

NEXUS

NEW TIMES MAGAZINE

Volume 4, Number 2 FEBRUARY - MARCH 1997

PO Box 30, Mapleton Qld 4560, Australia

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NEXUS MAGAZINE

Volume 4, Number 2
FEBRUARY - MARCH 1997

PUBLISHED BY
NEXUS Magazine Pty Ltd, ACN #003 611 434

EDITOR
Duncan M. Roads

CO-EDITOR
Catherine Simons

ASSISTANT EDITOR
Ruth Parnell

EDITORS' ASSISTANT
Richard Giles

OFFICE ADMINISTRATOR
Janine Carmichael

CONTRIBUTORS THIS ISSUE

Turan Rifat; John Fagan, PhD; Major George R. Jordan; David Guyatt; Dane Roubos, DC; Anthony M. Hansen; J. Bruce McBurney; Tom Kay; Alec Newald; Linda Moulton Howe; Maurice Chatelain

LAYOUT & DESIGN
Duncan M. Roads

CARTOONS
Phil Somerville

COVER GRAPHIC
Kauko Helavuo/The Image Bank

PRINTING

Warwick Daily News, Queensland, Australia

AUSTRALIAN DISTRIBUTION
Newsagents Direct Distribution

HEAD OFFICE - All Correspondence
PO Box 30, Mapleton, Qld 4560, Australia.
Ph: +61 (0)7 5442 9280; Fax: +61 (0)7 5442 9381
e-mail address: nexus@peg.apc.org
web page: <http://www.peg.apc.org/~nexus/>

NEW ZEALAND OFFICE - PO Box 34735,
Birkenhead, Auckland. Ph: +64 (0)9 416 7320;
Fax: +64 (0)9 416 7340

USA OFFICE - PO Box 177, Kempton, IL 60946-0177. Ph: (815) 253 6464; Fax: (815) 253 6454

UK OFFICE - 55 Queens Rd, East Grinstead, West Sussex, RH19 1BG. Ph: +44 (0)1342 322854;
Fax: +44 (0)1342 324574

EUROPE OFFICE - PO Box 372, 8250 AJ Dronten, The Netherlands. Ph: +31 (0)321 380558;
Fax: +31 (0)321 318892

ITALY OFFICE - c/- Avalon Edizioni, Piazza Mazzini 52, 35137 Padova.
Ph/Fax: +39 (0)49 912 6006

STATEMENT OF PURPOSE

NEXUS recognises that humanity is undergoing a massive transformation. With this in mind, NEXUS seeks to provide 'hard-to-get' information so as to assist people through these changes. NEXUS is not linked to any religious, philosophical or political ideology or organisation.

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Editorial

Many people these days recognise that the world is heading for a dramatic change. The poisoning of our air, our food and our water has brought humanity to the point where our children are about to inherit a very different world to the one we grew up in. The rise of the big economic trading blocs and the web of international treaties between nations, ensures that we are moving slowly towards a global society where real decisions are made by people whose names we never hear mentioned. Is this a deliberate conspiracy, you ask, or has the world just evolved this way as a result of plain old human nature?

You can imagine how often we are asked what we at NEXUS believe is behind the world being the way it is, and the direction we perceive it is heading. Is it the Illuminati, they ask, or the Zionists, the Vatican, the Fabians, the British, the Freemasons, the New Agers, the Nazis, the anti-Christ, the Communists, the CFR, the Bilderbergs, the Khazars, the multinationals, the CIA, NSA, MI6, the Greys, Andromedans, Sirians, Reptilians or the Draconians? My personal answer would have to be, "none of the above, yet all of the above". We all are responsible!

Sure, some of these groups wield enormous power, and I am sure they meet and plan mutually advantageous projects. I am sure they cooperate and compete with others of similar ilk. I'm also sure that they think big and plan a long way ahead. But unless you believe they are alien-cloned replicants, they are all human beings just like you and I, exhibiting on a large scale something which exists inside most of us, on a small but personal scale. Most of them justify what they do each night when they look in the mirror with the belief that "the end justifies the means". (I choose not to believe that the end justifies the means.)

They are few in number and rely totally on our support, which we give them every day. By this, I mean that we buy their products—we eat their junk food, we take their medicines and drugs, we digest their information, we react predictably to any given stimuli, we work in their businesses, governments and military, we use their services and facilities. We focus on TV, finding our perfect mate, sexual gratification, what we look like, paying bills; and all in all, we are kept so busy with social, personal and emotional survival that few of us want to consider the possibility that a few power maniacs may be behind it all.

Every single one of us therefore has the power to redirect where we spend our time, money and attention. If you feel you have no choices in these matters, look again! There are always choices.

Speaking of choices, this issue offers you the possibility, once again, to explore other points of view with regard to health, history and reality.

On the health front, we present you with information that offers you a choice of whether or not you direct your money towards the purchase of items including margarine and genetically engineered food. On the science front, we offer information on a couple of very interesting alternatives for supplying power, whether it be for the home, business or vehicle. On the history front, we look at how our perspectives have been coloured to suit a political and social status-quo. By this I mean that the people we are told were the 'bad guys' were probably no 'badder' than those pointing the fingers at them. On the 'reality' front, we present another perspective on our Earth's history, and some possible futures for your consideration, with the extract from Alec Newald's book, "CoEvolution" (soon to be published by NEXUS).

Lastly, we are pleased to announce a great line-up of speakers at our annual NEXUS Conference, to be held in Sydney during 24-25 May (see ad this issue). We look forward to meeting some of you there.

Meantime, I'll leave you with one of my favourite mottos:

"BELIEVE nothing, CONSIDER everything!"

Enjoy!

Duncan

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Letters to the Editor ...

Pet-Food Fears

Dear Editor: I have just finished reading the article on "Polluted Pet Food" [NEXUS 4/01] and I feel very sick. I also feel guilty that I included some bought pet-food in my dearly loved 'late' dogs' diets. If only I'd known about this.

I have one question: Do you know if this is going on in Australia?!

Any American who is still eating meat must be crazy, or is more likely 'in the dark'. It's disgusting!

Yours sincerely, Alex H., Birdwood, SA, Australia.

Astral Detection

Dear Duncan: I relate to you a lucid dream (that I call a partial rapture) that I had at 6.15 am on 19 June 1995. I found myself suddenly transported into some sort of secret research base. As to where it was, I do not know; it may have been Pine Gap, or perhaps Shoalwater Bay (I believe there is one there, also). It may even have been into one of the flying saucers themselves!

It was a semi-circular room, about seven metres diameter. The floor was covered with large, square, white tiles. The electrically-operated sliding door into the room was behind me, and a ramp led up out of the room so that the room was at a lower level than the surrounding corridors, which had small rooms (quarters) coming off them. In the room to my left were a few large 'box-shaped' objects in the centre of the room, that I immediately recognised as powerful computers. To my right, sitting at computer terminals, were a couple of personnel, casually dressed. I announced my presence: "Hi, guys," I said.

Immediately there was a state of panic, and a voice came over the speaker system, "Security breach: all personnel report immediately to control room." The door behind me opened and in walked a number of the research scientists who worked there, one of whom looked like one of my physics lecturers. "It's Dr Munro," I announced. They were stunned that I had breached their security. I was seized by

the 'astral safeguards', as you call them, and then I woke up and found myself back in my bed.

I immediately wrote down a summary of the dream, but I am recalling the rest of the details from memory.

Yours faithfully, Keith G., Geebung, Queensland, Australia.

Switched on by 'One Light'

Dear Duncan: I have been an avid NEXUS reader for many years and enjoy it immensely.

On your recommendation, I sent for the book, *One Light*, by Jon Whistler, which is advertised regularly in your magazine. I must say that I was somewhat wary of buying a book I hadn't previously thumbed through and examined prior to purchase. However, I am happy to report that my fears were unfounded.

I have read hundreds of new-age and other self-improvement and spiritual books and am delighted to advise that this book is certainly one of the best I have ever read.

Not only is it very entertaining (once you pick it up, you won't want to put it down), but, more importantly, it has a very powerful message which couldn't be more timely. This book explains some of the main reasons why the world is how it is and what is likely to occur in the immediate future. Then finally, to dispel any gloom, *One Light* gives us a powerful message of hope.

My sole reason for writing this letter is to state that I am an ordinary NEXUS reader with no axe to grind and, in the strongest possible terms I would urge everyone reading this letter to read this book as soon as you can get your hands on a copy.

Thanks, David W., Upper Mt Gravatt, Queensland, Australia.

Solar Energy Independence

Dear Editor: I would like to point out to your alternative energy readers why solar panels are so expensive, thus making photovoltaic systems largely uneconomical in power-grid-supplied areas.

So far as I can determine, all major solar panel suppliers are now owned or controlled by international oil companies.

We must all do whatever we can to avoid oil company investment and control of alternative energy systems. This is a very important area that your magazine and readers should follow up. Does anyone know more information about this subject?

Regards, Randal L., Highbury, SA, Australia.

PS: Great magazine. Please keep up the good work.

Pollution-Free Fuel?

Dear NEXUS: I went out in the backyard, mixed 1 quart water, 1 cup methanol, 1 tablespoon clear detergent (wetting agent), 1 quart naphtha, shaking well. The emulsion is called Gunnerman's Fuel—Patent No. 5,156,114, dated 1992.

My recipe is very crude but it did enable me to run my lawnmower without pollution to the air. After cutting three acres of grass I realised that weekend gardening could be poisonous-emissions-free. The power plant in Reno, Nevada and several city buses are running on this stuff. Nuclear power plants could be eliminated. Rudolph Gunnerman should be awarded the Nobel Peace Prize and all Aussies with or without chemical engineering backgrounds should be mixing up versions of this.

Final hint: I'm told that the 1996 patent is a better recipe, but I could not obtain it as my computer is not the latest.

Sincerely, Thor F., Maricopa, Arizona, USA.

PS: Wake up, humanity. We have no ozone left and serious ultraviolet light damage. In three years we will have massive crop failures. What then?

Maori Traditions Clarified

Duncan, *tena ra ko koe*: A comment on one paragraph of Richard Boylan's article [NEXUS 4/01], "Native Elders Reveal Extraterrestrial Contacts": what utter, unmitigated drivel!

The paragraph refers to one Mac Wiremu Ruka, "chief Spiritual Elder of all the Maori people of Aotearoa". This is surprising news to Kai Tahu (my tribe, the main South Island *iwi*). I suspect it is surprising news to every other tribe in the country. I

especially suspect it is surprising news to whatever *iwi* and *hapu* Mac Ruka belongs to.

"From the age of three, Elder Ruka was taught..." Tch, tch; real *tohuka* are fed information via *oriori*, etc., along with their mother's milk. Wee bit late in starting, eh?

"A special star alignment in 1988 told the old Maori Grandmothers..." Say what? Local *taua* and *kuia* scoff at this (and the *koroua* have quite a bit, mainly scathing, to say about it too).

"In a moving, candle-lit ritual..." My, my; *very* traditional!

This kind of crap has *nothing* to do with the very rich, complex and various religious, mythological and cosmological traditions of the New Zealand Maori. We don't have shamans *per se*, let alone a "chief Maori shaman".

To say the very least, this paragraph is a monument to human gullibility, and definitely induced scepticism as regards the rest of the article in this reader.

No reira, noho ora mai ra na.
Keri Hulme, Whataroa, Aotearoa/New Zealand.

Free-Energy Freedom

Dear Editor: In vol. 2, no. 18, p. 5, you indicated that NEXUS provides a starting point, but it's up to us readers to investigate further. I've done that for magnetic 'free energy' machines, and I think this is where our would-be masters, dedicated to lies and misinformation, are going to suffer a major defeat—hopefully the first of many.

Although a few such machines have existed and have been suppressed for decades, the turning point came several years ago when Japan began its own well-funded research programme. One result is US Patent No. 5,436,518, a magnet motor achieving 318% over-unity. Another is the motor of Y. Takahashi, a former Sony General Manager for Research & Development, mentioned in NEXUS, vol. 2, no. 25.

Within Japan, free energy has been openly disclosed at least since the Fuji television network aired its *Dream Energy* programme on 20 October 1993.

... more Letters to the Editor

NB: Please keep letters to approx. 100-150 words in length. Ed.

This showed the research involvement of Waseda and Meiji universities, Japan Science Research Laboratory, Sumitomo Aerospace, etc., and also that the Japanese are determined to achieve commercial reality for their machines.

When the now inevitable victory for free energy is won, we shouldn't forget all the other topics that so desperately need open and honest investigation—the remedy that our opponents fear above all else. When denial, misinformation, ridicule and abuse no longer work against free energy, no doubt they will try to separate it from these other topics—which they will still try to suppress. We mustn't let them get away with that!

Yours sincerely, Paul B., Wellington, New Zealand.

Spontaneous Connections

Dear Duncan: I am always most impressed by the high standard and diversity of the articles in NEXUS, although I am rarely moved to write to any magazine.

However, several phrases in "The Poltergeist Machine" article [NEXUS 4/01] leapt off the page at me: "fires started in unlikely places"; "metal became white-hot but did not burn any surrounding materials"; "flames have been produced and emitted from blocks of concrete"; and "the apparatus makes fire spontaneously in parts of the lab".

My mind immediately made the connection between these phenomena and spontaneous human combustion. Could it be that Hutchison has inadvertently found a scientific foundation for this phenomenon, also? If so, it makes his investigations seem rather more urgent in nature, bearing in mind the now apparently potentially fatal effects for those living in close proximity to these EM fields.

Yours sincerely, Joan B., Wigan, Lancs., UK.

Space: The Final Affront?

Dear Duncan: In early November '96, the world trembled and held its breath as a Russian-made rocket destined to travel to Mars malfunctioned and crashed back to Earth. The

world was told that it crashed somewhere in the South Pacific Ocean.

Every rocket that blasts off, whether it be American, Russian or Chinese, is armed with a self-destruct device to guard against the possibility that it may go out of control. Why wasn't the Mars rocket self-destructed shortly after it became apparent that it was going to crash back to Earth?

Could it be that the world is meant to believe that the Russian Mars probe has been destroyed, but in reality it was launched to conduct a secret mission? The Russians over the years have had a poor record in space exploration. One has to wonder now whether the Russian space exploration program is one big cover-up.

Regards, Ed G., Alexander Heights, WA, Australia.

Cable TV Conspiracy

Dear NEXUS: I attended a friend's gathering recently and met a very interesting man. I feel as though I have a responsibility to contact you.

This person has spent the last 20 years working in the US for one of the large TV cable companies. He started as a basic technician and moved up in classification and clearance level over the years and was technically trained by the company at various stages of his time there. He was one of the leading design technicians for the new cable technology when he left the company and moved here.

I had quite an in-depth conversation over the afternoon with this man as I am a studying electronics engineer and have Foxtel cable installed in my home. After several beers, the chap seemed to warm to me and then said something that initially confused me.

"I would never recommend any cable TV be installed in any of my friends' places."

I thought he might be referring to the mess they make or the escalating costs that suck you in over time.

"No, I mean I would never let anyone come anywhere *near* my house and lay cable all over the place. You're just asking for

trouble. Think about it."

This man witnessed the top-level cooperation between the cable companies and the government as part of a giant surveillance and information-gathering network. He was responsible for designing the new range of TV-top boxes that all cable systems employ as a junction 'decoder'. He said that all of these new junction boxes contain a tiny microphone inside and a black-and-white fisheye camera behind the clear plastic on the front, and that the cable has return channels included into its specification for sending these signals back to the carrier.

It is possible for them to tune in to any house with cable installed and listen in and see what is happening at any particular time. He said that he had seen it used in the US for detection of drug dealings and talk of tax evasion without the user's knowledge, and as a way for the government to "monitor and track its society's real movements and thoughts". He said that they gave away "free connection" in a sort of competition scam to people they wanted to monitor.

He said he saw the system abused on a continual basis, and that in the early days he was pushed and ordered around by "men in black overcoats" who would march into his lab, asking him to access confidential records and taking his schematic drawings. After complaints by his department in regard to this behaviour, it abruptly ceased. Several months later, whilst modifying the system, he discovered that an outside line had been installed, without his knowledge, with direct access to the master computers to somewhere that was "classified".

All this sent my mind racing, but it did make sense. One time, when I wished to have some extra channels turned on for viewing, I rang up Foxtel. The receptionist said it would take a day to turn on, but, as I wished to watch a programme that started in five minutes, I asked if it was possible. She put me on hold and then transferred me to another section.

The following conversation

gave me shivers and left me wondering. A guy answered and reeled off my name and address. He then asked which TV I wanted the channel on—the downstairs lounge room or the upstairs bedroom! He then asked me to change to the channel in question whilst still on the phone. I missed the button on the remote and landed on one channel away. He then said, "No, not 25, channel 26." He knew which channel I was watching! He could also theoretically then know which programs I like watching. For all I know, they could have records of it all. Very scary.

The guy at the barbecue told me to use black gaffer tape on all the clear plastic to block the camera sight. He also said that if you knew where to look you could open up the box and take out the microphone—and that he has had to do this a few times. He is coming around next week to do it for me. I won't feel safe to speak until he does.

Please warn your readers of this potential invasion to their privacy. The quickest way to protect yourself immediately is to unplug the 'in' cable from the back of the box when you're not using it. This should give *them* 'fuzzy' reception! Don't be surprised if you get a knock at the door by a cable guy to fix your "faulty cable" problem if you do!

Darren G., Victoria, Australia.

In Praise of Freemasons

Dear Friends: I'd like to defend a much-maligned group of people. Freemasons have been criticised by conspiracy theorists, but I'd like to stick up for them.

I worked in a masonic office for over six years in the 1980s and I have never met a nicer, kinder group of men than those Freemasons. I am not stupid, and if they had all been busily conspiring I know I would have detected something. But, on the contrary, I miss them very much now and have happy memories of the atmosphere of healing, peace and stability which permeated their building and their work.

All kind thoughts, Elizabeth S., London, UK.

21 NUCLEAR REACTORS DUMPED AT SEA

The extent and the precise locations of the former Soviet Union's nuclear pollution may forever remain a mystery.

In the 1950s, the effluent from the nuclear-weapons factory near Chelyabinsk was dumped into the River Techa and ended up in the Arctic Ocean. Between 1964 and 1986, some 7,000 tons of solid radioactive waste (plutonium is radioactive waste) and 1,600 cubic metres of liquid waste was pitched into the Barents and Kara seas from the base in Murmansk which serviced the Soviet fleet of nuclear-powered naval and merchant ships.

Russia's President Yeltsin ordered his top environmental advisor to produce a report on the matter. This report was released in March 1993.

The Yablokov report states that the Soviet Union dumped an estimated 2.5 million curies of radioactive wastes in Arctic waters. This included 16 nuclear reactors (a Norwegian environmental group, Bellona, has identified 21 nuclear reactors, nine still containing their fuel rods) dumped in the shallow waters of the Barents and Kara seas, and the reactor from the nuclear-powered icebreaker, *Lenin*, sunk in 1967.

An entire nuclear sub was deliberately



sunk after an accident in May 1968. In 1989, another nuclear submarine, the *Komsomolets*, sank 300 miles off Norway, with the loss of 42 sailors. It went down with two nuclear warheads.

Finally, the Russians were dumping unprocessed nuclear waste into the Sea of Japan. As late as October 1993, the Russians confirmed that one of their ships discharged 900 tons of radioactive water from scrapped nuclear submarines.

While Russia acknowledges that dumping nuclear waste into the ocean could be harmful, Moscow has warned the international community that it has run out of

places to store the waste on land, and, if financial aid is not forthcoming, Russia will have no choice but to resume dumping it into the sea.

The first signs that there could be trouble on the horizon came in early 1993 when seals in the White Sea and Barents Sea were found to be dying from blood cancer (leukaemia).

Waste water from naval and civilian reactors was also dumped by special ships which diluted radioactive liquid with seawater. In fact, seamen would cut holes in the sealed containers if they would not sink. It is believed, according to the Yablokov report, that Russian nuclear submarines are continuing to dump liquid radioactive wastes at sea for lack of on-shore storage and reprocessing facilities.

So far, Russia has saved an undisclosed amount of money by dumping the waste instead of having to build and operate expensive storage/recycling facilities.

A subsurface plume of pollution from Lake Karachai, discharged from the Mayak facilities, is seeping towards the nearby Misheliak River at a rate of 80 metres per year and will soon reach the river. This represents nearly 50 times the radioactivity of the wastes dumped in the ocean.

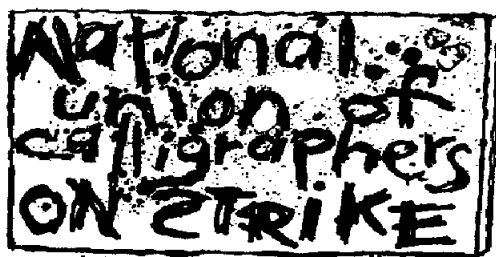
The US Congress appropriated \$10 million to the Defense Department to organise a program for rapidly assessing the threat from the dumped Soviet wastes. However, America also owns some loaded nuclear reactors lying on the ocean bed.

(Source: via the Internet, <http://gurukl.ucc.american.edu/TED/ARCTIC.HTM>)

COLGATE PAYS OUT FOR FLUORIDE-RUINED TEETH

Fresh calls to end fluoridation of water are to be put to the UK Government by a group of MPs led by Sir Ivan Lawrence, the Conservative member for Burton-on-Trent. Their action follows a decision in November 1996 by the toothpaste manufacturer Colgate-Palmolive to make a 'goodwill' payment of £1,000 to a 10-year-old Essex boy suffering from dental fluorosis, a condition in which tooth enamel is mottled by fluoride.

Sir Ivan, who has campaigned against fluoride for years, said: "This decision



puts the issue back on the map. The pendulum is now swinging against fluoride and I believe it is inevitable that we shall stop fluoridating water before long."

He said there was now substantial evidence that fluoride was harmful to health and he was drawing up a report to present to the government, showing that it did more harm than good.

Julian Middleton, a Nottingham-based solicitor acting for more than 200 children with fluorosis, said the payment could help families in their battle for legal aid. "We regard it as extremely significant—albeit it has been made without liability. Fluoride is one of the most poisonous substances known to man. Experts say it is a cause of fluorosis, yet there is nothing to say what is a safe dose for children."

The campaign against fluoridation of water supplies has been helped by documents recently declassified by the US Government, showing that scientists had evidence in 1944 that fluoride could cause confusion, drowsiness and listlessness. The discovery is believed to have been made at an atomic weapons base. Further research was ordered but then stopped six months later.

The papers were unearthed by Dr Phyllis Mullenix, a toxicologist at the children's hospital in Boston, after carrying out research on the toxicity of fluoride in rats, which suggested it accumulated in the brain and could lead to a lower IQ.

(Sources: *The Sunday Telegraph*, UK, 24 November 1996, *The Daily Telegraph*, UK, 25 November 1996)

EDISON EXPLAINS INTEREST

The American inventor Thomas Edison had this to say about the monetary system, while discussing the Mussel Shoals Dam electric power project:

"People who will not turn a shovel full of dirt on the project, nor contribute a pound of material, will collect more money from the United States than will the people who supply all the material and do all the work. This is the terrible thing about interest..."

"But here is the point: If the nation can issue a dollar bond, it can issue a dollar bill. The element that makes the bond good, makes the bill good, also. The difference between the bond and the bill is that the bond lets the money-broker collect twice the amount of the bond and an additional 20 per cent. Whereas the curren-

cy—the honest sort provided by the Constitution—pays nobody but those who contribute in some useful way.

"It is absurd to say our country can issue bonds and cannot issue currency. Both are promises to pay, but one fattens the usurer and the other helps the people. If the currency issued by the people were no good, then the bonds would be no good, either. It is a terrible situation when the government, to insure the national wealth, must go in debt and submit to ruinous interest charges at the hands of men who control the fictitious value of gold. Interest is the invention of Satan!"

(Source: *The Spotlight*)

WORLD GOVERNMENT BY THE YEAR 2000?

The UN-funded Commission on Global Governance has completed its three-year study and has now publicly announced its plans to implement "global governance" by the year 2000.

Henry Lamb, of the Environmental Conservation Organisation, predicts that the United Nations will convene a World Conference on Global Governance in 1998 "for the purpose of submitting to the world the necessary treaties and agreements for ratification and implementation [of world government] by the year 2000."

Writing in a recent issue of *Media Bypass* magazine, Henry Lamb warns that global governance, as envisioned by the UN and its obliging Commission, "would be a catastrophic act of violence, resulting in the loss of national sovereignty, property rights, individual freedom, and all hope of achieving personal prosperity." He charges that the new "Earth ethic" endorsed by the Commission "ignores the fundamental values on which America was founded and promotes instead a form of global socialism." Welcome to the New World Order!

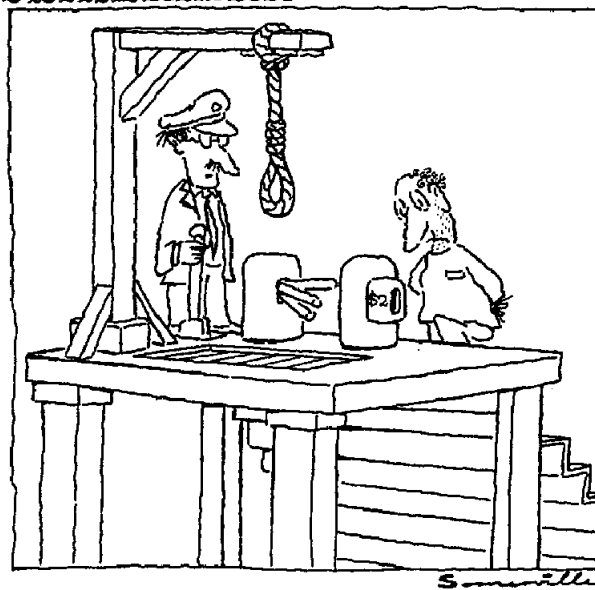
"The Commission intends for the United Nations to correct the injustices in the world

by taking wealth from the rich and giving it to the poor. To achieve this massive redistribution of wealth, and take virtual control of all the world's resources, a number of specific structural changes are proposed for the United Nations system," reports Lamb. "The Commission's recommendations would consolidate the power of the United Nations into the hands of a very few individuals," he observes. The UN Trusteeship Council would assume control of the "global commons", which is defined to include everything from the depths of the ocean floor to the farthest reaches of the atmosphere.

Lamb points out that "the Commission calls for the creation of a new Economic Security Council" whose most important duties would be "to establish independent funding mechanisms for the United Nations system [and] to enforce environmental treaties by initiating trade sanctions and levying fines or withholding funding to nations deemed to be in non-compliance with treaty provisions." He explains that "This is the UN body which would collect the wealth from developed nations and redistribute it to developing nations."

A UN standing army is also on the agenda, with the UN Secretary-General serving as Commander-in-Chief. Perhaps most ominous of all, says Lamb, are plans for the UN to "expand its authority and assume responsibility to act in behalf of people within the borders of sovereign

PRIVATISATION



states with or without the request or permission of the state."

"Many of the recommendations published in this report have been underway for several years," observes Henry Lamb. "The now-published time line for full implementation suggests that UN strategists are confident that the world is ready to accept global governance."

(Source: *Behind the Headlines*, 8 December 1996, *America's Future, Inc.*, 7800 Bonhomme, St Louis, MO 63105, USA; phone (314) 725 6003; web site: <http://accessus.net/~eamiller/af/>)

CAN DNA FROM GENE-ALTERED FOOD BE PASSED ON?

The 4 January 1997 issue of *New Scientist* magazine carried an interesting editorial criticising the withholding of information pertaining to the safety of allowing genetically engineered food (GEF) onto the market.

More importantly, the same issue ran a news item which gives opponents to GEF some very scary ammunition.

It is assumed that the DNA from the genes of GEF is destroyed in the stomach. However, it has recently been shown that DNA fed to a mouse can survive the gut and pass into cells in the body! This is a totally unexpected result, and should send shivers down our collective spines.

Walter Dörfler, of the University of Cologne, made the above announcement at the International Congress on Cell Biology in San Francisco in December 1996.

While textbooks say that DNA in food is digested and destroyed, Dörfler found that a genetic material from a bacterial virus called M13 survived to emerge in faeces.

(Source: *New Scientist*, 4 January 1997)

MEASLES JABS LINKED TO AUTISM

The UK Department of Health is under pressure to fund research into the safety of childhood vaccines, as evidence continues to mount of a link between the injections and autism.

There have already been concerns about vaccines causing other forms of brain damage, but now, one of the world's leading experts on autism is backing parent groups in their demands for studies to be done on the vaccination risk.

Dr Bernard Rimland, director of America's Autism Research Institute, said the idea that vaccines could be causing the conditions was unpopular with the medical establishment. "But there is now no doubt in my mind that something serious is happening," he said.

A class action lawsuit, being prepared by Dawbarns Solicitors on behalf of vaccine-damaged children, includes 169 cases allegedly linked to measles, mumps and rubella inoculations.

Kirsten Limb, of Dawbarns, said there had been another 200 enquiries from parents fearing their children had developed autism as a direct result of vaccinations.

(Source: *The Sunday Telegraph*, UK, 24 November 1996)

SCIENTISTS ADMIT VACCINES ARE A MYSTERY

Two hundred years after Edward Jenner first immunised people against smallpox, the function of a key ingredient of modern vaccines remains an almost total mystery. It has been called "the immunologist's dirty little secret".

Vaccines are supposed to work by giving the immune system a sneak preview of future enemies in the form of weakened or killed disease-causing micro-organisms, bits of those micro-organisms or even pieces of their DNA. A quick look at this pale imitation, called an "immunogen", is enough to get the immune system stocking up its armouries ready to retaliate when the micro-organism strikes for real.

However, the vast majority of vaccines don't work unless they also contain something called an "adjuvant"—a fancy-sounding name for a non-specific mix of some very weird ingredients.

At one time or another, the mysterious adjuvants have included any one of a list of suspicious-sounding substances, including detergent, oil and water, aluminium hydroxide, dead bacteria that have nothing to do with the disease the vaccine is supposed to protect against, bits of those dead bacteria, or some mix of these.

Vaccines based on whole viruses, such as the oral polio vaccine, can wake up the immune system single-handedly. But all the bacterial vaccines, and the more modern viral vaccines (such as the hepatitis B one) that for safety reasons use only parts of a virus, are doomed to failure without an adjuvant.

The adjuvant used in most vaccines administered to children is alum, or aluminium hydroxide.

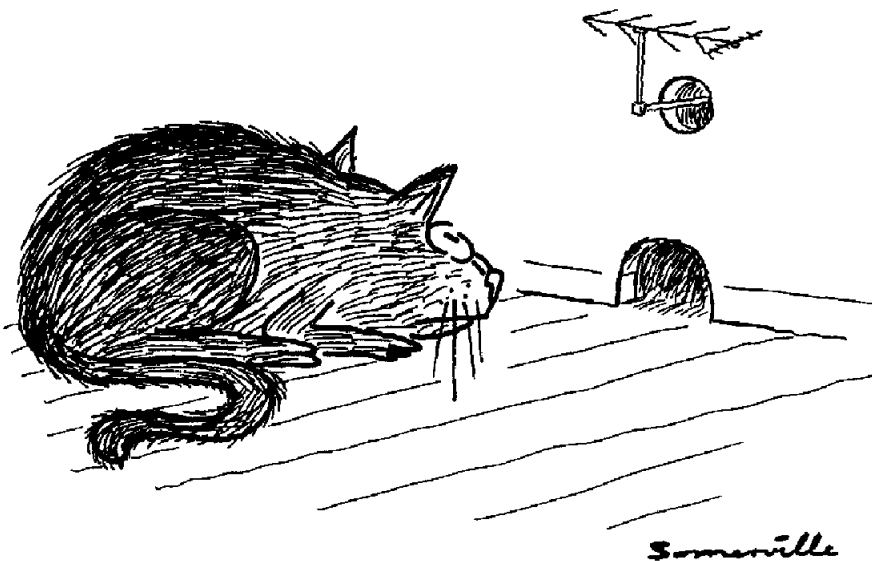
(Source: *New Scientist*, 2 November 1996)

URI GELLER VINDICATED

A man seeking a long-lost submarine learned the cost of ignoring the advice of Uri Geller, the UK-based psychic, when he spent more than £1 million looking in the wrong place.

Eight years ago, Geller pinpointed the exact location of a submarine sunk more than a century ago. But William Scanlan-Murphy, sceptical of Geller's abilities, chose to ignore his advice and instead financed a fruitless search of an area 15 miles west of the actual location.

Eventually he gave up, believing the wreck had been destroyed. It was only



when a fishing trawler snagged its nets on the *Resurgam*, the world's first powered submarine, that the accuracy of Geller's advice emerged.

It was in 1988 at a charity function in Leeds that Geller had been shown a sea chart covering 800 square miles and had indicated the exact spot where the *Resurgam* was eventually found.

(Source: *The Sunday Telegraph*, UK, 10 November 1996)

LANDMARK ORDINANCE ON PESTICIDES

The San Francisco Board of Supervisors passed one of the toughest pesticide ordinances in the US on 15 October 1996, providing increased protection for public health and the environment from exposure to dangerous pesticides.

The new legislation immediately bans the worst pesticides, and will ban all pesticide use by 2000. It provides for an Integrated Pest Management program specialist to work with City employees in the transition away from toxic pesticides.

The ordinance also requires a four-day notification to be given of pesticide use prior to spraying, and improved reporting of any pesticide use.

(Source: *Journal of Pesticide Reform*, vol. 16, no. 3, December 1996)

NEW THEORIES ON DEMISE OF TWA FLIGHT 800

A document about the fate of TWA Flight 800, posted on the Internet by a high-level official "inside the government", hit the headlines last November.

The document alleges that "TWA Flight 800 was shot down [accidentally] by a US Navy Aegis missile fired from a guided missile ship which was in area W-105, about 30 miles from where TWA Flight 800 exploded."

Several reliable eyewitnesses to the explosion of 17 July last year, reported seeing an orange streak of light descending toward the aircraft—which has led to speculation about a missile being responsible.

However, a new theory contends that the "streak of light" was an "electromagnetic-temporal ribbon", created in conjunction with several top-secret government scientific experiments involving warping the atmosphere with high-frequency waves.

(Sources: *The Australian*, 11 November 1996; Internet newsgroups: *usenet.alt.conspiracy*, 20 December 1996)

THE WHO, THE FDA, THE CODEX & THE CARTEL The Threat to Freedom of Choice in Healthcare

On 4 December 1996, the World Health Organization's Collaborating Center for Drug Monitoring announced the development of PharmaPrinting technology, and announced a worldwide effort to standardise information about herbal medicines, working with the University of Exeter and the Royal Botanic Gardens in the UK. Several other individual international experts are involved; and other countries, notably South Africa and Kenya, are starting programs that link with WHO's.

In September 1996, PharmaPrint obtained the first patent for a multi-molecule herbal medicine that has immune-stimulating properties in laboratory tests. It is derived from mistletoe.

In October 1996, I attended the 20th meeting of the Codex Alimentarius Commission's Committee on Nutrition and Foods for Special Dietary Uses. This horrendous German proposal, that threatens to become the International Reference Standard under both NAFTA and GATT, advanced from step 3 to step 5 like a knife through butter, moving it dangerously close to finalisation at step 8, when the committee meets again in Bonn during 21-25 September 1998. This German proposal threatens to destroy the dietary supplement industry, enabling the pharmaceutical industry to take over all natural products as expensive, patented drug analogs.

At the October 1996 meeting, the Canadian delegate, Dr Mary Cheney, initially backed off from a proposal that a negative list be created to ban the sale of many herbs from international trade. This proposal was first made at the Third Session of the Codex Collaborating Committee for North America and the South-West Pacific at a meeting in Vancouver in 1994, where Canada submitted a report, "Sale of Potentially Harmful Herbs and Botanical Preparations as Foods".

Cheney initially made a big show of backing off from the 'negative list' proposal, citing the "outrage expressed by consumers" as the reason, but then, a few days later toward the end of the meeting, she very sneakily attempted to reverse this position by making a motion that a "Special Panel" be formed amongst FAO/WHO personnel to address the issue of whether or not to form a negative list for herbs.

Suzanne Harris, JD, of the Law Loft, with whom I work closely, predicted months ago that this would happen. Harris predicted that a shell game would ensue in which the drug cartel would attempt to shift the regulation of herbs and dietary supplements away from the Codex Commission—where they are at least being regulated as "Foods"—and move them under WHO jurisdiction where they would be regulated as "Drugs".

What Dr Cheney did at the meeting was to begin this shell game. Her proposal was quickly seconded by Dr Beth Yetley of the US Food & Drug Administration, despite the fact that she totally failed to consult with anyone else in the US delegation. Her hand just shot right up there to second Cheney, and, following her, the German and French delegates quickly raised their hands as well. What we are witnessing here is nothing less than a con job on a global scale.

Americans, and people in other countries, are urged to let Dr Cheney know what they think of her action, and should send copies of these letters to local Senators, Congressmen and Members of Parliament so that this can be nipped in the bud.

I urge you to call and discuss this gross attack against consumers of supplements with:

1. Dr Mary Cheney, Chief, Nutrition Evaluation Division, Food Directorate, Health Protection Branch, Tunney's Pasture, Postal Locator 2203A, Ottawa, Ontario K1A 0L2, Canada; phone +1 (613) 957 0352, fax (613) 941 6636.

2. Dr Elizabeth Yetley, Director, Office of Special Nutritionals, HFS-45, US Food and Drug Administration, 200C St S.W., Washington, D.C. 20204, USA; phone +1 (202) 205 4168, fax (202) 205 5295.

Be sure to send copies of your faxes and letters to your Senators, Congressmen and Members of Parliament.

John Hammell, Political Coordinator
Life Extension Foundation, USA

(For more information, and to get a copy of the Codex Report from Bonn, visit the Life Extension Foundation's website at: <http://www.lef.org>)

The *ESP* of *ESP*ionage

It is suspected that sections of the US military and security agencies have been using synthetic telepathy against 'internal subversives' for at least a decade.

If these networks continue to operate unchecked, soon our thoughts may no longer be our own!

Part 3

by Turan Rifat ©1996-97

Paranormal Management Systems
PO Box 2749
Brighton, Sussex BN2 2DR, UK
Phone: +44 (0)1273 690424
Web site: <http://www.interquest.compulink.co.uk/pms/index.htm>

DEMONS AT DIMENSIONAL DOORWAYS

We are surrounded by a sea of biophysical fields, and the so-called collective unconscious is merely a merging of the biophysical fields of humans and other life-forms. But within this biophysical biosphere may exist remnants of deceased individuals' biophysical fields, which channellers are able to access in contacting the departed or spirit guides. It may also be that, within this biosphere, the biophysical fields of different species merge to form group minds; for example, of the tiger or the wolf. Shamans and witch doctors throughout history have reported these phenomena, but the scientific knowledge to comprehend what might be going on has been absent until today.

Within this framework, it is possible that aliens from other dimensions are able to gain access to our biophysical biosphere by tapping into the energy given off in human sacrifices, black magic rituals and suchlike, thus allowing malevolent aliens—the so-called demonic entities—into our realm. A study of this phenomenon indicates it could be one of the principal paranormal causes of world wars.

It may be no coincidence that, in their systematic studies of paranormal phenomena, some Theosophists and initiates of the Order of the Golden Dawn could have tampered unknowingly with forces that opened gateways to other dimensions, thus enabling malevolent biophysical fields to enter our milieu. Once here, these malevolent demonic entities could easily have entered the minds of the European leaders, provoking them into starting the First World War that would slay so many young men, and releasing so much life-force and negative emotion upon which they could feed.

Secret US research into electronic gateways to other dimensions may also be enabling entities to enter our continuum with a view to poisoning the consciousness of humanity in preparation for war.

PARANORMAL RESEARCH TECHNIQUES

Throughout my research I have become aware of how useful remote viewing (RV) can be in gaining information on topics that have proved impossible to analyse by any other method. [An introduction to the science underlying RV and remote mind-control technology (RMCT) is published in NEXUS, vol. 3, no. 6.]

Having developed basic do-it-yourself guides for beginners in the RV field, I found that there was still an accuracy problem with these simple methods. So I set up the company, Paranormal Management Systems, to concentrate on the scientific study of RV and the development of techniques that would far outstrip most military methodologies in the West. Unfortunately, most RV practitioners have not had access to these new techniques and are utilising controlled remote-viewing methodologies as espoused by the Americans.

Any group of researchers willing to use the paranormal as an aid to investigation can make use of techniques such as remote viewing, telepathy and group-augmentation effects. So what are the steps involved?

Instead of switching off the brain stress system to inculcate the theta state of consciousness (the method I use in PMS training²⁶), a much simpler technique can be used—involving listening to baroque music to relax the brain for RV or telepathic operation. This baroque music technique was developed by the Bulgarians in their Suggestology Super Learning parapsychology training courses.²⁷ They found that the ordered, rhythmic nature of this music entrains alpha waves in the listener. It is much less efficient than the PMS training, but for beginners it is relatively easy just to listen to baroque music as a prelude to practising RV or telepathy.

GROUP-AUGMENTED RV & ESP CAPABILITIES

Researchers using RV to investigate UFOs, for instance, need to work together in groups for best results.

Firstly, the group decides on one particular target, be it an alien planet, military site, etc., and each member then tries to obtain RV data on the target. This is done separately so that none of the remote viewers gets a chance to discuss findings while in the process of remote viewing.

Once they have completed their RV, they look at all the data the group has acquired. The common characteristics of what they viewed remotely would be the details they should then concentrate on, because if all or most of the remote viewers saw the same thing independently, this would indicate that their RV was accurate.

A similar method can be used by ESP/telepathy research groups, whether they be involved in psychic questing or tapping into hidden knowledge in the collective unconscious.²⁸

So, by applying this method of statistical analysis to the group's data, accurate RV or ESP/telepathy episodes can be targeted, and meaningful results can be obtained even if any one individual's RV or ESP/telepathy capability is inaccurate. Consequently, the success that each individual achieves within the group will provide positive feedback and improve individual RV capability by a mechanism analogous to the 'hundredth monkey' effect—the learning of new habits at a distance with no physical contact. More on this shortly.

But let us return briefly to the work of Dr Jessica Utts of Stanford University. Through her statistical analysis of the results of US military RV tests she found that the RV effect was slightly greater than chance, thus proving that RV is indeed a real phenomenon.²⁹

European remote viewers are likely to be practising similar RV methods to the Americans, so they need to use a technique to filter out noise from the RV signal. By remote viewing a target firstly in an independent manner within a group and then going over the results as a group, much of the RV noise can be filtered out. This amplifies RV accuracy by augmenting the signal-to-noise ratio. So, using multiple remote-viewers to give a large database, non-correlated RV noise can be cancelled out by cross-correlating results—thus ignoring spurious data not noted by other members of the group and, instead, concentrating on details that everyone viewed remotely. This means that meaningful results can be gleaned by using group-augmented RV, even though the RV effect may only be slightly greater than chance.

As a caveat, PMS training methods (as well as the drastic techniques used by the Russians) can dramatically improve RV or ESP/telepathic efficiency. In my research I have found that groups of people who remotely view the same site at the same time actually amplify their RV capabilities and boost their RV efficiency. This is due to a merging of the biophysical RV-state functions of the fields involved.

I have mentioned the 'hundredth monkey' effect, where the more people practise a 'meme' (habitual action or activity), the easier that action becomes for the group. It is a well-known phe-

nomenon that when people or animals repeat the same meme, there is a threshold after which that meme becomes habitual to the race or species. The best example is the Japanese monkey that learnt to remove sand from its wild rice by washing handfuls of this sandy rice in the sea. Other members of its troop copied this meme. Once a hundred or so of its peers had learnt this action, the meme miraculously appeared in other monkey troops on other islands far removed from the original progenitor of this meme. The hundredth monkey phenomenon is a well-known anecdote about the spreading of memes by remote influencing.

My discussion of biophysical fields and how they can interact with the fields of other members of the species would seem to indicate that when a threshold number of biophysical fields learn a new meme, the intent for that meme is spread by spontaneous telepathy. This means that remote viewing is difficult at first, but it becomes easier as more people practise it.

A similar effect is demonstrated with ESP and telepathy.

Group-augmented ESP and telepathy can dramatically boost latent psi-talent in the individual and result in a growth of paranormal abilities as the biophysical field of the individual merges with the group and is amplified in the process. This amplification process of the individual's biophysical field is then carried over to the individual upon the return of the biophysical field to the single state.

Group amplification of biophysical fields enables the individual biophysical field to develop from morphogenetic functioning, through to primary consciousness, and hence to high-order consciousness where ESP/telepathic functions are accessible.

When the person's biophysical field leaves the group mind, it loses its high-order consciousness, but there is an augmentation of its natural consciousness. Continued practice of group-augmented ESP and telepathy leads to an acceleration of this development, as it is enhanced by the group mind.

In this way, individuals can achieve the maximum capabilities of their psi genes in the order of months rather than years. Furthermore, the genome can be

changed by biophysical field effects, so the group-augmented biophysical field can be used to change the group's genome to develop new psi-genes. It can also be used to enhance paranormal psycho-neuro-immunological effects in the individual, and thus can aid group members in achieving healthier, longer lives.³⁰

Indeed, any group of people can use RV or ESP/telepathy as a tool in their own research effort, or to cause physiological changes beneficial to health and longevity.

This is the first time these points have been mentioned outside of superpower military research facilities and the multinational research being undertaken by Sony.

US MILITARY INTEREST IN SYNTHETIC TELEPATHY

An article in *New Scientist* has described how Japanese scientists are beginning to read P300 brainwaves electronically, with a view to developing computers to scan the brain for verbal content.³¹ At present, this research has been able to match up only

Indeed, any group of people can use RV or ESP/telepathy as a tool in their own research effort, or to cause physiological changes beneficial to health and longevity.

a handful of words that pass through the subject's brain.

There has been much anecdotal reference to a super-secret group in the US military which has developed the means of electronically scanning the brain to read the subvocalisation that passes through a target's mind. Synthetic telepathy, or electronic brain-scanning, would be a valuable tool for the US military. However, since the fall of the Soviet Union, it fears its own population more than foreign enemies.

Lacking sophisticated telepaths developed by the Russians with a gamut of drugs, brain surgery, invasive electronic stimulation, amplification and psychotronic generator interfaces, the US military is rumoured to have perfected synthetic telepathy.

The electromagnetic signals in the brain are of a very weak intensity, but, in synthetic telepathy, only the signals associated with subvocalised thought are of interest. The areas of the brain associated with speech are the Broca, Wernicke and supplementary motor areas. So, by connecting these parts of the brain to a computer via electrodes, highly sophisticated computer systems can decode an information stream and read subvocalised thoughts in the brain.

It is well known that the National Security Agency (NSA), the largest of the US state security organisations, possesses the most advanced computer systems in the world. If Japanese medical research is already detecting a few key-words just using P300 EEG signals, then it is very likely that the NSA can read substantial portions of subvocalised thoughts. If the alleged transfer of alien technology from the so-called "Greys" is factored in, then full comprehension abilities may already have been achieved.

In the article titled "Covert Operations of the US National Security Agency" [NEXUS, vol. 3, no. 3], the author, John St Clair Akwei, makes mention of EMF Brain Stimulation for Remote Neural Monitoring (RNM) and Electronic Brain Link (EBL) technologies. Such electronic RMCT has been in development since the *MKULTRA* program of the early 1950s, and, in fact, the US military has been using RNM since the early 1980s.

It is alleged that the Kinnecome Group at the NSA's Fort Meade is deploying this RMCT against US citizens on a grand scale. Another group at Fort Bragg is alleged to be using synthetic telepathy and electronic RMCT to augment the capabilities of Green Berets involved in their program. One of the aims of the research may be to remove conscience in the soldiers so that they may be better equipped for expunging internal 'subversives' such as militia group members.

REMOTE MIND-CONTROL TECHNOLOGIES

My research into biophysical RMCT has enabled me to discover the principles by which this electronic RMCT could be made to work. It also appears that so-called 'alien technology' has not been needed in the development of synthetic telepathy.

For synthetic telepathy to be effective against a targeted 'subversive', it has to be usable without 'controllers' physically having to place electrodes on the target's head or implants in the brain. So, US military personnel may first have developed the use of masers, and other radio-fre-

quency (RF)/microwave devices that carry ELF audiograms, to interfere with the brain's motor areas at a distance. They might have achieved this by destructively interfering with the motor neurone signals (rather like the systems used to generate real-time replicas of the noise made by a car engine, but out of phase, so cancelling the roar of the motor by destructive audio interference), or by just simply swamping the brain with the 10-Hz bioelectric resonance signal associated with motor impulse coordination, which could induce paralysis in the victim.

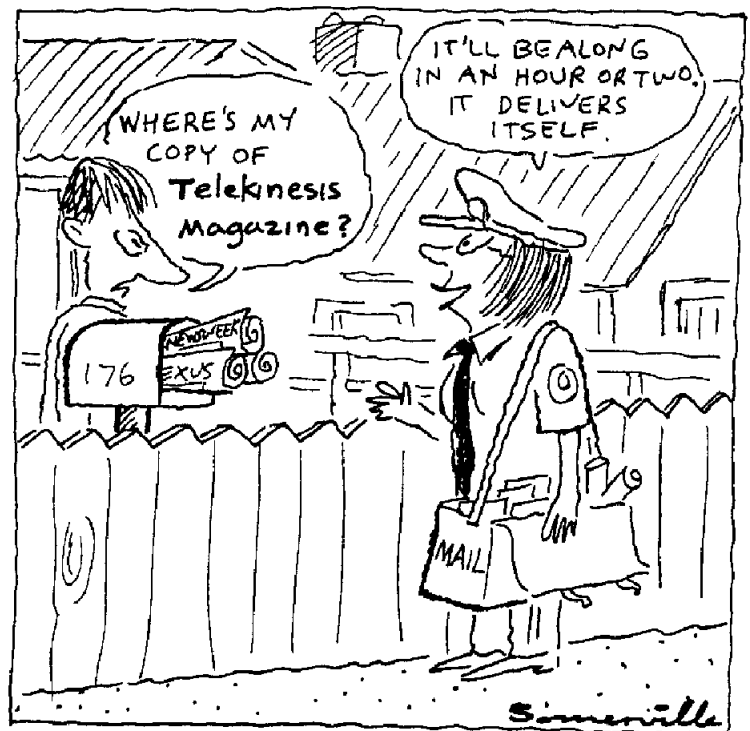
In the event of being detained, a subversive might then be subjected to a crude form of synthetic telepathy involving electrodes being placed on his/her head. Short-term-memory brain-wiping technology would then be applied, combined with ELF audiograms that inhibit calcium efflux in the brain, with the result that the prisoner is unable to remember what has happened to him. The next step would be to implant microelectronic devices in the prisoner's brain, in order for behavioural control and synthetic, telepathic, subvocalised control signals to be transmitted directly to the brain, bypassing the ears.³²

However, it must have become clear to the US military that some technique for effecting synthetic telepathy from a distance would be a more effective option.

The military may have found an opportunity to test and deploy its primitive physical synthetic telepathy technology, using as a smokescreen a worldwide cover story about alien abductions (even if they are in fact really going on). In any case, these alien abduction rumours have an added advantage in that anyone abducted by the US military for interrogation or experimentation would never be believed!³³

Deployment of new technology incorporating low-frequency

Synthetic telepathy requires techniques for scanning the specific brain emissions given off when the targeted victim subvocalises.



microwaves and RF is at least a decade old. Security personnel can use it to scan through bodies and walls like X-rays,³⁴ and see and track a target victim at home. But once they can see inside that person's head, they can conduct computer-controlled targeting by firing pulsed-frequency masers at specific brain centres. ("Maser" is the acronym for "microwave amplification by the stimulated emission of radiation".) This type of targeting is feasible considering the sophisticated computers in the NSA's possession.

Synthetic telepathy requires techniques for scanning the specific brain emissions given off when the targeted victim subvocalises. The techniques must be able to detect the 15-Hz, 5-milliwatt auditory cortex brain emissions that are linked with sound that bypasses the ear; the ELF frequencies that are linked with the excitation potentials in the brain that are associated with subvocalised thought; and EEG signals, such as the P300 signals mentioned previously.

The main problem with scanning these brain emissions is that the environment around the target contains a vast background EM noise that swamps the brain's tiny 5-milliwatt signals. At a distance it is impossible to fix a detector on the 15-Hz-centred window of ELF signals or the P300 emission band unless the low-level signal can be extracted from the noise.

My interest in this subject arose from my research in augmenting weak RV signals. As described previously, by using group-augmented RV, weak information signals can be picked out from the much larger background noise because the noise affects each remote viewer in a different way. However, each remote viewer detects aspects of the same weak RV signal in the same way.

This method of using many detectors to read parallel signals of the same source can be used to pick out very weak signals of interest, buried in a sea of random noise, because the same weak signal is detected by all the receivers. Cross-referencing the multiple signal returns from all the receivers, and looking only for identical signals, allows a very weak signal to be detected from the background noise.

Dr Ross Adey, at Loma Linda Veterans Administrative Hospital in California, discovered that the best method for getting an ELF signal into a human brain is with pulse modulation of a high-frequency field.³⁵ By firing ELF pulse-modulated masers, which can scan up and down the window of frequency emissions given off by subvocalised thought, interference effects can be measured in the maser beam.

The targeted victim's ELF brain emissions may interact constructively or destructively with the pulsed-frequency maser carrying ELF in the ELF window associated with subvocalised thoughts. If out-of-phase converging pulsed masers are fired at a victim's brain or brain centre, the out-of-phase ELF modulations of the masers cancel each other out by destructive interference. Thus, no resonance effects in the brain are established to perturb the brain emissions of subvocalisation.³⁶ Since the converging ELF-modulated masers are affected by low-level emissions in the target's brain, shifts in the ELF-pulsed signal going into the brain can be detected.

A simplistic version of this would be to direct a laser beam at a window in the targeted person's home. The vibrations in the window cause modulations in the laser that can be converted into electrical signals and hence into sound.

In RMCT (pulsed ELF-audiogram-modulated interference-maser synthetic-telepathy), the ELF emissions in the target's brain may interfere constructively or destructively with the ELF modulations carried by the maser as it pulses up and down the frequency range window of subvocalised thought. But before this data can be analysed, the low-level signal has to be picked out of the noise.³⁷ Since at least two pairs of converging masers have to be targeted on the brain of the victim, his ELF emissions will affect the maser beams in exactly opposite ways, while the background noise will cause various changes in the two masers. If only identical but opposite perturbations are looked for in the pulsed window of ELF-modulated maser return signals, then, with computer simulation, a real-time picture can be produced of ELF emissions in the victim's brain.

Having already built up a library of excitation potential signatures for differing words and word groupings, a sophisticated computer can begin to decode the emission signatures into word streams. In this way, the victim's subvocalised thoughts can be stored in the memory of NSA state-of-the-art computers, ready for analysis by NSA personnel.

Using ELF audiograms carried by a single pulse-modulated maser, subvocalised thoughts can be placed in the victim's brain. This gives synthetic telepathy operators the ability to enter into conversations with a targeted 'subversive' to drive him mad, and to input key-words to get the victim thinking about the information they wish to find.

THE SPECTRE OF THOUGHT CONTROL

Telepathy has come a long way since the early days of research. Russian telepaths have made massive advances in the biophysical and electronic spheres of research, while the US military in all probability already has a fully-functioning synthetic telepathy system.

The head of US Special Forces, Major-General Schaknow, made the

first public revelations about synthetic telepathy during a July 1992 lecture at Fort Bragg, North Carolina. Certainly, the mechanisms by which synthetic telepathy might operate are well within the capabilities of US military technology. Without being limited by qualms or ethical concerns, the military is almost certain to have developed synthetic telepathy in a usable form³⁸ and deployed it against internal 'subversives' such as militia members and black activists.

It seems that your own thoughts may no longer be private. Worse still, your own thoughts might not be your own. George Orwell's *1984* might be Utopia compared to the police state of the mind which agents of the New World Order are building under our very noses.

The head of US Special Forces, Major-General Schaknow, made the first public revelations about synthetic telepathy during a July 1992 lecture at Fort Bragg, North Carolina.

Continued on page 89

Genetically Engineered Food — *The Unpredictable Hazards* —

Agribusiness is swamping us with genetically altered foods, with little regard for the impact on our health and the environment.

by John B. Fagan, Ph.D. ©1996

Chairman, Department of Chemistry
Maharishi University of Management
Fairfield, Iowa 52557-1078, USA
Phone: +1 (515) 472 1111 or 472 8342
Fax: +1 (515) 472 1167 or 472 5725
E-mail: jfagan@mum.edu

The use of genetic engineering in agriculture and food production has impacts not only on the environment and biodiversity but also on human health. Therefore, thorough biosafety assessment requires not only evaluation of environmental impacts of genetically engineered organisms but also assessment of the risks that genetically engineered foods pose for the health of consumers.

The hazards that may be introduced into foods through genetic engineering are three-fold: allergens, toxins, and reduced nutritional quality. This paper begins with a discussion of how genetic engineering may introduce these risks into foods, and then outlines the procedures for assessing whether or not a given genetically engineered food contains such hazards. In this discussion, foods, food ingredients and food additives produced through recombinant DNA technologies will be called "genetically engineered", "recombinant" or "transgenic" foods, and the term "food" will be used to refer collectively to foods, food ingredients, food additives and nutritional supplements.

Some of the health risks associated with genetically engineered foods can be anticipated on the basis of the characteristics of the unmodified organism from which the transgenic food-producing organism was generated, and from the source of the genes used in developing the genetically engineered organism. For instance, if a gene derived from peanuts is introduced into a plant, food produced from the resulting genetically engineered plant might cause allergic reactions in people who are allergic to peanuts.

In addition to these anticipatable risks, current recombinant DNA methods—and those likely to be developed in the foreseeable future—are all capable of introducing unintended changes in the function and structure of the food-producing organism. As a result, the genetically engineered food may have characteristics that were not intended by the genetic engineer. Some of these accidental changes may be harmful to the health and safety of the consumer.

Before a genetically engineered food is placed on the market, it should be tested to ascertain that it is free of both anticipatable and unexpected allergens and toxins, and to ascertain whether or not it is altered in nutritional quality. The testing strategies presented below are designed to accomplish this objective.

HOW GENETIC ENGINEERING CAN CREATE HAZARDOUS FOODS

1. Genetic engineering introduces into foods new proteins that can either directly or indirectly threaten health.

Genetic engineering introduces new genes, new genetic information, into the cells of a food-producing organism. Since a gene is the blueprint for a protein, that new genetic information causes the organism to produce one or more new proteins. In turn, the food produced by that genetically engineered organism will contain those new proteins. Thus, genetic engineering introduces new ingredients, new constituents into foods.

The new proteins that genetic engineering introduces into foods can come from virtually any organism on Earth, and most of these new proteins will never have previously been present in significant amounts in human foods. Because people have never before eaten these proteins, the effects that they might have on health will not be known. Thus, the only way to be sure that these foods are safe is to test them thoroughly.

What might be their possible harmful effects? These new proteins could, themselves, cause allergies or be toxic. Alternatively, they could alter the cellular metabolism of the food-producing organism in unintended and unanticipated ways, and, in turn, these alterations in metabolism could cause allergens or toxins to be produced in the food.

Another possibility is that, as a result of these alterations in metabolism, the food-producing organism might fail to make some important vitamin or nutrient. Consequently,

the genetically engineered food would lack important nutrients that are normally present in the corresponding, natural, non-genetically-engineered food.

2. Genetic engineering can create dangerous foods by generating mutations in the DNA of the food-producing organism.

Inserting a recombinant gene into the DNA of a food-producing organism disrupts the natural sequence of genetic information within that DNA. Thus, the process of genetic engineering causes mutations to the food-producing organism. These mutations are a second source of potentially damaging effects of genetic engineering.

The location at which these mutations occur will be random because, by and large, genetic engineers cannot control the site at which a recombinant gene is inserted into the DNA of the organism. They can cut and splice genes in the test tube with considerable precision, but the process of inserting those recombinant genes into the host is very imprecise.

Many parts of an organism's DNA do not contain genes.

Therefore, inserting a recombinant gene into such a location will not disrupt any of the genes of the organism, and, according to what molecular biologists know today, such insertions should not cause any harm. However, it is just as likely that the recombinant gene will be accidentally inserted into the middle of one of the genes of the organism. This will disrupt that gene, and the organism will no longer be able to produce the protein for which that gene is the blueprint.

That gene may be the blueprint for an enzyme that is important in cellular metabolism. Disrupting that gene could alter cellular metabolism, possibly causing the organism to produce a toxic compound that accumulates in the food produced by the organism. Disrupting metabolism could also prevent the organism from producing certain vitamins or nutrients, therefore reducing the nutritional value of the food.

Another possibility is that a genetically engineered gene might be inserted into the DNA very close to an important gene of the food-producing organism, thereby altering the expression of that gene. For instance, it could cause the food-producing organism to produce ten times more or ten times less of that protein. This could cause a variety of problems. First, a protein that is not toxic or allergenic, when present at normal levels, might become toxic or allergenic if present at ten times higher levels. Second, if an important enzyme is produced at a level ten times higher or ten times lower than normal, this could drastically alter cellular metabolism, leading to the production of a toxin or an allergen or to the inability to produce an important nutrient. Third, if the gene encodes a peptide hormone, producing it at higher or lower levels could disrupt important physiological processes, again leading to changes in food quality or safety.

There is a final problem that could result from mutations caused by genetic engineering. As mentioned above, the DNA of most organisms contains long stretches that do not serve as genes. The current view is that these sequences do not have important functions, since altering or deleting portions of them does not seem to have striking effects on the organism. However, the possibility has not been eliminated that such insertions could have unantici-

pated, long-term or subtle effects that might not be immediately obvious, but that could be damaging to the species or to the quality of the food that it produces. Nature is parsimonious, thus it is likely that these sequences have important functions, even though we do not presently know what those functions might be. Therefore, we should not assume that insertions into these sequences will be harmless.

3. The damaging effects of genetic engineering cannot be predicted or controlled.

The ability of genetic engineering to introduce unanticipated health hazards into foods derives from the fact that, although genetic engineers can cut and splice DNA molecules with base-pair precision in the test tube, when an altered DNA molecule is introduced into the genome of a living organism, the full range of its effects on the functioning of that organism cannot be controlled or predicted.

What this means is that, in addition to the changes in biological function intended by the genetic engineer, the introduced DNA may bring about other, unintended changes, some of which may

alter the properties of the food produced by the organism in a manner that makes it damaging to health.

Although the potential health hazards of genetically engineered foods are not different from those associated with other foods (namely, allergens, toxins and reduced nutritional value), the process of genetic engineering itself is responsible for generating these dangers; that is, the use of the genetic engineering process introduces hazards into the resultant food. Thus, the use of genetic engineering in the development of a new food-

producing organism constitutes, in itself, a valid regulatory trigger. Stated in another way, because there is a distinct class of risk that is directly and uniformly associated with the process by which genetically engineered foods are produced, that process—genetic engineering—can be used as a reliable flag for identifying foods that should undergo safety testing.

Proponents of biotechnology argue that the risk associated with genetically engineered foods is very small. However, there is no scientific evidence that this is the case. If one holds to the standards of the science of risk assessment, the existing body of data allows one only to state that, for a given genetically engineered food, the risk is finite but of unpredictable magnitude. A real risk, especially one of unpredictable probability and severity, is something that requires testing.

To support the contention that risks are small, proponents attempt to infer the safety of future transgenic foods from the properties of genetically engineered foods now on the market. However, this is also not consistent with established principles of the science of risk assessment. Furthermore, even if such comparisons were valid, the handful of examples now available do not provide a sufficient database for such estimates. The diversity of possible genetic manipulations that could be carried out in the future, and the diversity of food-producing and gene-source organisms that could be employed in the genetic engineering of future foods, is extremely large. Current examples are simply not representative of the range of possibilities that will emerge in the future. Thus, to assure safety, each genetically engineered food should be tested thoroughly before it is placed on the market.

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THE INABILITY TO PREDICT AND CONTROL THE OUTCOME OF GENE MANIPULATIONS

The inability of biotechnologists to fully control and predict the outcome of genetic modifications of food organisms is due to three factors: the complexity of the recipient organism; the tendency of recombinant DNA manipulations to induce mutations at random locations within the genome of the recipient organism; and the ambiguity of, and cell-type specificity of, regulatory genetic information.

1. Biological complexity leads to the inability to control or predict the effects of recombinant DNA manipulations.

An important contributor to the unpredictability of genetic engineering is the complexity of the recipient organism. The structures and functions of even the simplest single-celled micro-organism are sufficiently complex that developers cannot take all components of the system into account when they consider the impact of a given genetic alteration.

In such a situation, surprises are inevitable, and many of those surprises will not be advantageous. The mechanisms by which genetic manipulations can lead to increased allergenicity and toxicity, described below, provide examples of such surprises.

2. Mutations through Recombinant DNA Manipulations.

The second source of uncertainty regarding the effects of recombinant DNA manipulations stems from the extremely crude nature of current gene transfer techniques. The genetic information introduced into the organism may be precisely defined in sequence, but it is inserted at random into the genome of the recipient organism. Each insertional event is in fact a random mutagenic event.

Stated another way, gene transfer as it is commonly done is a mutagenic process that can disrupt any of the processes in which DNA and RNA participate. The sites at which such mutations occur will be random. Therefore, there is no way to predict which gene or regulatory processes will be disrupted as a result of gene transfer-induced mutagenesis.

By inactivating or altering the expression of genes encoding enzymes that catalyse important biosynthetic processes, mutagenic events could alter the allergenicity of a food or make it toxic, as described in detail below. These mutagenic events could also alter the nutritional qualities of a food. Furthermore, by altering regulatory sequences present normally in the recipient organism's genome, the same variety of regulatory sequence-related problems described below could be generated.

It should be pointed out that with most gene transfer methods used in eukaryotes, this mutational process will occur not just sometimes but *every* time a recombinant gene is inserted into the genome of an organism. Each such insertional event disrupts some native DNA sequence. Many such disruptions will, fortunately, be silent or inconsequential. However, there is a finite chance that one of these will alter the structure or function of the organism in a manner that significantly influences the properties of the foodstuff derived from it. That is, genetic alterations have a finite probability of altering the properties of the organism, such that the properties of the food derived from it will be hazardous to health. In most cases, the procedures used in modification of

food-producing organisms insert not one but *several* copies of a gene into the genome of the recipient organism. Thus, multiple random mutagenic events may occur, greatly increasing the probability of damaging some gene important to food quality.

The risks related to manipulating the genomes of food-producing organisms are inherent in the mechanisms by which recombinant DNA techniques bring about genetic change. These risks cannot be discounted by pointing to the "FlavrSavr" tomato (the first genetically engineered crop to be commercialised) and saying that there have been no problems with it and therefore other transgenics will probably be safe, too. Each transgenic food-producing organism will undergo different mutagenic events and respond to the genetic information introduced into it differently, leading to the range of unexpected alterations described above. Therefore, there is no scientifically valid justification for such extrapolations.

3. Ambiguities of Genetic Information.

Genes contain two distinct kinds of information: structural and regulatory. Structural information specifies the amino acid sequence of proteins and consists of the genetic code, which was elucidated in the 1960s. With a few exceptions, this code is identical for all terrestrial organisms. Thus, the structural information

contained in a given piece of DNA is predictable.

However, the story is quite different for regulatory information. Transcription, translation, replication, recombination and other processes involving DNA and RNA are controlled by regulatory information encoded in DNA or RNA sequences.

The regulatory decoder is much more complex and diverse than the structural code. Furthermore, it is different in different organisms, and is even different in different cell types of

the same organism. For instance, there are many examples in the molecular biological literature in which recombinant genes, characterised in one cell type, are expressed at 100-fold or even 1,000-fold higher levels in another cell type from the same organism. Such differences cannot be predicted simply by knowing the nucleic acid sequence of a recombinant gene. The only way to know is to gather empirical information—by actually introducing the gene into the second cell type and examining the result.

If this is the case for different cell types within a single organism, the level of unpredictability will certainly be as great or greater for cross-species transfers of the kind commonly carried out in agricultural genetic engineering.

The underlying mechanism involved in the 'reading' of regulatory information is well understood. Regulatory proteins exist in the cell, each of which is capable of scanning DNA (or RNA) molecules. Each can recognise and bind to a single, specific nucleic acid motif. That binding reaction triggers biochemical events leading to modulation of a process such as transcription, translation, replication, recombination, etc. In any particular cell, a given sequence can influence one of these processes only if the protein that recognises that sequence is also present. Since different regulatory proteins are expressed in different cell types and in different species, a given DNA sequence will function as a regulatory signal only in some cell types and some species, and not in others. Our knowledge of the 'regulatory code' is extremely

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incomplete. Therefore, we cannot examine the sequence of a nucleic acid molecule and predict its regulatory function in a given organism.

Inserting DNA sequences that possess unanticipated regulatory activities into the genome of a food-producing organism could disrupt any of the cellular processes in which DNA or RNA participate, including replication, transcription, translation, recombination and transposition.

Disruption of transcription or translation could alter the level of expression or the timing of the expression of any protein that is normally expressed in a food-producing organism. This could alter the allergenicity or toxicity of the food derived from that organism, as described below, and could also alter its nutritional or other characteristics.

Disruption or alteration of replication, recombination or transposition mechanisms could, among other things, alter the plasticity or stability of the recipient organism's genome, leading to increased rates of mutagenesis and consequently to a range of problems, as described below.

ALLERGENS GENERATED IN RECOMBINANT FOODS

There exist several mechanisms by which allergens could be expressed in foods through genetic engineering. A number of molecular mechanisms have also been identified through which the genetic manipulation of food-producing organisms could generate new allergens or increase the allergenicity of proteins normally present in food-producing organisms.

Because allergen-carrying transgenic foods will in most cases maintain the appearance of their natural, non-allergenic counterparts, they pose a serious hazard to the consumer. Consumers will not be able to avoid these allergenic foods

because they will not be able to distinguish them from the corresponding natural foods. The labelling of all genetically engineered foods could, of course, solve this problem and would also make it possible for health authorities to trace allergen problems that arise.

At present, empirical evidence regarding the generation of allergenic foods through genetic engineering is sparse, since few of the genetically engineered foods now under development have been thoroughly tested for allergenicity. However, one example has already come to light.

Pioneer Hybrid has developed soybeans with a nutritionally balanced amino acid composition. They accomplished this by engineering into these beans the gene for a brazil nut storage protein. However, this protein turns out to be allergenic to a significant proportion of the population. Pioneer Hybrid has wisely decided to terminate plans to commercialise this product.

TOXINS AND IRRITANTS GENERATED IN RECOMBINANT FOODS

Most substances that will occur in foods as a result of genetic engineering will be proteins that will be present in only trace concentrations. Nevertheless, those added components, in even trace amounts, may substantially alter either the nutritional or other biological characteristics of the food.

In addition to allergenicity, recombinant proteins could manifest a variety of other biological activities, and, in the case of recombinant enzymes, could catalyse the production of other compounds with biological activities not normally present in a particular food. For instance, such substances could act as toxins, irritants, hormone mimetics, etc., and could act at the biochemical, cellular, tissue or organ levels to disrupt a range of physiological functions.

An example of a class of genetically engineered foods of particular concern are those that have been modified to produce biological control agents, such as the family of insecticidal Bt enterotoxins. Each of the Bt toxins is specific for a certain class of insects. The Btk toxin, which has been used topically in organic farming for many years, has not been reported to cause toxic reactions in consumers when used in this way. However, it would not be surprising if a compound such as Btk toxin, which has powerful biological activity in one class of organisms, might also have some biological activity even in a distant phylum such as the vertebrates. Such activity might become apparent if the toxin is consumed in larger amounts, as will occur in transgenic foods derived from organisms engineered to express this toxin constitutively at high levels.

Normally when used topically, Bt toxin is degraded to undetectable levels by solar UV light and other mechanisms in just a few days. However, Bt-engineered plants produce this toxin continually, resulting in much higher steady-state levels. Furthermore, the toxin will be present not only on the surface of the plant but internally where, protected from UV light degradation, it may accumulate.

The result is that consumers of these foods may take in much larger amounts of Bt toxin than is the case with foods derived from topically-treated plants. Consequently, the

excellent safety record of topically-applied Bt toxin does not constitute reliable evidence indicating that foods derived from plants genetically engineered to produce Bt toxin will be safe.

About the Author:

Dr John Fagan has spent more than 24 years using cutting-edge molecular genetic techniques in cancer research. He earned a B.Sc. (*cum laude* with distinction in chemistry) from the University of Washington and a Ph.D. in biochemistry and molecular biology from Cornell University. He has authored more than 50 technical articles, which have been published in international, peer-reviewed journals including *Biochemistry* and *Molecular and Cellular Biology*. A biochemistry professor at Maharishi University, he recently published *Genetic Engineering: The Hazards; Vedic Engineering: The Solutions*.

In recent years Dr Fagan has been increasingly concerned about the dangers of genetically engineered foods, the hazards of releasing genetically engineered organisms into the environment, and the risks of germline genetic engineering in humans. In November 1994 he took an ethical stand against these applications, urging scientists to take safer, more productive research directions and to focus more on prevention and less on high-tech therapeutics. He underscored these warnings by returning a US\$613,882 grant to the National Institutes of Health and withdrawing grant applications worth another US\$1.25 million.

Currently, Dr Fagan is conducting a global campaign to alert the public to the hazards of genetically engineered foods. His goal is to reshape national and international policy and regulations regarding the safety, testing, labelling and importation of genetically engineered foods.

Because allergen-carrying transgenic foods will in most cases maintain the appearance of their natural, non-allergenic counterparts, they pose a serious hazard to the consumer.

The Explosive Secrets of *Major Jordan's Diaries*

*During 1942-45,
high-level US
officials covertly
helped the USSR
acquire large
quantities of
materials for its
secret atom-bomb
research project.*

*Will history judge
the ensuing Cold
War as a monstrous
set-up?*

Part 2

Extracted from
From Major Jordan's Diaries
© 1952 by George Racey Jordan,
USAF (Ret.)
with Richard L. Stokes
Originally published in 1952 by
Harcourt, Brace & Company, New York
Reprinted by American Opinion, 1961

From the outset, extraordinary secrecy and security measures have surrounded the project," declared Henry L. Stimson, Secretary of War, in commenting on the first military use of the atom bomb. "This was personally ordered by President Roosevelt." Mr Roosevelt's orders, he innocently added, "have been strictly complied with."

Yet Russians with whom I worked side by side at Great Falls knew about the A-bomb at least as early as March 1943, and General Groves had reason to distrust the Russians in October 1942! In common with almost all Americans, I got the first hint of the existence of the atom bomb from the news of Hiroshima, which was revealed on August 6, 1945 by President Truman.

I visited Washington in January 1944 to bring to the attention of the highest authorities what seemed to me to be treacherous violations of security in the Pipeline. I got exactly nowhere in the State Department or elsewhere. It was not until I heard the announcement of the atomic blast in Russia on September 23, 1949, that I finally had the good fortune of meeting Senator Bridges and Fulton Lewis—but more of that later.

It was after eleven o'clock, and my checking job was virtually done, when Colonel Kotikov burst into the cabin of the plane. He wanted to know by whose authority I was committing this outrage [see previous issue] and bellowed that he would have me removed. I answered that I was performing my duty, and, just to show how things stood, opened two or three extra suitcases in his presence. I left the C-47 and with a nod of thanks dismissed my sentinel.

As I crossed the field toward the barracks, Colonel Kotikov fell in beside me. No doubt he reflected that he was in no position to force an issue. He may also have realized that I understood the gravity of almost nothing I had seen. All that mattered to him was getting the suitcases off to Moscow. Anxiously he inquired what I intended to do.

If I had known what I do today, I should have grounded the transport, but in the end it went on its way to Russia.

Colonel Kotikov asked me to open no more suitcases until instructions came from the War Department. He said he hoped he would not have to get me transferred. I expected to be fired, and went so far as to pack my gear. But I received no communication from the War Department, and gathered at last that Colonel Kotikov had made no complaint. Perhaps, I began to think, he did not dare.

I reported to Colonel George F. O'Neill, security officer of the 34th Sub-Depot at Gore Field, about the fifty suitcases I had examined. He was interested enough to pass the story on to his superior officer in Spokane. There was no reply, even after Colonel O'Neill made a second attempt. Apparently it was not considered good form to cast reflections on the integrity of our ally...

"DON'T MAKE A BIG PRODUCTION..."

One morning in April 1943, Colonel Kotikov asked whether I could find space for an important consignment of nearly 2,000 pounds. I said, "No, we have a quarter of a million pounds' backlog already."

He directed me to put through a call to Washington for him, and spoke for a while in his own tongue. Then he put a hand over the mouthpiece and confided to me in English, "Very special shipment—experimental chemicals—going through soon."

There was an interval of Slavic gutturals, and he turned to me again. "Mr Hopkins—coming on now," he reported. Then he gave me the surprise of my life. He handed me the phone and announced, "Big boss, Mr Hopkins, wants you."

It was quite a moment. I was about to speak for the first time with a legendary figure of the day, the top man in the world of Lend-Lease in which I lived. I have been careful to keep the following account as accurate in substance and language as I can. My memory, normally good, was stimulated by the thrill of the occasion. Moreover, the incident was stamped on my mind because it was unique in my experience of almost 25 months at Newark and Great Falls.

A bit in awe, I stammered, "Jordan speaking."

The male voice began at once. "This is Mr Hopkins. Are you my expediter out there?"

I answered that I was the United Nations Representative at Great Falls, working with Colonel Kotikov.

Under the circumstances, who could have doubted that the speaker was Harry Hopkins? Friends have since asked me whether it might not have been a Soviet agent who was an American. I doubt this, because his next remark brought up a subject which only Mr Hopkins and myself could have known.

He asked, "Did you get those pilots I sent you?"

"Oh yes, sir," I responded. "They were very much appreciated, and helped us in unblocking the jam in the Pipeline. We were accused of going out of channels, and got the dickens for it."

Mr Hopkins let that one go by, and moved on to the heart of things. "Now, Jordan," he said, "there's a certain shipment of chemicals going through that I want you to expedite. This is something very special."

"Shall I take it up," I asked, "with the Commanding Colonel?"

"I don't want you to discuss this with anyone," Mr Hopkins ordered, "and it is not to go on the records. Don't make a big production of it, but just send it through quietly, in a hurry."

I asked how I was to identify the shipment when it arrived. He turned from the phone, and I could hear his voice: "How will Jordan know the shipment when it gets there?" He came back on the line and said, "The Russian Colonel out there will designate it for you. Now send this through as speedily as possible, and be sure you leave it off the records!"

Then a Russian voice broke in with a demand for Colonel Kotikov. I was full of curiosity when Kotikov had finished, and I wanted to know what it was all about and where the shipment was coming from. He said there would be more chemicals and that they would arrive from Canada.

"I show you," he announced.

Presumably, after the talk with Mr Hopkins, I had been accepted as a member of the 'lodge'. From his bundle on war chemicals the Colonel took the folder called "Bomb Powder". He drew out a paper sheet and set a finger against one entry. For a second time my eyes encountered the word "Uranium". I repeat that in 1943 it meant as little to me as to most Americans, which was nothing.

This shipment was the one and only cash item to pass through my hands, except for private Russian purchases of clothing and liquor. It was the only one, out of a tremendous multitude of consignments, that I was ordered not to enter on my tally sheets. It was the only one I was forbidden to discuss with my superiors, and the only one I was directed to keep secret from everybody.

Despite Mr Hopkins' urgency, there was a delay of five weeks.

On the morning of June 10th, I caught sight of a loaded C-47 which was idling on the runway. I went over and asked the pilot what was holding him up. He said he understood some kind of special shipment was still to come. Seven years afterward, the pilot identified himself to the press as Air Forces Lieutenant Ben L. Brown, of Cincinnati.

I asked Colonel Kotikov about the plane, and he told me the shipment Mr Hopkins was interested in had just arrived at the railroad yards, and that I should send a truck to pick it up. The consignment was escorted by a Russian guard from Toronto. I set down his name, and copied it later in my diary. It was Vladimir Anoufrieu. I identified him with the initials "C.C." for "Canadian Courier".

Fifteen wooden cases were put aboard the transport, which took off for Moscow by way of Alaska. At Fairbanks, Lieutenant Brown has related, one box fell from the plane, smashing a corner and spilling a small quantity of chocolate-brown powder. Out of curiosity, he picked up a handful of the unfamiliar grains, with a notion of asking somebody what they were. A Soviet officer slapped the crystals from his palm and explained nervously, "No, no—burn hands!"

Not until the latter part of 1949 was it definitely proved, from responsible records, that during the war Federal agencies delivered to Russia at least three consignments of uranium chemicals, totaling 1,465 pounds, or nearly three-quarters of a ton. Confirmed also was the shipment of one kilogram, or 2.2 pounds, of uranium metal at a time when the total American stock was 4.5 pounds.

Implicated by name were the Lend-Lease Administration, the Department of Commerce,

the Procurement Division of the Treasury and the Board of Economic Warfare. The State Department became involved to the extent of refusing access to files of Lend-Lease and its successor, the Foreign Economic Administration.

The first two uranium shipments traveled through Great Falls by air. The third was dispatched by truck and railway from Rochester, NY, to Portland, Oregon, and then by ship to Vladivostok. The dates were March and June 1943, and July 1944. No doubt was left that the transaction discussed by Mr Hopkins and myself was the one of June 1943.

This was not merely the largest of our known uranium deals with the Soviet Union, it was also the most shocking. There seemed to be no lengths to which some American officials would not go in aiding Russia to master the secret of nuclear fission. For four years, monopoly of the A-bomb was the cornerstone of our military and overseas policy, yet on September 23, 1949, long in advance of Washington estimates, President Truman announced that an atomic explosion had occurred in the Soviet Union.

In behalf of national security, the Manhattan Project during the spring of 1943 clapped an embargo on American exports of uranium compounds. But zealots in Washington appear to have resolved that Russia must have at all costs the ingredients for atomic experiment. The intensely pro-Soviet mood of that time may be judged from echoes in later years.

For example, there was Joseph E. Davies, Ambassador to the

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Soviet Union in 1936-39, and author of a book and movie of flagrant propaganda, *Mission to Moscow*. In an interview with the *Times-Herald* of Washington for February 18, 1946, he was quoted as saying, "Russia, in self-defense, has every moral right to seek atomic bomb secrets through military espionage if excluded from such information by her former fighting allies!" There also was Professor Harold C. Urey, American scientist, who sat in the innermost circle of the Manhattan Project. Yet on December 14, 1949, in a report of the Atlantic Union Committee, Dr Urey said that Major Jordan should be court-martialed if he had removed anything from planes bound for Russia.

When American supplies were cut off, the device of out-maneuvering General Groves was to procure the materials clandestinely from Canada. Not until 1946 did the commander of the Manhattan Project learn from the Un-American Activities Committee that his stockade had been undermined.

My share in the revelation was testimony under oath, leading to one conclusion only: that the Canadian bypass was aided by Mr Hopkins. At his direction, Lend-Lease issued a certificate of release without which the consignment could not have moved. Lend-Lease channels of transportation and Lend-Lease personnel, such as myself, were used. Traces of the scheme were kept off Lend-Lease books by making it a 'cash' transaction. The shipment was paid for with a check of the Amtorg Trading Corporation.

Because of the initial branch of the airlift to Moscow was under American control, passage of the chemicals across United States territory could not be avoided, in Alaska if not Montana. On account of that fact—the cash nature of the project—it was necessary to obtain an export license from the Board of Economic Warfare. Such a document, covering a shipment of American

origin, was first prepared. It was altered, to comply with the Canadian maneuver, by some BEW official whose identity has been concealed by the State Department. As amended, the license was issued on April 29, 1943. Its serial number was C-1643180.

But two facts were forgotten: (a) public carriers use invoices, and (b) the Air Forces kept tallies not only at Great Falls but Fairbanks.

By diligent searching, freight and airway bills yielded incontestable proof that 15 boxes of uranium chemicals were delivered at Great Falls on June 9, 1943, and were dispatched immediately, in a Lend-Lease plane, to the Soviet Union.

The shipment originated at Eldorado Mining & Refining, Ltd, of Great Bear Lake, and was sent through Port Hope, Ontario. It was authorized by a Canadian arms export permit, No. OF1666. The carrier was the Chicago, Milwaukee, St Paul & Pacific Railway. Listed as consignee was Colonel A. N. Kotikov, resident agent of the Soviet Government Purchasing Commission at Gore Field, Great Falls.

The story behind the story is as follows. On February 1, 1943, Hermann H. Rosenberg of Chematar, Inc., New York City, received the first inquiry about uranium ever to reach his office. The applicant was the Soviet Purchasing Commission, which desired 220 pounds of uranium oxide, 220 pounds of uranium nitrate, and 25 pounds of uranium metal.

At that date Oak Ridge was under construction, but would not

be in operation for another year.

Six days earlier the War Production Board had issued General Reference Order M-285, controlling the distribution of uranium compounds among domestic industries like glass, pottery and ceramics. A loophole was left by overlooking the export of such materials for war purposes. The Russians claimed that they had urgent military need for uranium nitrate in medicinal research, and for uranium oxide and metal as alloys in hardening gun-barrel steel. There was nothing for the US to do but grant an OK, since we did not want to imply that we were suspicious of Russia's request.

Uranium metal was unavailable. On March 23, at Rosenberg's instance, the S. W. Shattuck Chemical Co. of Denver shipped four crates, weighing 691 pounds, to Colonel Kotikov at Great Falls. The Burlington Railroad's bill of lading described the contents merely as "Chemicals", but it was accompanied by a letter from Rosenberg to Kotikov designating the contents as 220 pounds of uranium nitrate and 200 (not 220) pounds of uranium oxide. Since it was a Lend-Lease transaction, defrayed with American funds, no export license was required. The cargo was dispatched without friction along the Pipeline.

The Russians claimed that they had urgent military need for uranium nitrate in medicinal research, and for uranium oxide and metal as alloys in hardening gun-barrel steel. There was nothing for the US to do but grant an OK...

But the War Production Board, from which clearance had been sought, alerted the Manhattan Project. It was too late to halt the Shattuck sale. General Groves reluctantly approved it on the ground that it would be unwise to 'tip off' Russia as to the importance of uranium chemicals—a fact with which Moscow was only too familiar.

During the investigation, I was embarrassed by questions as to why tables of exports to the Soviet Union contained no mention of uranium. The Shattuck consignment was legitimate. It had been

authorized by Lend-Lease, the War Production Board and the Manhattan Project.

Some months later I ran into John F. Moynihan, formerly of the *Newark News* editorial staff. A Second Lieutenant at the Newark Airport when I was there, he had risen to Colonel as a sort of 'reverse press-agent' for General Groves. His duty was not to foster publicity but prevent it.

"I heard you floundering about," he said, "and wished I could tell you something you didn't know. I was sent to Denver to hush up the records in the Shattuck matter. It was hidden under the phrase, 'salts and compounds', in an entry covering a different metal."

General Groves moved rapidly to stop the leak through which the Shattuck boxes had slipped. By early April he had formed a nationwide embargo by means of voluntary contracts with chemical brokers. They promised to grant the United States first right to purchase all uranium oxide, uranium nitrate and sodium uranate received by the contractors.

The uranium black-out was discovered by Rosenberg when he tried to fill another order from the Soviet Purchasing Commission, for 500 pounds each of uranium nitrate and uranium oxide. On April 23, 1943, Rosenberg was in touch with the Canadian Radium & Uranium Corp. of New York, which was exclusive sales agent for Eldorado Mining & Refining, Ltd, a producer of uranium at Great Bear Lake.

An agreement to fill the Soviet order was negotiated with such dispatch that in four days Rosenberg was able to report victory to the Purchasing Commission. The shipment from Ontario to Great Falls and Moscow followed in due course.

The Port Hope machination had the advantage, among other things, of bypassing the War Production Board, which was sure to warn the Manhattan Project if it knew the facts, but could be kept in ignorance because its jurisdiction ran only south of the border.

General Groves was advised at once of the Soviet application for 1,000 pounds of uranium salts. He was not disturbed, being confident the embargo would stand. After declining to endorse the application, he approved it later in the hope of detecting whether the Russians could unearth uranium stocks which the Manhattan Project had overlooked. American industries were consuming annually, before the war, upwards of 200 tons of uranium chemicals.

"We had no expectation," General Groves testified December 7, 1949, "of permitting that material to go out of this country. It would have been stopped."²

So far as the United States was concerned, the embargo held fast. The truth that it had been side-stepped by means of resort to Canadian sources did not come to the General's knowledge until three years later.

Another violation of atomic security was represented by the third known delivery to Russia, in 1944. It proved to be uranium nitrate. During May of that year, Colonel Kotikov showed me a warning from the Soviet Purchasing Commission to look out for a shipment of uranium, weighing 500 pounds, which was to have travel priority. The Colonel was soon returning home. As the climax of his American mission, he proposed to fly the precious stuff to Moscow with his own hands.

Disguised as a "commercial transaction" within American territory, the deal was managed by Lend-Lease. Chematar and Canadian Radium & Uranium were abandoned in favor of the Procurement Division of the Treasury Department, although the Treasury, under regulations, had no authority to make uranium products available to the Soviet Union.

Contractors were asked to bid, and the winner was the Eastman Kodak Company. Somewhere in this process, the expected 500 pounds shrank to 45. Eastman Kodak reported the order to the War Production Board as a domestic commercial item.

Whatever the motive, it was determined not to send the compound by air. After a Treasury inspection in Rochester, the MacDaniel Trucking Company drove it to the Army Ordnance Depot at Terre Haute, Indiana, arriving July 24. The shipment turned up in freight car No. 97352 of the Erie Railroad, and got to North Portland, Oregon, on August 11. By means of shifts not yet divulged, the uranium nitrate found itself aboard a Russian steamship, *Kashirstroi*, which left for Vladivostok on October 3. Colonel Kotikov, who had planned a triumphal entry into Moscow with a quarter-ton of "bomb powder" as a trophy, gave up the project in disgust on learning that the shipment would be only 45 pounds.

In charge of uranium purchases for the Manhattan Project in

1944 was Dr Phillip L. Merritt. Appearing January 24, 1950 before the Un-American Activities Committee, Dr Merritt swore he was taken by surprise, a day earlier, on discovering for the first time that the Eastman Kodak order had been shipped to Russia by way of Army Ordnance.

General Groves was likewise uninformed. Asked as a witness whether it was possible for uranium shipments to have been made in 1944, he answered, "Not if we could have helped it, and not with our knowledge of any kind. They would have had to be entirely secret, and not discovered."³ He declared there was no way for the Russians to get uranium products in this country "without the support of US authorities in one way or another."⁴

The Soviet Purchasing Commission appears to have had instructions to acquire without fail 25 pounds of uranium metal, which can be extracted from uranium salts by a difficult process requiring specialized equipment. Supported or advised by Lend-Lease, the commission for a whole year knocked at every available door, from the Chemical Warfare Service up to Secretary Stimson. As a matter of fact, uranium metal was then non-existent in America, and for that reason had not been specified in the Manhattan Project's embargo or named as a "strategic" material.

Stimson closed a series of polite rebuffs with a letter of April 17, 1944, to the chairman of the Purchasing Commission, Lt

General Leonid G. Rudenko. But Moscow was stubborn. Under Soviet pressure, the commission, or its American friends, had an inspiration. Why not have the uranium made to order by some private concern?

As usual, a roundabout course was taken. The commission first approached the Manufacturers Chemical Co., 527 Fifth Avenue, New York, which passed the order along to A. D. Mackay, Inc., 198 Broadway. By the latter it was farmed out to the Cooper Metallurgical Laboratory in Cleveland. According to Mr Mackay, neither he nor the

Cooper concern suspected that their customer was the Soviet Union.

But Mackay reported the deal to the War Production Board, which warned the Manhattan Project. The latter's expert on rare metals, Lawrence C. Burman, went to Cleveland, it is related, and urged the Cooper firm to make sure that its product was of "poor quality". He did not explain why. But the metal, of which 4.5 pounds was made, turned out to be 87.5 per cent pure as against the stipulated 99 per cent.

Delivery to the Soviet Union was then authorized of a small sample of this defective metal, to represent "what was available in the United States". Actually shipped was one kilogram, or 2.2 pounds. The Purchasing Commission abruptly silenced its demands for pure uranium. But the powers that be found it suitable to omit this item, as well as the Rochester sale, from the 1944 schedule of exports to Russia.

From the start, in contrast to the atmosphere prevailing in Washington, the Manhattan Project was declared by General Groves to have been "the only spot I know that was distinctly anti-Russian."⁵ Attempts at espionage in New York, Chicago and Berkeley, California, were traced to the Soviet Embassy. They convinced General Groves in October 1942 that the enemies of

Another violation of atomic security was represented by the third known delivery to Russia, in 1944. It proved to be uranium nitrate...

Disguised as a "commercial transaction" within American territory, the deal was managed by Lend-Lease.

our atomic safeguards were not Germans or Japanese, but Russians. "Suspicion of Russia was not very popular in some circles [in Washington]," he stated. "It was popular in Oak Ridge, and from one month of the time I took over we never trusted them one iota. From that time on, our whole security was based on not letting the Russians find out anything."⁶

That the Russians found out everything from alpha to omega has been established by volumes of proof. Through trials in Canada, England and the United States there has been revealed the existence of an espionage network so enormously effective that Russia, scientists calculated, "should have been able to make a bomb considerably before September 1949". The network chief was the former Soviet Vice Consul in New York, Anatoli A. Yakovlev, who fled in 1946.

THE STORY OF THE "HEAVY WATER"

What is popularly known as "heavy water" is technically called deuterium oxide. It is in crystal form, not liquid.

In alleging medical and other grounds for its needs of uranium oxide and uranium nitrate, Russia had taken care to observe an appearance of truth, for such use is not unknown to therapeutics. It had been tried out in throat sprays and lent its name to *Uranwein*, a German specific against diabetes. Uranium oxide had been tested as an alloy for toughening steel, but it was found difficult to handle and had erratic results. Therefore when Moscow asked for heavy water, they let the cat out of the bag. Except for curious experiments in retarding plant growth, heavy water boasts only one useful property: it is the best of moderators for slowing down the speed of neutrons in nuclear reactions.

Records in evidence⁷ prove that on August 23, 1943, Hermann Rosenberg of Chematar received an application from the Soviet Purchasing Commission for 1,000 grams of deuterium oxide. The purpose stated was "research". A supplier was found in the Stuart

Oxygen Co. of San Francisco, which shipped the merchandise on October 30 by railway express to Chematar's New York office. Rosenberg forwarded the consignment to the Purchasing Commission in Washington, which dispatched it on November 29, by way of the Pipeline, to Rasnoimport, USSR, Moscow U-1, Ruybjshova-22.

The order was packed with as much tenderness as if it had been a casket of jewels. Forty pyrex ampoules, each containing 25 grams, were enclosed in mailing tubes and wrapped in layers of cotton. The ampoules were divided in lots of 10 among four cartons, which were placed, with further precautions against damage, in a large wooden box. This was strapped and sealed. The overall weight was 41.12 pounds. The cost of the fluid content was that of expensive perfumes—\$80 an ounce.

The export of heavy water to the Soviet Union was approved by a release certificate, No. 366, dated November 15, with the signature of William C. Moore, Division for Soviet Supply, Office of Lend-Lease Administration.

If General Groves had been consulted, the heavy water would not have left this country. Had it been known at the time, he said, that 1,000 grams were available, unquestionably he would have bought the treasure himself. He added, "If it had been pure."⁸ That it was between 99.7 and 99.8 per cent pure was attested by an independent analysis made for Rosenberg in the laboratories of Abbot A. Hanks, Inc., San Francisco.

At the beginning of 1945, the Soviet Purchasing Commission placed with Rosenberg a second order for heavy water. Only 100 grams were sought. He applied once more to the Stuart concern, which expressed the 'liquid diamonds' to Chematar on February 7. One week later Rosenberg forwarded the parcel to the commission. Its subsequent adventures have not been traced. In August of the same year, Rosenberg was naturalized as an American citizen...

The book, *From Major Jordan's Diaries*, contains many pages listing the US\$9.6 billion worth of material sent to Russia from 1942-1945. Of particular interest is this list of "Atomic Materials", all of which are necessary in the construction of the atomic bomb.

Item	Quantity	Cost in US Dollars
Beryllium metals	9,681 lbs	10,874
Cadmium alloys	72,535 lbs	70,029
Cadmium metals	834,989 lbs	781,466
Cobalt ore & concentrate	33,600 lbs	49,782
Cobalt metal & cobalt-bearing scrap	806,941 lbs	1,190,774
Uranium metal	2.2 lbs	—
Aluminum tubes	13,766,472 lbs	13,041,152
Graphite, natural, flake, lump or chip	7,384,282 lbs	812,437
Beryllium salts & compounds	228 lbs	775
Cadmium oxide	2,100 lbs	3,080
Cadmium salts & compounds	2 lbs	19
Cadmium sulfate	2,170 lbs	1,374
Cadmium sulfide	16,823 lbs	17,380
Cobalt nitrate	51 lbs	48
Cobalt oxide	17,800 lbs	34,832
Cobalt salts & compounds	11,475 lbs	7,112
Cobaltic & cobaltous sulfate	22 lbs	25
Deuterium oxide (heavy water)	1,100 grs	—
Thorium salts & compounds	25,352 lbs	32,580
Uranium nitrate	500 lbs	—
Uranium nitrate (U02)	220 lbs	—
Uranium oxide	500 lbs	—
Uranium, urano-uranic oxide (U308)	200 lbs	—

Was one kilogram of heavy water and were mere hundreds of pounds of uranium chemicals too insignificant for important use?

Specialists agree that the quantities delivered were inadequate for producing one A-bomb or even one experimental pile. They point out, however, that scarcely any fraction of a substance can be too small for laboratory research. The head of a pin could not have been formed with the first plutonium ever made. From 500 micrograms were determined most of the properties and the chemical behavior of an element which 18 months earlier had been entirely unknown.

On the presumption that 1,465 pounds of uranium salts were contributed to the Soviet Union, metallurgists estimate that they were reducible in theory to 875 pounds of natural uranium, which in turn would yield 6.25 pounds of fissionable U-235. But 4.4 pounds of the latter, or nearly two pounds less, are capable of producing an atomic explosion. Authority for this assertion may be found in the celebrated report which Dr Henry De-Wolf Smyth of Princeton University wrote at the request of General Groves and published in 1945.

The Shattuck and Eldorado purchases totaled 1,420 pounds. With their third requisition, the Russians expected so confidently to acquire another 500 pounds that papers to that effect were drafted and sent to us in Montana. If the full amount had been available, instead of 45 pounds, the aggregate would have been 1,920 pounds, or virtually one ton.

At his Paris laboratory, while chief of the Atomic Energy Commission of France, Frederic Joliot-Curie built an experimental pile to which he gave the affectionate name of "Zoe". It actually ran, though the wattage was feeble. The quantity of uranium crystals utilized, said Dr Joliot-Curie, was "something in the order of one ton".

It seems fair to take into account not merely what the Russians got, but what they tried to get. With Communist tenacity and ardent support from both White House and Lend-Lease, the Soviet Purchasing Commission strove again and again to obtain 8-1/2 tons each of uranium oxide and uranium nitrate, plus 25 pounds of uranium metal. The campaign started in February 1943, and persisted until the Russians were squelched by Secretary Stimson during April 1944.

There are memorable instances of what can be achieved with less than 17 tons of uranium powders. One was a model atomic pile which went into operation at Chicago University on December 2, 1942. "So far as we know," Dr Smyth recounts, "this was the first time that human beings ever initiated a self-maintaining nuclear chain reaction." With a power level of 200 watts, the device served as a pilot plant for the Hanford Engineer Works. The uranium supply available to them was six tons.

Even earlier, before the Manhattan Project was dreamed of, a group of scientists at Columbia University began a course of hazardous experiments under the leadership of two foreign-born savants, Leo Szilard of Hungary and Enrico Fermi of Italy. They were so ill-supported with cash that 10,000 pounds of uranium oxide had to be 'rented' at a nominal fee of 30 cents a pound from Boris Pregel, president of the Canadian Radium & Uranium Corp. of New York, who was later unjustly made a scapegoat by the press for the secret Canadian shipment.

Here was done all the preparatory work moving toward the eventual creation of the first man-made elements in history: neptunium-93 and plutonium-94. From the group's creative imagination rose in time the vast plutonium plant at Hanford, Washington, and, in a large sense, America's atom bomb itself. The materials of that triumph were not 17 but 10 tons of uranium compounds.

One of my lucky experiences was that of chancing upon the February 27, 1950 issue of the magazine, *Life*, shortly before my second appearance before the Un-American Activities Committee. I bore the copy with me to the witness chair. It contained an illustrated article on the atom bomb. I learned for the first time that a plutonium pile consists of giant blocks of graphite, surrounded by heavy walls of concrete and honey-combed with aluminum tubes. In these tubes, it was related, are inserted slugs of natural uranium, containing one per cent of U-235. The intensity of the operation was declared to be governed by means of cadmium rods.

Graphite, cadmium, aluminum tubes—where had I met these words before? In the Russian lists of Lend-Lease figures which I had added to the Jordan diary. Re-examining those pages, I discovered that during the four-year period 1942-45 we contributed to the Soviet Union 3,692 tons of natural graphite, 417 tons of cadmium metals, and tubes in an entry

designating 6,883 tons of "aluminum tubes".

The figure for cadmium was arresting in view of its extreme scarcity in this country and because of the fact that it occurs, so far as we know, sparsely if at all in the Soviet Union. Under war stimulus, American production of cadmium rose from 2,182 short tons in 1940 to 4,192 in 1945.

It was interesting to find that in 1942-45 we shipped to Russia 437 tons of cobalt—a staggering amount when collated with American production, which was nothing before the war, and increased to 382 tons in 1942 and 575 in 1945.

That cobalt is valuable in the A-bomb for retarding radioactive emanations, and could be equally so in the hydrogen bomb, has been affirmed by a chemical engineer who was consultant to one of the war agencies. "Cobalt," says he, "was one of our highest scarcity materials. If I had known that so large a proportion was going to the Russians, I should have suspected them of being at work on the bomb." Incidentally, cobalt was the first item to be restricted by President Truman in the Korean emergency.

Almost as curious was the discovery that we shipped to Russia more than 12 tons of thorium salts and compounds. Two other elements alone, besides uranium and plutonium, are fissionable. They are protoactinium and thorium. The former may be disregarded because of its rarity in nature. But thorium, which is relatively plentiful, is expected by physicists to rival uranium some day, or even supplant it, as a source of atomic energy.

Then there were cerium and strontium, of which the Soviet Purchasing Commission obtained 44 tons. Both metals, along with cadmium, thorium and cobalt, figured in Colonel Kotikov's dossier on experimental chemicals. They are useless for atomic purposes. But Russian scientists may have been working their way through the rare earths and metals on a well-founded suspicion that something momentous was afoot in that group.

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Continued on page 90

— TARGET LIBYA —

The making of a scapegoat

Vested interests in US intelligence and politics used extreme terror tactics to turn world public opinion against Libya in the 1980s.

But are their activities part of a much broader plan for global destabilisation?

by David G. Guyatt ©1996

5 Mucking Hall Cottages
Mucking Hall Road
Barling Magna, Essex SS3 0NJ
England, UK
Phone/Fax: +44 (0)1702 217523

The murder of WPC Fletcher in London, the bombing of La Belle Discothèque in Berlin, and the downing of Pan Am Flight 103 over Lockerbie were the three outrageous 'terrorist' events that led to Libya being outcast by the international community. These atrocities are now revealed as yet further examples of the 'decade of tension' inspired by the West. The dirty tricks, resulting in hundreds of deaths, were artfully hatched in Washington and London under utmost secrecy.

LOCKERBIE WHISTLEBLOWER SILENCED?

"It's an easy hit." The voice of Lester Coleman, former Defense Intelligence Agency (DIA) operative and joint author of the explosive book *Trail of the Octopus*,¹ echoed hollowly down the line. Lester answered my question in a few simple words. I had asked him why the US continues blaming Libya's Colonel Qadhafi for all the woes of the world. Since his enforced 'exile', Lester has become something of an expert on Libya.

"Listen, David," he continued. "It's all domestic politics." Libyan skulduggery plays to the "rednecks" who inhabit middle America. Lester, an accomplished linguist, launched into a humorous backwoods drawl to emphasise his point. Most Americans believe anything they're told about "Ay-rabs", he said—particularly at politically sensitive times or during an election year. One reason, perhaps, why the US had threatened to use a nuclear weapon against Libya in the spring of 1996.

I was told this latter piece of gossip by Sir Teddy Taylor, Conservative Member of Parliament. Sir Teddy had consented to an interview to provide background on the assassination of WPC Yvonne Fletcher and also on the downing of Pan Am Flight 103 over Lockerbie, Scotland. The MP had a special interest in both cases. Somehow I had missed picking up the US nuclear threat on the news. When Sir Teddy mentioned it, my jaw dropped with a jowl-shuddering 'clunk'. I later confirmed the story with American media sources. In the event, it was just bluster.

The year 1996 has proved to be a peculiarly good one for Libya. For the second time in a decade, it got shunted into the political backwoods by presidential warlords. Instead, the mad ayatollahs of Iran took centre-stage as America's arch-demon in this election year.² But by all accounts it was touch-and-go whether Libya or Iran would be awarded the honour of the black boot this time around.

Les Coleman is the first DIA operative to have gone public and blown the whistle. His book blew the lid on the Lockerbie story. Because of his inside knowledge he was inundated with death threats from the intelligence community, so he fled with his family to Europe for safety. Originally given temporary political asylum in Sweden, two years later he was forced to move on. Most recently he was residing in Spain.

When I spoke to him, he was planning his return to the US after years of exile. Now penniless and unsettled, he spoke about his chances of arrest on an old charge of obtaining a passport in a false name—something he did under DIA instruction as a field operative. In any case, Les was hoping that the [then] forthcoming US presidential election might insulate him from prosecution, but he was going to return "home" no matter what. His family had understandably grown tired of their nomadic life and missed home.

Unsurprisingly, word of his imminent return to the US had leaked out. A short while before finalising his flight plans, he was attacked by four men and beaten to a pulp. He arrived in the US in a wheelchair on 17 October 1996, and was arrested and placed in custody on Federal charges.

The US edition of Coleman's book, due to be published by Signet Books, has now been suppressed. US distributors for Signet say the publication date is "postponed", possibly in perpetuity.

CIA 'DESTABILISATION' OF LIBYA

Les Coleman was one of many people I spoke to in an attempt to get a clear understanding of the nonsensical US position on Libya. For the better part of 20 years, Libya—and its leader, Col. Mu'ammar al-Qadhafi—has been hoisted atop America's most-hated-nation list. It was a form of political vilification that Europe didn't share—until the murder of Yvonne Fletcher (to which I shall return).

Upon taking power, the Reagan administration immediately commenced a bitter campaign against Qadhafi, principally under the guidance of Director of Central Intelligence, Bill Casey—a gruff, no-nonsense, financial street-fighter whose lack of political eloquence was matched by a well-used blackjack.³ Casey had been Ronald Reagan's campaign manager and carried Reagan to victory on the back of the "October Surprise" issue of 1980. President Carter's re-election chances were dashed by the intransigence of both the Iranians and US officials who, unknown to him, had concluded a secret deal to delay the release of US hostages held by Tehran, in exchange for battlefield weapons. Reagan romped home to a landslide victory and immediately announced that the hostages would be released. It is now clear that Casey was one of the central architects who negotiated the deal with the Iranian ayatollahs.

A virulent pro-market anti-Communist, Casey shared his views with British Prime Minister Margaret Thatcher—a close personal friend. Thatcher was one of the few prime ministers who took an active interest in the machinations of the intelligence community. She went out of her way to attend Joint Intelligence Committee meetings and insisted on being regularly briefed. Her interest in these exotic areas may have been whetted by many of her ardent supporters, like Airey Neave, who possessed intelligence backgrounds.

Casey also had a 'thing' about Qadhafi, whom he saw as a low-life rebel-rouser who bankrolled the globe's terrorists. Along with other administration hard-liners, Casey set out to destabilise Libya and overthrow Qadhafi in true CIA fashion.

Within months of taking office, President Reagan authorised a battle fleet to sail along Libya's coastline. Announced to the media as a "naval exercise", the manoeuvre was designed to challenge Libya's recently declared sovereignty over the Gulf of Sidra—a move that extended Libya's territorial claims well beyond the internationally recognised 12-mile coastal boundary. Ordinarily, a territorial dispute of this nature would typically be subject to international diplomacy and discussion.

In the event, the Reagan administration saw it as a perfect excuse to buckle on the hip-holsters and start blasting away with a set of Texan six-guns. Qadhafi was about to get a taste Reagan's gung-ho, go-get-'em diplomacy—the first in a series of 'police actions' that were later to lead to the illegal invasions of Granada and Panama.

On 19 August 1981, two US Navy F-14 "Tomcats" patrolling 30 miles inside the disputed territorial waters were attacked by Libyan jets. In the melee that followed, two Libyan jets were shot down. [Note: Many researchers dispute that the Libyans attacked first. See additional comments in box on page 36. Ed.]

A delighted Ronald Reagan mimicked his old western-movie

days for the benefit of his close aides by drawing two imaginary six-guns and peppering an equally imaginary Qadhafi with bullets. It was pure *Boys' Own* stuff, but backed by multi-megaton muscles.

Over the following months, numerous intelligence briefings reported that Qadhafi had ordered a revenge attack against President Reagan and other high-level administration officials. Quickly shown to be unfounded, the fabricated report was traced to Manucher Ghorbanifar, a shadowy Iranian arms dealer who had helped to broker the arms-for-hostages deal. Despite this, the 'false' death threat gave Casey and other administration insiders the ammunition they needed to wage a protracted campaign against the Libyan leader.

By November 1981, a top secret National Security Planning Group, chaired by the President (who was known to sleep through Cabinet meetings), authorised planning for "a military response against Libya in the event of further Libyan attempts to assassinate American officials or attack US facilities." Soon drafted, the "Top Secret" memo, "Counter-terrorist planning towards Libya", recommended that the President "immediately direct the Joint Chiefs of Staff to ready assets to carry out military action against Libya in self-defense, following a further Libyan provocation." A number of retaliatory 'graduated' responses were planned. Out of the main five options, four centred on air strikes against Libyan targets.

Fear-stricken at these developments, Qadhafi reacted by sending an envoy to Washington, pleading that the whole thing was pure bunkum. The strategy proved successful—for the time being.

There followed an hiatus in US activity against Libya, as Casey focused most of the CIA's resources on the Nicaraguan situation. But Qadhafi was not to be forgotten. After a tour of European capitals in early 1984 (a US presidential election year), US officials seeking allied co-operation against Libya returned home in bleak mood.

The picture they presented of European attitudes to Qadhafi was not encouraging. The Libyan leader was generally well-regarded: he did a lot of business with Europe, he wasn't a fundamentalist, and a large number of European ex-pats lived and worked in Libya. Collectively, the Europeans wouldn't sanction US hostilities—hardly surprising when the bulk of Libya's crude oil (almost 80 per cent) is exported to Western Europe, principally Italy, Germany, Spain and France.⁴

With administration insiders concluding that Qadhafi would be just the 'ticket' leading to a Reagan victory at the upcoming election that November, something had to be done to modify European public opinion. Within months, 'fate' seemed to lend a helping hand.

THE KILLING OF WPC FLETCHER

Woman Police Constable Yvonne Fletcher was on duty outside the London Libyan People's Bureau on 17 April 1984. Located in the fashionable and serene St James's Square, the Libyan Bureau building huddles in a corner of the square. Its address is No. 5. On that day, a hail of automatic gunfire disturbed the tranquillity, sending pigeons flying in all directions. The 11-round burst, fired by a 9-mm Sterling sub-machine-gun from the first floor of the Libyan building, felled a number of anti-Qadhafi demonstrators protesting outside. WPC Fletcher was killed outright.

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The slaying caused uproar and hit the headlines around the world. Condemned in the world's media and British Parliament, all Libyan diplomats were expelled by a furious Home Secretary. The only problem with the Home Secretary's understandable indignation was that the Libyan gunman didn't shoot Yvonne Fletcher.

The Fletcher killing occurred out of the blue, and singularly changed British political and public opinion overnight. Open season was declared on Qadhafi and Libya by the US and, most importantly, was supported by Britain. The rest of Europe kept silent and sulked, having been out-manoeuvred. With the aid of a single bullet, the Reagan administration's 'destabilisation' plan against Qadhafi was back on track.

DISCO INFERNO PROVOKES TROUBLE IN TRIPOLI

Eighteen months after Fletcher's assassination, 40 US warplanes screamed across the night sky above Tripoli and Benghazi. Of those, eight F-111 bombers had been launched from bases in East Anglia, England, with the blessing of Prime Minister Margaret Thatcher and a still-enraged British population. Each bomber carried four 2,000-pound laser-guided 'smart' bombs. In all, 32,000-pounds of high-explosive ordnance were explicitly targeted to kill Qadhafi. Miraculously, he escaped unhurt, but his fifteen-month-old daughter was killed and two adopted sons badly injured.

The Reagan administration loosed the warplanes on Libya following the bombing of La Belle Discothèque in West Berlin nine days earlier. One US serviceman and a young Turkish woman had been killed outright and 230 people injured. The disco was a known hangout for off-duty US servicemen.

President Reagan claimed he had irrefutable proof of Libyan sponsorship of the atrocity. Despite this claim, no evidence was ever submitted by the Reagan administration to support its allegations. A host of well-informed individuals and 'sources' doubts any proof ever existed—except in the fevered imagination of CIA boss, Bill Casey. Conservative MP Sir Teddy Taylor regards the American allegations as "total rubbish".

MEDIA REVELATIONS

In April 1996, Britain's Channel Four 'flagship' documentary programme *Dispatches*, in a massively researched broadcast, revealed that WPC Fletcher had been murdered by elements of British and American intelligence. The purpose of the slaying, as outlined earlier, was to 'shape' public opinion and, importantly, pre-empt parliamentary indignation for the later bombing of Tripoli by British-based US warplanes. Disgracefully, these astonishing revelations went unreported by the media.

The film, made by the highly regarded Fulcrum Productions, was the subject of a debate in the House of Commons on 8 May 1996. MPs Sir Teddy Taylor and Tam Dalyell demanded the government initiate a full inquiry. Responding for the government, Home Office Minister of State David Maclean described the *Dispatches* programme as "preposterous trash". In doing so, he called into question the reputations of leading ballistics experts and gunshot specialists—and carefully avoided reference to information provided to the documentary team by well-placed, and knowledgeable, intelligence sources. It was a white-knuckle

statement that hopefully, one day, will boomerang back on him.

Fulcrum learned that British and US intelligence had established a major surveillance post adjacent to the Libyan People's Bureau, at No. 8 St James's Square. This post had been 'active' for at least six weeks prior to the shooting, with up to 40 individual intelligence officers present—but on the morning of the shooting, the post was abandoned. Moreover, Fulcrum also learned that the demonstration outside the Libyan Bureau was phoney: the demonstrators belonged to a CIA front organisation.

Two additional facts were discovered. Firstly, British and American intelligence believed that Colonel Qadhafi had sanctioned his London Bureau to shoot at the demonstrators, as they had intercepted a 'secret' message granting authorisation. Secondly, the CIA and MI5 knew precisely the calibre of weapon to be used. Both intelligence agencies had 'penetrated' the Bureau and had Libyan 'sources' supplying information to them.

Crucially, Fulcrum Productions learned beyond doubt that the bullet that killed Fletcher had been fired from the upper floor of No. 8 St James's Square—the location of the surveillance post. Ballistics experts consulted by the documentary team confirmed the bullet's entry track to have come from No. 8.

The team also learned that the bullet was adapted to fire with "terminal velocity". This technique—a speciality of SAS 'shooters'—is achieved by removing some of the explosive propellant

from the cartridge. The result is a quieter shot, similar to using a silencer. A side-effect of a bullet fired in this manner is that it flies more slowly and 'tumbles' as it strikes the target, wreaking havoc as it rips through soft tissue. In every respect it is a 'killer' shot, where chances of survival are so slim as to be negligible. The information on the bullet's terminal-velocity characteristics was also confirmed by independent experts.

In April 1996, Britain's Channel Four 'flagship' documentary programme *Dispatches*, in a massively researched broadcast, revealed that WPC Fletcher had been murdered by elements of British and American intelligence.

A CYNICAL SECRET CABAL

A well-placed and reliable 'source', interviewed by this writer, explained why WPC Fletcher was targeted. Intelligence operatives believed Qadhafi had authorised a 'hitman' to let loose with a Sterling automatic weapon against CIA-funded demonstrators gathering outside Libya's London Bureau. This information was gleaned with the aid of signals intelligence (SIGINT) intercepts and human intelligence (HUMINT) sources inside the Bureau itself.

The great worry amongst the secret cabal who planned the assassination was that the random killing of Arab protesters would not be sufficient to force the British Home Secretary to expel all Libyan diplomats. It was argued that targeting a British "Bobby", especially a policewoman, would do the trick. Such appalling cynicism is the handmaiden to the intelligence community as well as heartless politicians who believe the end justifies the means.

The 'source' also explained that it was an "off the books" hit, and that "elements" inside the British and American intelligence communities were "out of control". But the suspicion remains that someone with power and influence gave 'a nod and a wink' to the operation. It is just not credible to suppose otherwise.

The key to this convoluted reasoning was the cabal's fear that the Home Secretary, Leon Brittan, would not act as required without immense public and political pressure to jog him along. This

[NEXUS submitted this article prior to publication to the Libyan Arab Cultural Centre in Melbourne, Australia. They had these points to add. Ed.]

Re: THE GULF OF SIRTE (SIDRA) INCIDENT

The events of August 1981 should also be considered in the light of previous US actions. An analysis of US foreign policy under the Reagan administration, entitled *From El Salvador to the Libyan Jamahiriya* (published by Third World Reports, UK), states:

"In a move seemed designed to raise tensions in the Middle East, and perhaps to provoke a Libyan military response to justify a joint US/Egyptian invasion of the *Jamahiriya*, units of the US Sixth Fleet violated Libyan sea and air space on four consecutive days from 10 March 1981. Involved were two aircraft carriers, ten other military vessels and several squadrons of carrier-borne F-14 fighters.

"The Libyans have been careful to avoid a military response to the American provocations, but the entry of American planes and shipping into Libyan territory could easily have provoked a response from the Libyan air force were the *Jamahiriya* not concerned with avoiding a major pretext for US intervention and a serious confrontation in the region.

"The March incidents are not the first time that the United States has attempted to provoke the Libyans into a response. In September 1980, Washington admitted that it had sent spy planes to the very edges of Libyan airspace. The *International Herald Tribune* referred to two confrontations in less than a week, involving a C-135 plane escorted by an F-14 fighter 'armed with Phoenix air-to-air missiles'. According to the report, an additional two Navy F-14 planes were launched from the John F. Kennedy aircraft carrier when Libyan planes intercepted the Americans. The paper said that a US Air Force C-135 electronic eavesdropping plane was involved in 'flying at the edge of Libyan airspace'."

Jonathan Bearman, a British journalist, wrote one of the most accurate assessments of Libya. About the incident of 19 August he says:

"The collision finally came in August. A giant battle formation from the Sixth Fleet, led by a nuclear-powered aircraft carrier, *Nimitz*, sailed into the Gulf of Sirte to conduct further exercises specifically authorised by the White House. On 19 August, the Libyans responded by sending up two SU-22 bombers to monitor movements. Without warning, both planes were attacked and shot down by F-14s from the carrier *Nimitz*'s Black Ace Squadron. Subsequent American claims that the action was pre-emptive are belied by the Pentagon's own admissions that the Libyan pilots had received no orders, transmitted by radio, to open fire on the American planes or fleet. Had the Libyans wanted to engage the Americans, they would more likely have despatched MiG or Mirage fighters.

"All the evidence to emerge since has pointed to deliberate American provocation. Before the incident occurred, the Pentagon warned that the exercises would be held in a 3,200-square-mile zone. The Libyans appear to have acted when the F-14s exceeded this range. That much was revealed during a press conference aboard the *Nimitz* on 24 August, when Vice-Admiral Rowden admitted that the clash had occurred outside the designated area. Adding to his words, Rear Admiral James E. Service said: 'About the closest we came was about 25 miles to their coast.' Previously, the American command had insisted that the incident arose some 60 miles out, within the declared zone." (*Qadhafi's Libya*, Zed Books, London, UK)

Re: THE LONDON EMBASSY SIEGE

The Libyans have always maintained there was never any such secret message granting authorisation for their London Embassy to shoot at the demonstrators in April 1984.

Libya's external security agency claims that the Israelis were manufacturing radio messages to be conveniently intercepted by Western sources and used as evidence of Colonel Qadhafi's 'crazy terrorist behaviour'. Interestingly, this is covered in detail in *The Other Side of Deception* by Victor Ostrovsky, an ex-Mossad (Israeli Intelligence) agent.

More obviously, though, why would the Libyan leader authorise the Libyans in the London Embassy to shoot on the demonstrators? Given all that had transpired under the Reagan administration, he knew that this would invite a severe reaction by the West against Libya. Nothing was to be gained for Libya by shooting a few paid *provocateurs*, but such an incident would, and did, cement the image of Colonel Qadhafi as a 'madman'.

In the days and months leading up to April 1984, the Libyans in the UK were subject to widespread harassment. Libyans studying in the UK were subjected to detention, house searches and other harassment. Just prior to the April shooting, Libya issued a statement to the British press to the effect that "daily, we receive telephone calls from our students and trainees, saying that the British police search them and harass them and take arbitrary measures against them".

(Further information on Libya can be obtained from the Libyan Arab Cultural Centre, PO Box 373, Brunswick, Vic. 3056, Australia.

E-mail: jamahir@peg.apc.org Web: <http://www.peg.apc.org/~jamahir>

is the rationale of someone with a well-developed sense of political reality.

After the shooting, Brittan immediately ordered an investigation—which has remained under lock and key ever since. Not long afterwards, sordid stories began to circulate amongst the British media that the Home Secretary had unusual sexual appetites. The rumours were fed to the satirical magazine, *Private Eye*, whose editors recognised the handiwork of the security service and refused to publish the allegations. However, within a year, Leon Brittan was forced from office for his part in the Westland helicopter debacle.

With Western European objections so neatly taken care of, Qadhafi's demonisation went into full gear. The anachronistic Bedouin was rapidly elevated from 'useful' to 'primary' Middle Eastern 'scapegoat'. At the same time, as a result of the Libyan bombing, European governments learned just how hard the US was prepared to play in pursuit of domestic politics and wider foreign policy. Tarring Qadhafi as the world's 'bad boy' suited the selfish interests of the political power elite in the US and was an added bonus when other illegal CIA Middle East 'covert ops' went belly-up. One such operation was the CIA-protected heroin pipeline operating from the Middle East to the USA.

CRACKS IN THE MIDDLE-EAST DRUGS PIPELINE

A recurring problem for President Reagan was his inability to rescue the US hostages held in Lebanon by HizbAllah. Hanging like a dark cloud over his otherwise successful term of office, the hostage problem was turned over to Lt Colonel Oliver North to resolve. North, a medium-ranked military officer with close personal ties to the CIA's Bill Casey, was the administration's global "Mr Fixit". He, in turn, called on the services of his old friend, Monzur al-Kassar—a Syria-born 'big time' narcotics and arms trafficker. Earlier, the Syrian had assisted North in his time of need by brokering a large shipment of weapons to the CIA-backed Nicaraguan Contras. It earned him a lot of kudos inside the administration.

Lebanon's Beqa'a Valley is a fertile and productive area specially suited to growing opium poppies. Rif'at al-Asad, the brother of Syria's President Hafiz al-Asad, was widely known to have been in charge of Syria's narcotics enterprise. As the "Supremo" of the Beqa'a Valley's massive opium industry, he was also a paid 'asset' of the CIA and was being 'groomed' to succeed his elder brother as President. He was

also an extremely close friend of al-Kassar. It is widely believed that the influx of 30,000 Syrian troops into the Beqa'a Valley during the 1980s had as much to do with protecting the lucrative opium fields as with separating Lebanon's warring factions.

Al-Kassar agreed to negotiate on behalf of the US for the release of the US hostages. His side of the deal was to get an agreement that the US would protect the Syrian drugs pipeline that shipped through Frankfurt airport to the USA. The CIA allegedly established a group, known as "CIA One", which would oversee and protect the drugs route. If publicly discovered, the response was to say that the 'protected' drugs shipments were part of a Drug Enforcement Administration (DEA) 'sting' operation, dedicated to tracking distribution networks inside the USA.

Unknown to North and his cohorts, there was also a secret five-man DIA team working in Lebanon. The team, headed by Major Charles "Tiny" McKee, was independently tasked with locating and rescuing the US hostages. During the course of his work, McKee stumbled across al-Kassar's CIA One-protected heroin network. Reporting his 'discovery' to CIA HQ at Langley, and outraged at the lack of response, McKee booked his team on a flight home. At this point, al-Kassar learned of McKee's activities and was also informed of his flight plans. Anxious that McKee would put a stop to his activities, he contacted his CIA One handlers who, in turn, communicated with their 'control' in Washington.

CONSPIRACY ON THE LOCKERBIE TRAIL

Against this insidious backdrop, other, unrelated, covert plans were being hatched. Following the July 1988 shoot-down of an Iranian Airbus by the US Navy battlecruiser *Vincennes*, hard-line Iranian ayatollahs demanded swift retaliation for the 290 lives lost. They hired the Syria-based Popular Front for the Liberation of Palestine, General Command (PFLP-GC), for a tit-for-tat attack. Led by Ahmed Jibril, and with a US\$10 million Iranian bounty, the PFLP-GC searched for a suitable target. An expert at bombing aircraft, Jibril soon learned of al-Kassar's Frankfurt-based dope pipeline and persuaded al-Kassar to place a bomb inside the heroin-laden suitcase. Pan Am Flight 103 was scheduled for destruction.

Meanwhile, Germany's Federal Police, the Bundeskriminalamt (BKA), received a warning that a bomb was to be substituted for the dope shipment aboard Flight 103. They alerted CIA One, who passed the information on to their Stateside 'control'. The reply came back: "Don't worry about it. Don't stop it. Let it go."

On 21 December 1988, Pan Am's Jumbo 747, "Maid of the Seas", exploded high above the Scottish village of Lockerbie. All 259 passengers perished. A further 11 people died as wreckage from the aircraft hurtled down to earth.

Within hours, a host of CIA agents arrived at the crash scene. It is thought that the CIA search team arrived via helicopter from a US Special Forces facility located at Machrihanish, on the Mull of Kintyre.⁵ The speed of their arrival suggests they had foreknowledge of the bombing. In any case, the CIA agents, dressed in Pan

Am overalls, set about ransacking the crash sight in a desperate search for incriminating evidence. For two days they searched for the luggage of the dead DIA team and frantically sought the suitcase containing the heroin shipment. One suitcase was recovered, flown out and later returned empty, to be 'rediscovered' by the forensic team scouring the wreckage. It belonged to Major Charles McKee. Curiously, one unidentified body was snatched from the wreckage and never returned.

Les Coleman believes it would be wrong to blame the CIA *in toto* for the Lockerbie atrocity. Intelligence outfits do not work as cohesively as many outsiders believe. There is a great deal of rivalry and fragmentation at work. DCI Bill Casey had plenty of detractors inside the monolith he directed. Some worked hard, feeding their favourite journalists with unattributed information that was designed to damage Casey and, hopefully, lead to his removal. Others were known to operate as part of a small and secretive core that has variously been identified as "the Enterprise" or "the Octopus". The latter is said to operate with organised crime and leading politicians who covertly traffic in guns, drugs, laundered money and any other commodity that can generate massive profits. Whether the proceeds of these illegal activities are siphoned back into the 'black' budgets of the CIA, or fill the pockets of participants, or both, isn't entirely clear.

Despite Coleman's caution, the CIA's infamous history—stretching over 50 years—clearly suggests that US foreign policy and private gain 'coalesce' into a game plan that benefits various parties. Some 'intelligence watchers' point to the wealth of some long-term CIA officers and ask how they amassed their fortunes based on salaries of US\$60,000 a year. It is a valid question that can equally be addressed to former and serving politicians and senior government bureaucrats.

CORRUPTION BEHIND THE ANTI-LIBYA CAMPAIGN

By attributing the responsibility for Lockerbie to Qadhafi, the US administration was following in the well-worn footsteps of many predecessors in similar situations. It's a technique as old as the hills. Caught virtually red-handed in massive illegality, the first thought is to cast around for a suitable scapegoat.

As Lester Coleman said when I first spoke to him, Qadhafi is an easy target. Independently-minded and unwilling to align himself with US Middle Eastern policy, he became a target of the US. His past bankrolling of 'terrorist' causes—and one-time expansionism—also did him no favours. It's a case of, "If you're not for us, you're against us."

Sitting on vast reserves of crude oil is also a significant factor for Libya's treatment at the hands of the US. The fact that most of this oil flows to Western European oil companies clearly doesn't cut much ice with the US. Rivalry between the European and US business elite is as intense as ever. US oil companies can't be pleased that they are effectively out of the picture. In that sense

Sitting on vast reserves of crude oil is also a significant factor for Libya's treatment at the hands of the US.

The fact that most of this oil flows to Western European oil companies clearly doesn't cut much ice with the US.

Rivalry between the European and US business elite is as intense as ever.

Continued on page 92

Margarine, Fatty Acids and Your Health

To maintain good health it is important that we have the correct intake of omega fatty acids in our diets.

Hydrogenated fats like margarine are non-foods with toxic effects and should be avoided at any cost.

by Dane A. Roubos, D.C.
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5554 Nantucket Place
Minnetonka, MN 55345, USA
Phone: +1 (612) 937 5029
E-mail: 76033.313@compuserve.com

HEALTH FOOD LABELS MAY DECEIVE

Have you ever spent extra money to purchase a 'higher-quality' health food or vitamin product, only to discover some time later that it wasn't all it was claimed to be? It has happened in our family more than once. Our most recent experience was with a line of vegetable oils sold in health food stores and co-ops. The attractively labelled bottles touted their special processing techniques, implying low temperatures and the superior quality of their product. We had used their canola oil for many years when I decided to write the company with some questions and request information on their oils.

We were shocked to find out that the "cold-pressed" and "lightly refined" canola oil was subjected to the same high temperatures (450°-500° Fahrenheit, or 232°-260° Celsius) and most of the chemical processing steps suffered by regular grocery store oils! The main difference was that they didn't use chemical solvents to extract the oil from the seeds or add preservatives or defoamer.

Disappointed, and determined to find a source of healthy oils for my family, I began a search for accurate information on the production of food oils to supplement my scanty knowledge. This article is the culmination of that exploration to date, and will provide you with information you need to make healthier selections of foods and oils for your family.

THE IMPORTANCE OF FATTY ACIDS

Fatty acids are essential for our cells to function normally and stay alive. The cell membranes allow the passage of necessary minerals and molecules in and out of our cells. Healthy cell membranes discourage dangerous chemicals and organisms like bacteria, viruses, moulds and parasites from entering the cell. These membranes also maintain chemical receptor sites for hormones, the body's crucial messengers. Fatty acids are involved in countless chemical processes in our bodies and are used as building blocks for certain hormones.

Two types of fatty acids—omega-3 and omega-6—cannot be made by our bodies and therefore must be obtained through our diets. They are called "essential fatty acids" (EFAs), and if we have an adequate supply we can use these EFAs to manufacture the other fatty acids we need.

EFA supplementation has been helpful to many people with allergies, anaemia, arthritis, cancer, candida, depression, diabetes, dry skin, eczema, fatigue, heart disease, inflammation, multiple sclerosis, premenstrual syndrome (PMS), psoriasis, sluggish metabolism, viral infections, etc., and in easing the addiction recovery process.

TRANS- FATS AND CONFUSED CHEMISTRY

Naturally-occurring fatty acids contain double bonds of a particular configuration, referred to as "cis-" by biochemists. The *cis-* causes the molecules to be bent so that the two hydrogen atoms are on the same side of the double bond. This means the bonds between the molecules are weaker due to their irregular shape, resulting in a lower melting point—or, in supermarket shopper lingo, they are solid at room temperature. Fats with either *trans-* double bonds or no bonds ("saturated") are solid at room temperature.

Margarine is made by adding hydrogen atoms to the fat molecules to make them more saturated, raising the melting point of the fat so it remains a solid at room temperature, i.e., the margarine won't run all over the table. This process, called "hydrogenation", requires the presence of a metal catalyst and temperatures of about 500°F (260°C) for the

THE CHEMISTRY OF FATS

Fats are carboxylic esters derived from the single alcohol, glycerol [C₃H₅(OH)₃], and are known as "glycerides". Each fat is made up of glycerides derived from many different carboxylic acids (fatty acids). There are three fatty acid chains in each molecule of fat. The proportions of the various acids differ in each type of fat, while each fat has its characteristic composition which differs very little between samples.

With only a few exceptions, the fatty acids are all straight-chain compounds that vary between three and 18 carbon atoms. Besides "saturated" fatty acids, there are also "unsaturated" fatty acids containing one double bond or more per molecule.

When one of these fatty-acid chains in a fat is replaced with a phosphate group, we get substances called "phospholipids". These derivatives of fats are very important as they make up the membranes of cells.

Morrison and Boyd, in their textbook, *Organic Chemistry*,* had the following to say about fats and cell membranes:

"Phospholipids are found in the membranes of cells—all cells—and so are a basic structural element of life." They also form skins around all the organelles within our cells, such as mitochondria, the nucleus, nucleolus, lysosomes, Golgi bodies, etc. "This vital function depends on their physical properties."

One end of the molecule dissolves in water and the other doesn't. Therefore, in cell walls they exist in a bilayer. The phosphoglyceride ends form the outside of the layer, as these dissolve in water. The bulk of the bilayer is made up of the fatty acid chains. "Non-polar molecules can therefore very easily dissolve and pass through this bilayer, but it is an effective barrier to polar molecules and ions."

So how do these membranes very selectively control the passage of substance in and out of the cells? "The answer...seems to involve the proteins that are found in the cell membrane embedded in the bilayer, and even extending clear through it." These help with the active transport of certain substances.

"Now, if the transport protein is to do its job, it must be free to move within the membrane. The molecules, while necessarily aligned, must not be locked in a rigid crystalline lattice—as they would be if the fatty acids were saturated (or in the *trans*-form). Actually, some of the chains in the membrane phospholipids are unsaturated, and these, with their *cis*- double bonds and the accompanying bend, disrupt the alignment enough to make the membrane semi-liquid at physiological temperatures." From this explanation we can begin to understand the huge importance of these *cis*-unsaturated fatty acids to all the basic processes of life.

Cholesterol is another molecule found in the cell membrane between the fatty-acid chains. Its function is to compensate for changes in membrane fluidity. It can be added to stiffen a membrane that is too loose, or removed to fluidise a membrane that is too loose. — Eds.

reaction to take place. It causes about half of the *cis*- bonds to flip over into a *trans*- configuration.

Hydrogenation became popular in the US because this type of oil doesn't spoil or become rancid as readily as regular oil and therefore has a longer shelf-life. You can leave a cube of margarine sitting out for years and it will not be touched by moulds, insects or rodents. Margarine is a *non*-food! It would appear that only humans are foolish enough to eat it! Because the fats in margarine are partially hydrogenated (i.e., not fully saturated), the manufacturers can claim it is "polyunsaturated" and market it to us as a healthy food.

Many other fatty chemicals are also created when oils are partially hydrogenated. In *Fats that Heal, Fats that Kill* (p. 103), Udo Erasmus stated: "So many different compounds can be made during partial hydrogenation that they stagger the imagination... Needless to say, the industry is hesitant to fund or publicize thorough and systematic studies on the kinds of chemicals produced and their effects on health."¹

Erasmus also quoted a statement about hydrogenation, made by Herbert Dutton, one of the oldest and most knowledgeable oil chemists in North America. It basically boils down to this: because of the known and unknown health effects of these hydrogenation by-products, government health regulations would not allow the process to be used for making edible products if it were to be introduced today.

Another 'side-effect' of hydrogenation is that a residue of toxic metals, usually nickel and aluminium, is left behind in the finished product. These metals are used as catalysts in the reaction, but they accumulate in our cells and nervous system where they poison enzyme systems and alter cellular functions, endangering health and causing a wide variety of problems. These toxic metals are difficult to eliminate without special detoxification techniques, and our 'toxic load' increases steadily with small exposures over time. Since they are increasingly found in our air, food and water, the cumulative doses can add up to dangerous levels over time.

Since *trans*- fats don't occur in nature, our bodies don't know how to deal with them effectively and they act as poisons to crucial cellular reactions. The body tries to use them as it would the *cis*- form, and they wind up in cell membranes and other places they shouldn't be.

In recent years, measurements of *trans*- fats in the membranes of human red blood cells have been as high as 20 per cent, when the figure should be zero. While red blood cells were used because they're easy to access, it's safe to assume that most other cell membranes in the body also contain these unnatural fats.

Trans- fatty acids in cell membranes weaken the membrane's protective structure and function. This alters normal transport of minerals and other nutrients across the membrane and allows disease microbes and toxic chemicals to get into the cell more easily. The result: sick, weakened cells, poor organ function and an exhausted immune system—in short, lowered resistance and increased risk of disease.

Trans- fats can also derail the body's normal mechanisms for eliminating cholesterol. The liver normally puts excess cholesterol in the bile and sends it to the gall bladder, which empties into the small intestine just below the stomach. *Trans*- fats block the normal conversion of cholesterol in the liver and contribute to elevated cholesterol levels in the blood. They also cause an increase in the amount of low-density lipoproteins (LDLs), considered to be one of the main instigators of arterial disease (hardening of the arteries). Meanwhile, *trans*- fats lower the amount of high-density lipoproteins (HDLs) which help protect the cardiovascular system from the adverse effects of the LDLs. *Trans*- fats also increase the level of apolipoprotein A, a substance in the blood which is another risk factor for heart disease. Indeed, *trans*- fats have now been shown to cause even worse problems than saturated animal fats.

Another adverse effect of *trans*- fats in the diet is an enhancement of the body's pro-inflammatory hormones (prostaglandin E2) and inhibition of the anti-inflammatory types (prostaglandin E1 and E3). This undesirable influence exerted by *trans*- fats on prostaglandin balance may render you more vulnerable to inflammatory conditions that don't want to heal! Prostaglandins also regulate many metabolic functions. Tiny amounts can cause significant changes in allergic reaction, blood pressure, clotting, cholesterol levels, hormone activity, immune func-

tion and inflammatory response, to name just a few.

Many of these problems with *trans*- fats have been known or suspected for 15 to 20 years, but have been largely ignored in the US. In Europe, *trans*- fats are restricted in food products, and some countries allow no more than 0.1 per cent *trans*- fatty acid content. In contrast, margarines in the US may contain up to 30 to 50 per cent! Of course, the food industry denies there is any problem with this.

Meanwhile, scientific evidence continues to mount that *trans*-fats contribute to heart disease and possibly other conditions as well. Even the conservative *Harvard Health Letter* referred to them as "the new enemy".²

VESTED INTERESTS

According to Russell Jaffe, M.D., a noted medical researcher, hog farmers will not feed *trans*- fats to their animals because the pigs will die if they eat them. When Dr Jaffe contacted the US Department of Agriculture, he found that it knew all about this but was not interested in the possible human effects since this area was not under its jurisdiction. The US Food & Drug Administration (FDA) hasn't done anything about it, either. The fact that the food industry has succeeded in keeping a lid on public awareness of these facts is testimony to the political power it wields in governmental and scientific circles.

The food industry funds a great deal of research. People in the research community know that you can often predict the outcome of a study if you know who is funding it. In that light, it's unwise to accept blindly the press releases on 'the latest research' without considering who paid for it. There are some rather scientific-sounding foundations out there that are basically 'front' organisations for the food industry.³

FATS IN OUR DIETS

Margarine isn't the only grocery store item with a significant amount of *trans*-fats. Any 'food' that lists "hydrogenated" or "partially hydrogenated" on the label contains *trans*- fats and should be avoided. You may be surprised to discover how many products in your kitchen contain *trans*- fats. They include most baked goods such as bread and crackers, shortenings like margarine and Crisco, refined vegetable oils and most brands of peanut butter. Most peanut butter brands contain sugar or corn syrup which stresses the pancreas and is easily converted to fat by the body.

So be sure to read the labels on packaged foods and avoid those with hydrogenated or partially hydrogenated oil!

Also avoid products containing cottonseed oil. Cotton is not considered a food crop and is heavily sprayed with highly toxic pesticides—some of which wind up in the oil. According to Dr Jaffe, cottonseed oil also contains toxic fatty acids similar to those present in rape seed oil about 30 years ago and suspected of causing several deaths before being taken off the market. These fatty acids caused illness when fed to dogs and pigs. Cottonseed oil is commonly used to fry potato chips, and is found in numerous processed foods.

Currently, the dominant medical opinion is that fats are bad for us and should be restricted in our diets. Given the types of fats usually consumed in America, this is probably a good idea. But several studies have shown that the quantity of fat is not as important as the *quality* of fat and the *balance* of the fats in relation to

each other. In fact, the essential fatty acids (mentioned earlier) help control the types of cholesterol made by the body and help prevent heart disease. So, reducing saturated fats and unnatural *trans*- fats in our diets, while increasing the essential fats, would be a more prudent policy. Many scientists are now advocating this shift in emphasis.

Edward Siguel, M.D., Ph.D., is an award-winning researcher who was invited to investigate fatty acids in the Framingham Cardiovascular Offspring Study. He recently authored a book, *Essential Fatty Acids in Health and Disease*.⁴ Dr Siguel has developed a sensitive test to determine the amounts of the various fatty acids found in humans, and has found a definite correlation with *trans*- fats and heart disease. He has also found that many people with heart disease have low levels of EFAs. In a presentation at the Second Annual Symposium on Functional Medicine in 1994, he stated that insufficiency of EFAs may underlie many of the chronic diseases prevalent in Western societies. He also cautioned that low-fat diets not based on whole foods might be hazardous: "Individuals who maintain normal or low body-weight by eating low-calorie, low-fat, processed foods, such as supermarket cereals, breads and pasta, are at high risk for EFA insufficiency...compounded by the use of hydrogenated oils, leading to elevated levels of circulating *trans*- fatty acids..."

The breast milk of many US mothers also shows an excess of *trans*- fats and low omega-3 fatty acid content. Dr Donald Rudin, in his co-authored book, *The Omega-3 Phenomenon*, stated: "American mothers produce milk that often has only one-fifth to

one-tenth of the omega-3 content of the milk that well-nourished, nut-eating Nigerian mothers provide their infants."⁵

A revealing study was recently published by the Nutrition Research Division of Health Canada. The researchers analysed the milk of 198 lactating mothers across Canada and found that *trans*- fatty acids averaged 7.2 per cent of total fatty-acid content, with a range of 0.1 to 17.2 per cent. Further analysis of these *trans*- fats showed that their major source was

partially hydrogenated vegetable oils (that means margarine). They also noted that elevation of these *trans*- fats occurred at the expense of the EFAs, thus placing the infant in double jeopardy during a crucial period of development.⁶

Both types of EFAs are necessary for proper development of foetal and infant tissues, especially the nervous system. According to John Finnegan, in *The Facts About Fats*, the omega-3s in particular affect the parts of the brain that relate to learning ability, anxiety or depression, and auditory and visual perception. They also aid in balancing the immune system.⁷ A 1991 Mayo Clinic study of 19 'normal' pregnant women, eating 'normal' diets, showed that all of them were deficient in the omega-3 fatty acids and, to a lesser extent, the omega-6s. These researchers recommended that the omega-3 fatty acids be supplemented in every pregnancy, and that women avoid refined and hydrogenated fats during pregnancy.⁸

A study published in the *American Journal of Clinical Nutrition* showed a dramatic difference between the heart-disease rates of populations in northern and southern India.⁹ The northerners were meat-eaters and had high cholesterol levels. Their main source of dietary fat was ghee (clarified butter). The southerners were vegetarians and had much lower cholesterol levels. Present-day 'wis-

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dom' would predict the vegetarians to have the lower rate of heart disease, but, in fact, the opposite was true. The vegetarians had 15 times the rate of heart disease when compared to their northern counterparts! What was the reason for this surprising difference? Aside from meat versus vegetables, the major dietary difference was that the southerners had replaced their traditional ghee (a real food) with margarine and refined, polyunsaturated vegetable oils. Twenty years later, the British medical journal the *Lancet* noted an increase in heart-attack deaths amongst the northern Indians.¹⁰ The northerners had also largely replaced the ghee in their diets with margarine and refined vegetable oils.

One hundred years ago, heart disease was virtually unknown. Today, two-thirds of US citizens develop heart disease. Something has clearly gone wrong with the way we are living, and one of the main factors could indeed be the introduction of overrefined, over-processed, devitalised oils.

Other studies support this idea. For instance, a study conducted at the Harvard School of Public Health indicated that intake of partially hydrogenated vegetable oils may contribute to the risk of heart attack.¹¹ Research by Dr Siguel has also given more weight to the theory that dietary *trans*- fatty acids are a risk factor for heart disease.¹²

A report by the Danish Nutrition Council said that studies suggest that the consumption of *trans*- fatty acid from margarine is equally, or perhaps more, responsible for the development of arteriosclerosis than saturated fatty acids. They recommended reducing the *trans*- fatty acid content in all Danish margarine products to 5 per cent or less (it was then 0 to 30 per cent).¹³

Another study done by the Department of Nutrition at the Harvard School of Public Health in Boston, analysed the diets of 239 patients admitted to Boston hospitals for their first heart attack, and compared them with the diets of 282 healthy control subjects. After adjusting for several lifestyle variables, they found that margarine intake was significantly associated with the risk of myocardial infarction.¹⁴

A Harvard Medical School study followed more than 85,000 women over an eight-year period. The researchers compared the diets of those who developed heart disease over that time with those who did not. They found that major dietary sources of *trans*- fats, such as margarine, were significantly associated with higher risks of coronary heart disease.¹⁵

PROBLEMS WITH COMMERCIAL PROCESSING

Refined polyunsaturated vegetable oils have been very popular in the US since the anti-cholesterol fad began many years ago and the medical profession began promoting their use. When properly prepared and utilised, some of these oils are healthful sources of EFAs. Unfortunately, the standard commercial refining process destroys the EFAs and creates high levels of *trans*- fatty acids, while removing important natural constituents and protective agents like minerals and vitamin E.

In *The Facts About Fats* and *Fats that Heal, Fats that Kill*, John Finnegan and Udo Erasmus describe the usual commercial refin-

ing process for vegetable oils. It begins with seeds that may contain high levels of pesticides and herbicides. The seeds are crushed and subjected to a series of chemical treatments at temperatures up to 520°F (271°C). These treatments include the use of toxic solvents, caustic soda, preservatives and defoamers, and they result in the destruction of essential fatty acids, loss of vitamins and minerals, and the formation of *trans*- fatty acids and free radicals. This is exactly the opposite of what is desirable. It is all in the name of longer shelf-life and consumer acceptance (what's left looks clean and pretty!). This also happens to the oils used in processed foods, which means most everything that comes in a can or a box. *Remember to read those labels!*

According to Finnegan and Erasmus, the "cold-pressed" or "expeller-pressed" oils available at health food stores are no guarantee of quality. Expeller-pressing still generates temperatures up to 200°F (93.3°C), and most of these oils are then refined and deodorised using basically the same nutrient-destroying process used in commercial 'grocery store' oils.

Be wary of claims like "certified organic", as there have been instances of fraudulent misrepresentation in this regard. Some companies have been caught lying about the source of their seeds and using regular commercial seeds instead of organic ones. There have even been cases of companies simply rebottling regular oil or mayonnaise with a 'health food' label and charging higher prices.

Finnegan mentions two reputable certifying agencies: FVO (Farm Verified Organic), and OCIA (Organic Crop Improvement Association). He reports that only two companies meet his criteria for production of healthful oils: Omega Nutrition in Ferndale, WA (phone 1-800 661 3529), and Flora, Inc. in Lynden, WA (phone 1-800 446 2110 or (360) 354 2110). He also contacted one of the most well-known producers of 'health food' oils in the nation, but they declined to discuss

their oil processing methods and refused to allow him to visit their facilities.

Note that light and oxygen, in addition to heat, also cause extensive damage to oils. According to Erasmus, light destroys oil 1,000 times faster than does oxygen, so it is important to purchase unrefined oils in black, lightproof bottles. Oxygen should be removed from the bottle and replaced with an inert gas, such as nitrogen or argon. Omega Nutrition packages its oils in this fashion. Flora's oils are bottled in dark glass, reducing the amount of light but not eliminating it. While considerably more expensive, they should be worth the extra money, considering the facts presented in this article.

EFA BALANCE AND OUR HEALTH

The two groups of essential fatty acids—omega-3 and omega-6—are named for their molecular configurations and where the first "unsaturated" bond occurs along the chain of carbon atoms.

Omega-6 oils are found primarily in vegetables and seeds. They are converted to the E1 prostaglandins (mentioned earlier) via several chemical steps. Most people take in enough of these

A Harvard Medical School study followed more than 85,000 women over an eight-year period.

They found that major dietary sources of *trans*- fats, such as margarine, were significantly associated with higher risks of coronary heart disease.

fatty acids, but some have difficulty converting them to the active prostaglandins. This blockage is commonly caused by excess *trans*-fats, anti-inflammatory medications like aspirin or Tylenol, or deficiencies of vitamin B6 or magnesium. An insufficiency of omega-6 EFAs can result in auto-immune problems, breast pain and lumpiness, eczema, hyperactivity in children, hypertension, inflammation and PMS. Supplementing with borage, evening primrose or black-currant seed oils will usually bypass the blocked step and provide the necessary precursor to make the desired prostaglandins.

Dr Siguel has found that the omega-3s are the more likely to be deficient in our Western diets. Because of food processing and dietary choices, the average Western diet today contains only one-sixth the amount of omega-3 fatty acids needed for healthy function—compared to a healthy balance 100 years ago. Evidence indicates that a deficiency of omega-3 fatty acids is associated with arthritis and joint stiffness, irritable bowel syndrome, PMS, prostate problems, various skin disorders as well as depression, phobias and schizophrenia.

The two main sources of omega-3s are oils from organic flax seeds and from cold-water fish (such as mackerel, sardines, tuna, trout and salmon). These fish should not be fried because of the effect of the high temperatures involved and the resultant free-radical damage. Unlike chicken and turkey, cold-water fish should be eaten with the skin on, as this is where the highest concentration of desirable fats is located.

There is some concern about eating fish frequently, due to the chemical and heavy-metal pollution in the oceans. Predatory fish concentrate these pollutants in their fatty tissues, but deep-ocean fish are usually less tainted than coastal species. Freshwater fish near agricultural, industrial or mining areas are best avoided due to their high-level intake of toxic chemicals. Farm-raised fish are fed

something akin to pet food and should be avoided; they are not as healthy and have insignificant levels of omega-3 fatty acids.

When properly processed, organic flax seed oil has the highest concentration of omega-3 fatty acids, at 57 per cent. Omega-3s are also found in certain other "unrefined" seed oils such as chia, soy and canola, but in much smaller amounts. Flax seed oil is particularly sensitive and must be processed under stringent conditions (cold, without light or oxygen), nitrogen-packed in dark bottles to avoid oxidising, and shipped and displayed in refrigerated containers.

While all unrefined, unsaturated oils should be processed, packaged and distributed in this way, the vast majority are not. The companies mentioned earlier adhere to these special methods, and you should be able to buy their oils with some assurance that you are getting a healthy product. We have used oils from both companies for the past few years and have been very happy with them. While more complicated and costly, these methods may someday play an important role in reducing many common degenerative diseases, which are much costlier in the long run especially in terms of human suffering and loss of potential.

The healthiest foods are usually organically grown and should be eaten close to their natural state. Certified organic seeds and grains are available at most food co-ops. Eating organically grown seeds and other foods is strongly recommended for minimising chemical intake and optimising nutrient content. When

consuming whole foods, we get a complex array of nutrients which naturally work together to fuel the intricate chemistry that keeps our bodies going, but many of these nutrients are normally lost in commercial processing.

Even the most painstaking human efforts to produce healthy packaged foods and oils always fall short of nature's accomplishments. The best oils are provided by nature, neatly packaged to prevent oxidation of their precious contents. Freshly-ground organic flax seeds contain fresh oil (protected by the husk), and their fibre is the richest source of certain substances called "lignans", found to have potent anticancer, antibacterial, antifungal and antiviral properties. Flax fibre has from 100 to 800 times more lignans than other fibre sources. This is an inexpensive and tasty way to ensure adequate intake of omega-3 fatty acids (see directions outlined below). If you prefer, you can purchase quality flax-seed oils in bottles or in capsules. Just make sure you know how they are processed! Flora and Omega Nutrition offer good-quality flax oils in bottles and capsules.

'THE GOOD OIL' ON HEALTHIER ALTERNATIVES

Here are several additional ways to improve your fatty acid balance and avoid the *trans*-fat trap:

So be sure to read the labels on packaged foods and avoid those with hydrogenated or partially hydrogenated oil!

- Have some freshly ground flax seeds every day. Pulverise three tablespoons of seeds in a blender or coffee grinder to yield about one tablespoon of oil (mixed in with the powder). This will approximate the suggested daily amount of omega-3 oil for an average person. It can be mixed with cereal, blended in a smoothie or added to yoghurt. You can also mix it with warm (not hot) apple juice, and add some sliced banana or other fruit to make a tasty, nutritious, pudding-like cereal that's filling and will do

wonders for bowel function! Be sure to consume the ground flax-seeds within 10 to 15 minutes to minimise the damage from oxidation. However, a note of caution: in doing allergy testing, I have seen several people (my wife and myself included) who are allergic to flax seeds, and others who are allergic to psyllium seeds which are commonly used for their fibre content.

- Use butter instead of margarine or shortening in cooking. Butter has some problems, too, such as residual hormones and pesticides, but it is a whole food. Whole foods have fat-mobilising nutrients to take care of their own fats if eaten in moderation. If you want to use butter, try to get organically-produced butter.

- An even better alternative is the organic ghee, or clarified butter, mentioned earlier. Ghee is the cooking fat most highly regarded by Indian and French chefs. It has a good aroma and will not burn, smoke or develop toxic compounds when heated.

- Organic, unrefined coconut butter is an alternative to regular butter in your diet. Omega Nutrition has this product. However, most other coconut oil products are hydrogenated. Coconut oil has been subjected to a smear campaign by commercial vegetable oil producers, but the research studies cited have used hydrogenated coconut oil, which may have skewed the results.

- Use olive oil or a 50:50 mixture of ghee and olive oil. Do not fry or sauté with "polyunsaturated" light oils such as safflower, sunflower or corn oils. They oxidise readily into damaging free-radicals at high temperatures. Free radicals are highly reactive

molecules that can tear into your cells and start nasty chain reactions that can leave behind extensive damage, including alteration of your genetic code (DNA) and formation of cancer cells. Free radicals are widely considered to play a major role in degenerative disease. While there are virtually no EFAs in olive oil, it is rich in "mono-unsaturated" fatty acids and is not so easily oxidised. Use an "extra virgin, cold-pressed, first pressing" olive oil, preferably with a greenish colour and some sediment on the bottom, which usually indicates less processing. Most co-ops carry it.

- If allergic to milk, you can often substitute a 50:50 mixture of apple sauce and organic, unrefined canola, sunflower or safflower oil for margarine or butter in recipes, which we have tried in pie crusts and cakes with great results. We used to substitute canola oil by itself, but the texture was somewhat drier and a little crumbly.

- Try non-hydrogenated peanut butter, available in some grocery stores and all food co-ops. The peanut butter will separate, with the oil floating to the top of the container. The best brand is probably Arrowhead Mills. They sun-dry their organic peanuts to avoid growth of a common mould that produces aflatoxin, which is as toxic as the name suggests. Most commercial peanuts reportedly have aflatoxin as well as pesticide residues. Almond or walnut butters contain healthier fats than peanut butter, without the mould problem. You can find them at food co-ops and health food stores.

- Buy your oil in sealed bottles and avoid the bulk oils in co-ops, since they are usually rancid (free radicals again). An oil that tastes bitter when you place a drop on your tongue is rancid and should not be consumed.

- Always refrigerate your oils after opening. Unrefined oils are best refrigerated as soon as you buy them, to prolong their shelf-life. If they are not in lightproof bottles, keep them out of the light.

- The greater your intake of unsaturated fats like vegetable oils and fish oils (EPA/DHA omega-3s), the more you need antioxidant protection against free-radical damage. If you take supple-

... most of this information about *trans-* fats has been known for many years, but [food] processors have succeeded in keeping the issue out of the public eye ...

ments of fish oil or evening primrose oil, or use polyunsaturated oils, consider taking extra vitamin E. An effective daily dose of vitamin E is about 300 to 400 IUs per day, and "mixed tocopherols" is probably the best general-purpose form to use. Many studies support its effectiveness in reducing risk of heart disease, arthritis and other free-radical-related diseases. Since vitamin C is used to regenerate 'used' vitamin E, supplementing with 500 to 1,000 mg of vitamin C a day would be prudent as well.

- The most expensive oils and supplements cannot fully compensate for an unhealthy diet and lifestyle. Use common sense and consult with a nutritionally-oriented health professional when you have health concerns. Books by Dean Ornish, M.D.¹⁶ and

John McDougall, M.D.¹⁷ offer many excellent ideas regarding diet and lifestyle, and I recommend them for basic dietary information, although their programs tend towards very low fat intake. However, to ensure adequate EFA intake you should have some raw, organic nuts and seeds along with high-quality oils (such as those mentioned above) to supplement these low-fat diets.

RAISING PUBLIC AWARENESS

There are still holdouts within the 'scientific' community, particularly those employed or funded by the

food industry, who claim there is not yet sufficient proof that *trans-* fats are dangerous, and then cite studies that justify their position. This is the name of the game in modern-day 'science' where egos and money are involved.

However, most studies currently appearing in the literature support the idea that these chemically-altered fats are harmful. In such cases of conflict, I always side with Mother Nature: she is much wiser than we will ever be!

Remember that most of this information about *trans-* fats has been known for many years, but processors have succeeded in keeping the issue out of the public eye—another example of *caveat emptor* (let the buyer beware) in the food industry. Now that you are aware of it, the rest is up to you! Good luck, and good health!

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About the Author:

Dr Dane Roubos, B.Sc., D.C., D.A.B.C.I., has been a student of nutrition for 25 years, and a practising chiropractor for the past 14 years. He is a Diplomate of the American Board of Chiropractic Internists, and currently teaches full-time at the Northwestern College of Chiropractic in Minnesota. He is committed to helping people learn how to live closer to the Earth, the spirit and their deeper selves.

Note:

This article was extracted in part from *Blazing Tattles*, vol. 5, nos 10 and 11, 1996 (see their advert this issue), and further updated by the author.

— ATMOSPHERIC ENERGY —
HARNESSING THE 'POWERS' OF THE
ATMOSPHERE

by Anthony M. Hansen

Since early times mankind has had a constant and reliable source of power in the form of the wind. Man was quick to find ingenious but simple applications for this force of nature. Obvious examples are the sail and the windmill. What is not so obvious are the underlying principles, as defined in physics books; to be more specific, the principles of thermodynamics.

Thermodynamics is connected with heat; that is to say, measurement of heat, and laws relating to the conversion of heat into mechanical work. Nature gives a wonderful example in the movement of the wind. The atmosphere basically moves because over the land, for example, the temperature can be higher than over the ocean, with the result that the hot air rises over the land and the cooler air flows in to take its place.

In thermodynamics, the terms T_1 and T_2 are frequently quoted. T_1 usually refers to a specific temperature and T_2 refers to a temperature which is less than T_1 . Otherwise expressed, the bigger the temperature difference, the more energy there is available. Applying this to the movement of the wind, if the atmospheric temperature of the Earth were the same everywhere, presumably there would be no winds.

One of the earliest attempts to harness the power of the atmosphere, apart from using the windmill and the sail, was attempted successfully by Newcomen, a Dartmouth blacksmith, and patented in 1705. The device consisted of a vertical cylinder and a piston which was connected to a horizontal beam. The other end of the beam was connected to the piston of a pump. The weight of this side of the beam was sufficient to draw the piston to the top of the cylinder. Steam was admitted from a boiler through a valve to the cylinder. When the supply of steam was turned off and some water injected into the cylinder, the result was that the steam condensed, forming a partial vacuum inside the cylin-

der. The pressure of the atmosphere acting on the top half of the piston forced it down. By continually repeating this process, a powerful machine was put to work pumping water.

In 1827, Robert Stirling took out his patent for a hot air engine which used the heat of the air. From the very start, the hot air engine offered an irresistible fascination for the inventor because even the crudest attempts with it always resulted in an efficiency far superior to that of the steam engine. This is readily explained as being due to the far greater temperature range possible working with air than is possible with steam. This is because the efficiency of an engine depends upon the limits of temperature to which the working fluid is subjected. It is practical to use a higher working temperature with air than with steam because there is no fixed relation between the pressure and temperature of air, such as exists in the case of steam.

**PUTTING COMPRESSED AIR
TO WORK**

Having reviewed at some length the various forms of machinery available, I decided as a starting point that the windmill took a lot of beating as far as reliability and power were concerned. For example, it is quite easy to obtain six to 10 horsepower from the wind.

It is obvious that power, or the rate at which work is done, has nothing to do with the quantity of work accomplished. A very

slow rate may accomplish a great deal of work, if it only keeps at it long enough, while a very high rate may be represented by a very small quantity of work, provided it be expended in a sufficiently short space of time. Thus, a windmill of only a few horsepower, compressing air by working steadily day and night for weeks and months, may compress millions of cubic feet of air and thereby perform a vast amount of work.

The air which is compressed by the windmill is stored in suitably large pressure vessels or compressed air tanks. To give an idea of size, an LP gas tank similar to the ones used in service stations is ideal. These can be pumped up to a pressure of 200 to 300 psi. This represents a considerable amount of energy stored in a pressure vessel in the form of compressed air.

A convenient way to use this compressed air is to use the pressure of the air to move a piston in a cylinder, preferably in alternate directions. This reciprocating force moves a conductor through a magnetic field, thus generating electricity. If, for example, a piston had five square inches of surface area and a pressure of 100 psi were applied to it, we would obviously have a piston in a cylinder with 500 pounds of push. In such a case, the load from the conductor going through the magnetic field ideally should be about 400 pounds resistance.

When the conditions are similar to this, the air has no choice but to give up the heat



A Dynamic Linear Mass Accelerator (DLMA Linear Engine) working prototype, producing 250 volts at 50 hertz.

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it contains and thus turn heat into mechanical work. This results in the air becoming very cold. The degree of coldness is directly proportional to the applied force and the resistance it encounters. In other words, the heavier the load, the colder the temperature.

THIRD LAW OF THERMODYNAMICS

The third law of thermodynamics states that there are four essential conditions necessary for a heat engine to work. This applies to internal combustion engines such as LP gas, petrol, diesel, steam or compressed air. These conditions are:

1) There must be a source of heat. As an example, with internal combustion engines the source of heat is the burning of fuels such as LP gas or petrol. This heat is applied to the compressed air in the cylinder at the moment of ignition. The heat of combustion causes the compressed air molecules—already at a pressure, which may be from 150 to 300 psi—to vibrate more intensely, thus increasing the pressure which is applied to the piston face. The heat energy can now be turned into mechanical work.

2) There must be a temperature difference in the process. As an example, the temperature of combustion may be 700° to 900° Fahrenheit (371° to 482° Celsius) while the temperature of the atmosphere may be 70°F (21°C). This is represented in thermodynamic terms as T_1 and T_2 —here, T_1 being 700° to 900°F and T_2 being 70°F. It can thus be seen that, with such a large temperature difference, a considerable amount of power can be developed.

3) There must be a carrier of the heat energy. This basically means that the air is a medium which carries the heat, just like a bucket can carry water.

4) There must be a method or means of turning heat into mechanical work. In this case it is the familiar piston in the cylinder, examples of which have been given in the previous essential conditions.

THE THIRD LAW APPLIED TO COMPRESSED AIR ENGINES

Applying the above conditions of the third law to compressed air engines, if a piston is driven by compressed air at 200

psi through a quarter of its stroke and then the air supply is cut off, and if the piston has to do work, it is quite easy to attain temperatures in the exhaust of minus 50°F.

This relates to T_2 in the temperature difference scale, T_1 being the temperature of the atmosphere—let's say, 70°F. It can now be seen that a considerable temperature difference exists—120°F in this case. This conforms with the second essential condition of the third law.

Having established the temperature difference, it is now necessary to feed in the heat from the atmosphere. As the atmospheric air contains the heat (condition 3), if

result that the air supply is cut off.

Having studied the various types of reciprocating engines, I decided that apart from trying to follow the third law, certain other essential features were necessary:

1) Floating valves that can slide on the reciprocating shaft, towards and away from each other. This makes it possible to vary the length of the stroke, thereby compensating for heavy loads.

2) A variable inertia system, enabling mass to be added or removed from a moving system. This is used to change the period of the reciprocating engine.

3) Heat exchanger fins. By adding fins to this type of engine, heat can be caused to flow into the engine, thus adding to its efficiency.

By applying the above-mentioned features, a simple and efficient power conversion system is possible.

CONCLUDING REMARKS

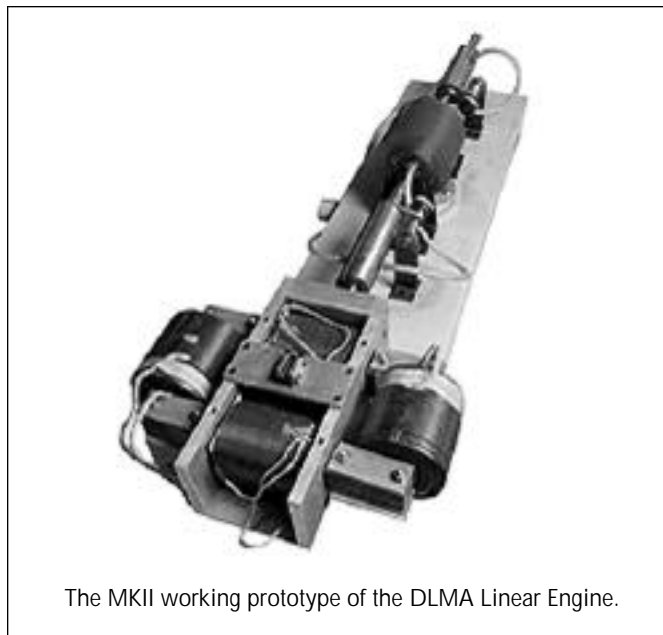
Much has been written on the subject of heat engines and their operating principles—so much, in fact, that to the casual reader it would appear that there is little, if any, part of the subject left untouched.

Yet the present-day literature may generally be divided into two classes: the non-technical and the technical. The technical literature is often so severely technical and theoretical as to obscure the underlying practical aspects. The student who is not at home with mathematical gymnastics may well be excused for being worried at an imposing array of formulae which, however beautiful and concise in themselves, possess no interest and serve no useful purpose when they fail to convey their significance.

It is my hope that the given explanations make the underlying concepts of thermodynamics—on which all heat engines work—more understandable and interesting.

For further information, contact:

Anthony M. Hansen
Linear Energy Corporation Ltd
PO Box 7217 Gold Coast Mail Centre
Bundall, Qld 4217, Australia
Phone: +61 (0)7 5574 1810
Fax: +61 (0)7 5574 1820
E-mail: linearen@OntheNet.com.au
Web: <http://www.linearenergy.com.au>
(See advert on the Inside Cover)



The MKII working prototype of the DLMA Linear Engine.

the engine has heat exchanger fins, and if they be of suitable size, heat from the atmosphere will flow into the engine and, by doing so, should be turned into mechanical work, thus adding to the efficiency of the machine.

IMPROVING ENGINE EFFICIENCY

Otto was the first to develop the four-stroke cycle and was also one of the first to propose using a so-called free piston engine running on fuel.

Some years later, in 1869, George Westinghouse patented a steam-driven free piston compressor.

This principle was improved upon by Nikola Tesla in 1894. His design used machined grooves in the piston to let in the steam or air to drive the piston. The main problem with this design is that under a heavy load the stroke will shorten, with the

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— THE SECRET SUPER-HIGH-MILEAGE REPORT — A 100-MILES-TO-THE-GALLON, SUPER FUEL-INJECTION SYSTEM

by J. Bruce McBurney

After researching and experimenting into the idea of vaporising carburetors—and the simple idea of heating the fuel to boil it, to obtain fantastic mileage improvements—I came to understand this secret of cracking the gasoline down into smaller hydrocarbons and why it really could yield unbelievable gains. I will try to explain this idea as best I can, but I am a mechanic, not a writer, so please be patient and read all the way through, that this idea can go on to all our benefit.

Our engines burn fuel in a cylinder that generates heat that exerts pressure on a piston, which is connected to a crankshaft that rotates to produce motion power.

The type of fuel used dictates the amount of propulsion (useful energy) and heat (wasted energy) generated. A fuel that explodes generates more propulsion and less heat than a fuel that burns. Describing the two basic types of fuels used in bombs, percussion and incendiary, will help explain this concept.

A percussion explosion will destroy a brick building, but not generate much heat or fire. An example is nitroglycerine, used to extinguish oil fires. The dynamics of the explosion chase the flame-front or heat of the combustion far enough away from the oil without generating more heat. This uses the oxygen completely and pushes the heat away so that the oil doesn't re-ignite.

Percussion explosives have a singular specific boiling point, and the molecular structure of each molecule is identical, causing the fuel to react together and immediately. This is the type of reaction used in any supercarb process. It causes the dynamic motion action which generates greater pressure with much less fuel and generates much less wasted heat. It has been noticed that these systems ran much cooler, even to the extent that Pogue ran a car with no radiator system for an extended time with no engine damage.

Incendiary fuels burn and generate heat slowly, causing a building to catch fire and burn. The flame front is slower, and doesn't cause the dynamic explosion of a percussion fuel. Incendiary fuels are made up molecules of many different sizes, having a wide range of boiling points and a greater variance in molecular structure. These react more slowly in burning in progression as they reach different boiling points. Only vapour burns. Any liquid must become vapour before it burns. This is the process used in today's cars. It causes more heat to be generated and not as much pressure for dynamic motion. This requires more fuel to achieve the motion produced.

Today's gasoline has a boiling point ranging from 130° to 430° Fahrenheit (or 54° to 221° Celsius). When ignition occurs, the lowest-boiling-temperature fuel burns first and the heat from it is used to boil the next higher boiling-temperature fuels—so that they burn up the chain of higher boiling-points to the point where the piston is pushed down, the exhaust valve opens and the fuel continues burning in the exhaust system.

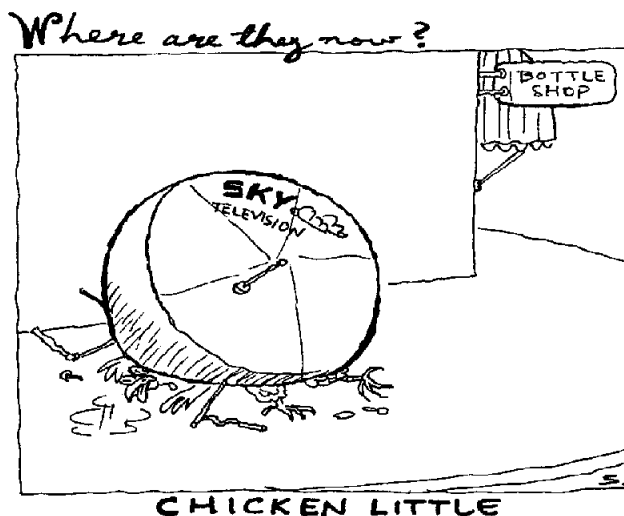
When applying this understanding to any of the many supercarb systems over the years, there were two basic ways that achieved this percussion-type reaction to power the engine more efficiently. Both basically vaporise the fuel. The first and easiest is fractionalisation, which distils the fuel and burns each level of it. Each level consists of similarly-sized molecules. Vapour systems that cir-

culate fuel work on this principle. These usually leave the fuel that boils over 400° Fahrenheit unused in the tank.

Thermal Catalytic Cracking (TCC) is the other and is the more efficient of the two. TCC causes the molecular structure of the entire fuel to be changed by breaking the larger multiple carbon molecules into much smaller, singular carbon molecules. The entire fuel is then made up of similar small molecules. Like natural gas, all the molecules now have comparable and much lower boiling points. When it ignites, it burns completely and instantaneously and the energy is transformed more efficiently with a smaller charge. This cracking action uses all the fuel instead of leaving leftover high-boiling-point fuel that normally goes out to the tailpipe or is burnt in catalytic converters. This is fine for reduced pollution, but the wasted heat isn't converted into propulsion power.

What is basically happening with any successful supercarb system is that the fuel is being converted completely into vaporous natural gas and methanol before getting detonated in the engine. There is a distinct advantage to this over the standard system used in today's natural-gas-powered vehicles. That system pre-stores the natural gas in very-high-pressure tanks that cause very large explosions when ruptured. Also, a natural gas system cannot recover waste heat as much, in that TCC is an endothermic reaction. This reaction can take waste heat energy and change it back to chemical energy; specifically, the molecular weight of the water into hydrogen and alcohol as fuel. A water injection system is used to quench the explosion, and the pressure expansion characteristics of steam help to keep the engine running cooler and even more efficiently.

Some previous attempts to produce high-efficiency carburetors used one or both of these processes, but did not run very long. It was not realised by the builders of these vaporising systems that the metal of the vapour chamber itself was acting as a catalyst. These systems soon lost efficiency because additives in gasoline coat the metal of the vapour chamber and prevent the catalytic action from taking place. Since previous inventors didn't realise what was actually taking place, they were continually mystified by their system's apparent failure after a certain amount of running time. Others have been aware of the intricacies of the system for a good many years, but for various reasons have kept quiet about



what they know.

It is interesting to note that lead was not added to gasoline until the time of the Pogue carburettor in the 1930s. Also, understand that to eliminate ping or knock in an engine, you eliminate the larger high-boiling-point diesel fuels. Ping or knock is caused because, under compression, the larger molecules are forced too close to oxygen, causing spontaneous ignition and burning before the top dead centre and spark-plug-firing timing. The smaller the molecule, the greater the octane rating. Natural gas has a rating of about 120.

Now let me give you the short run of the years of frustration I went through with our Patent Office. The following patent is classed as public domain, because just at the time I was publishing my book and filing my patent, the laws were changed. The Patent Office put me on hold due to some regulation, and by the time I was looked after it was too late. I did know the laws and had done as I was supposed to, but the law was changed and that was that. I appealed twice, and my only option was the Supreme Court—and that cost megabucks. I could not afford to chase any more and did not think they would ever patent it, anyway. I was told they did not want it. So here it is; see what you think.

What follows now is a more specific description of the process, taken straight from my patent application. Included is an explanation of my original innovation of a replaceable catalyst container with increased catalyst surface area. This was filed on 3 November 1989.

ABSTRACT

In the conventional carburettor process in the internal combustion engine, a mixture of air and fine gasoline droplets is produced for combustion. In this invention, the gasoline is catalytically converted to small-molecular, light hydrocarbons, methane and methanol, which are then mixed with air for combustion. The new carburation process improves internal combustion engine efficiency and greatly reduces atmospheric pollution.

DISCLOSURE SPECIFICATIONS

This invention relates to a carburation process for the internal combustion engine.

In the internal combustion engine, a mixture of air and fine gasoline droplets is drawn into the cylinders where it is exploded to provide propulsion power. The gasoline droplets are converted to gasoline vapour by the explosion initiating sparks in the cylinders. This conversion is one source of internal combustion inefficiency. The gaseous products of the explosion and the combustion of the gasoline vapour are major contributors to the pollution of the atmosphere.

I have found a process for vaporising the gasoline droplets before they enter the cylinders of the internal combustion engine; for mixing the gasoline vapour with water vapour; and for converting the gasoline and water vapour mixture over a catalyst into a mixture of low-molecular-weight hydrocarbons, methane and methanol. Mixed with air, this low-molecular-weight mix of hydrocarbons, methane

and methanol is then drawn into the cylinders where it is exploded to provide motive power more efficiently.

The gaseous products of the explosions, and combustion of the low-molecular-weight hydrocarbons, methane and methanol, are minor contributors to the pollution of the atmosphere.

CLAIMS

The embodiments of the invention, for which an exclusive property or privilege is claimed, is defined as follows:

1) The vaporisation of gasoline droplets by waste heat from the exhaust gases of an engine to increase the efficiency with which chemical energy stored in gasoline is converted into propulsion power.

2) The catalytic conversion of a mixture of water and gasoline vapour to small-molecular-weight hydrocarbons, methane and methanol.

3) The combustion in the internal combustion engine of a mixture of air, small-molecular-weight hydrocarbons, methane and methanol, to produce less pollution of the atmospheric environment.

4) A process for generating methane and methanol for use in an internal combustion engine, generated from gasoline and water by passing them over a catalyst heated by exhaust gases.

5) A pre-carburation system consisting of a series of tubings and catalyst bed, heated by exhaust gases to regain this heat energy into further cracking of a liquid hydrocarbon and water into a lighter, more aromatic hydrocarbon and methanol.

For further information, contact:

J. Bruce McBurney

6665 McLeod Road

Niagara Falls

Ontario, Canada L2G 3G3

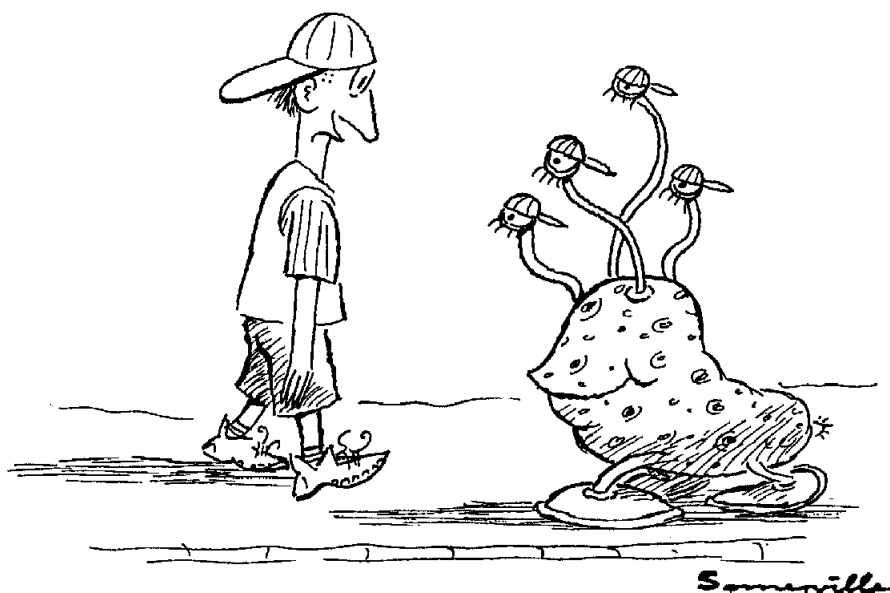
Phone: +1 (905) 358 8541

Fax: +1 (905) 358 9439

Web page: www.inett.com/himac

The Secret Super High Mileage Report, by J. Bruce McBurney, is available for purchase. It is an excellent starting point for those wishing to improve engine performance and emission controls.

To order, send the equivalent of US\$25.00 in local currency to your nearest NEXUS office.



COMET HALE-BOPP

Prophecy and Controversy

The flypast of Comet Hale-Bopp in early 1997 is an event exciting the prophecy-watchers and creating controversy among astronomers.

Is this the return of the legendary Great Comet, and has it brought a 'companion' along for the ride as it rockets through our solar system?

by Tom Kay ©1996

1641 Princess Anne Road
Virginia Beach, VA 23456, USA
Phone/Fax: +1 (757) 721 0667

RETURN OF THE DRAGON

by Tom Kay

For thousands of years prophets have spoken of the coming of an enlightened "New Age" that will be inaugurated by great Earth changes and unusual heavenly activity. One very special event, the arrival of a "Great Comet" or "Star" to our solar system, is said to herald these New Age birth pains, the Second Coming, and a marvellous, peaceful era.

In July 1995, amateur astronomers Alan Hale and Thomas Bopp discovered a new comet, located near the Sagittarius constellation. It was the most distant comet ever reported by amateurs to the International Astronomical Union. Their namesake, Hale-Bopp, will be closest to Earth in the northern Spring (southern Autumn) of 1997. Scientific evidence suggests that this huge and uncommonly bright heavenly object may be the Comet that's been predicted for so long by so many.

In the 1930s and '40s, the famous "Sleeping Prophet" Edgar Cayce, of the United States, prophesied that massive Earth changes will create new maps of the world. Gordon-Michael Scallion's "Future Map" illustrations and prophecies are strikingly similar. But is there a causative event?

In the early 1980s, British intuitive, David Jevons, said: "I believe that the major Earth changes will be initiated by what I will call 'the Fiery Messenger'. There is even now a star of great power proceeding towards our solar body. The star, at this moment, is invisible to the human or even telescopic eye, but it is set on a path which will bring it into conjunction with our planetary system. As it passes by, it will affect the motions of all the planets of our system, and therefore will bring about changes on the surface of the planets themselves. The effect of the passage will be to set in motion the Earth Changes that are prophesied. Various lands will sink; others will rise..."

After his narration, Jevons was asked: "The star that was spoken of—has it passed through this solar system before?"

"Yes."

"Is it Halley's comet?"

"No. It is far bigger than that."

Researcher David Solomon has estimated that the comet returns every 4,000 years: "It was known to ancient peoples as a vast, fiery body that, when it entered the solar system, caused planetary catastrophes. It was known to the Greeks as Typhon, to the Mayans as celestial Quetzalcoatl, to the Sumerians as Nibiru, to the Phoenicians as the Great Phoenix, to the Egyptians as Apep or Seth, and to the ancient Chinese as the Great Red Dragon."

Sixteenth-century English prophet, Mother Shipton, poeticised:

*The gods will send the Dragon back/ to light the sky his tail will crack
upon the Earth and rend the Earth/ and man shall flee, King, Lord and serf.*

Saint Hildegard, a seer who lived in Germany in the 12th century, said: "The Comet, by its tremendous pressure, will force much out of the ocean and flood many countries... The Great Nation across the ocean, inhabited by people of different ancestry, will be devastated by earthquakes, storms and great waves of water, causing much want and plagues. It will be divided and in great part be submerged."

Other heavenly events may add to the mix. The year 1999 is unusual because there will be two solar eclipses and a lunar eclipse. Furthermore, the Leonids meteor storm is due to return in 1999. The storm, from the Comet Temple-Tuttle, is very dense and has been awesome and chaotic in the past.

John wrote in Revelation: "...there fell a great star from heaven, burning as it were a lamp...there was a great earthquake..."

Nostradamus predicted: "After great misery for mankind, an even greater approaches when the Great Cycle of the Centuries is renewed... In the sky will be seen a fire, dragging a tail of sparks."

In May 2000, there will be a 'grand conjunction' of the planets. Six planets will come into almost perfect alignment with the little Earth stuck in the middle.

Some speculate its 'pull', coupled with that from the Comet, will cause a 'pole shift'. Albert Einstein wrote: "Such displacements may take place as the consequence of comparatively slight forces exerted on the crust...which in turn will tend to alter the axis..."

The prophet Isaiah said God "...will shake the heavens, and the Earth shall remove out of her place..." Cayce predicted a "shifting of the poles" in 2000-2001, and the Hopi Indians believe the Earth's poles are held in place by two enormous celestial angels who will soon abandon their posts as a fast-approaching "Blue Star" enters our solar system.

In the 1930s, Abd-Ru-Shin, prophet of the Grail message, stated: "For years, now, knowing ones have been speaking of the coming of this especially significant Star... It can be called the Star of Bethlehem, because it is of exactly the same nature as that was. Its power sucks the waters up high, brings weather catastrophes and still more. Where encircled by its rays, the Earth quakes... Unerringly and unswervingly the Comet pursues its course and will appear on the scene at the right hour, as already ordained thousands of years ago... And then the Earth is purified and refreshed in every respect for the blessing and joy of its inhabitants..."

In 1934, Edgar Cayce said: "...as has been given of old, the sun will be darkened and the Earth shall be broken up in divers places, and then shall be proclaimed...that *His* Star has appeared..."

It is recorded in Matthew 24 that "...the sun will be darkened, and the moon will not give its light; the stars will fall from the sky, and the heavenly bodies will be shaken. And then shall appear the Sign of the Son of man in the heaven." It is not unreasonable to think that, if Jesus is about to return, a star will appear as one did at his birth.

In 1934, Edgar Cayce said: "...as has been given of old, the Sun will be darkened and the Earth shall be broken up in divers places, and then shall be proclaimed...that *His* Star has appeared..."

A host of angels also appeared at Jesus' birth, and the Bible predicts Jesus will return with "His Angels".

The Hopi name their "Blue Star" "Kachina", and believe it is controlled by spirit entities, Kachinas, who are capable of manifesting on Earth.

Gordon-Michael Scallion wrote in the March 1993 issue of *Earth Changes Report*: "Now, imagine a star, a blue star, that moves through the heavens at regular cycles, such as a comet, except this celestial object is pure spiritual energy, a star made manifest by spiritual forces, a star composed of light-beings; these angels—souls of the highest level—who, by their own spiritual evolution, joined together as a singular host to serve."

Now that Hale-Bopp is forthcoming, Gordon-Michael Scallion feels certain this comet is the "Blue Star" that he has spoken of—one that he has referred to as a "second sun" in our solar system.

In 1976, Aron Abrahamsen, an intuitive who lives in the United States, also predicted the coming of a new sun: "And one will discover by the year 1998 the appearance of a new sun coming into viewpoint of all people on Earth...not as strong as the present Sun, but it will add a great amount of light to the world, indicating that the world is coming into a new consciousness."

It is said that no important future event occurs without humanity first being told the signs and omens. When prophecies from many persons, from different countries, times and cultures are comparable, then it is unlikely the prophets have been reading each other's mail. The time may be drawing near when we will have to consider the matter seriously.

As Edgar Cayce said almost sixty years ago: "As has been indicated, we will begin to understand fully in 1998."

About the Author:

Tom Kay is a researcher and author, and a student of the Edgar Cayce material for 31 years. He resides in Virginia Beach, Virginia, USA.

His new book, *When The Comet Runs: The Prophecies for the Millennium* (Hampton Roads Publishing Co., Charlottesville, Virginia), is now available and will be reviewed in the April-May '97 issue of NEXUS.

(Source: Gordon-Michael Scallion's *Earth Changes Report*, issue no. 62, November 1996)



HALE-BOPP: THE 'COMPANION' CONTROVERSY

Comet Hale-Bopp is certainly surrounded by controversy. As if being the biggest comet in recent memory weren't enough, Hale-Bopp is thought by some to be accompanied by another object even more portentous. "The companion", as it's being called, is simply a figment of computer glitches and wild imagination, according to all the mainstream astronomers who've so far spoken 'on the record'.

Still, rumours abound that other experts, so far unnamed, do affirm the companion's existence. If it's there at all, it might be a second piece of the comet itself—or some other, as yet unidentified, natural object. But some say it's weirder than that: perhaps sentient, perhaps alien, perhaps a spacecraft of planetary size.

Art Bell Radio Show

Professor Dr Courtney Brown of Emory University, founder of the Farsight Institute and author of the sensational book *Cosmic Voyage*, and famed author and professed abductee, Whitley Strieber, went on Art Bell's syndicated "Coast to Coast" radio show in the early morning hours of Friday 29 November 1996 to announce that a "top astronomer" associated with a "top-10 university" now has definite proof that a huge object, thought to be a "ship" of extraterrestrial origin, is trailing Comet Hale-Bopp.

Chuck Shramek

Over two weeks before, on 10 November, Houston-based amateur astronomer Chuck Shramek imaged something while viewing Hale-Bopp with his 10" telescope, then went on the Art Bell show to describe what appeared to be "a large Saturn-like object" close to Hale-Bopp. This set off a firestorm of controversy on the Internet, in which Shramek was generally denounced. Crushed by the negative publicity, he soon left Texas and went into seclusion in another state, where he reportedly still remains.

Courtney Brown

Having heard of Shramek's image, Courtney Brown assigned three Farsight Institute remote viewers to examine the situation out at Hale-Bopp. On the basis of their findings, Brown asserted on Bell's show that there was indeed a huge, second object that was apparently under intelligent control. The ensuing controversy, which dismayed Shramek, did nothing to dampen Brown's insistence that the mysterious second object does exist.

Appearing again on the Art Bell program the morning of 29 November, Brown went even further. He said that after the first round of viewing sessions nearly two weeks before, he had quietly gone about seeking hard confirmation of his findings among professional astronomers. Now, he said, he has received pho-

tographs from, and talked "for many hours" with, an internationally known astronomer who works at a "top-10 university", who positively confirms that there is an extraordinary second object that appears to be a "ship" under intelligent control.

Dr Brown refused to give the name of the astronomer or the university, stating that this man is currently deliberating his next steps in consultation with his family and professional colleagues. "This is a free-will universe, and this man must make his own decision," Brown stated on the air. Art Bell said that he had in his possession copies of the photographs, which are described as of such high quality that, if they were posted on the Internet, their origin would be easy to determine. Bell said he does not know the name of the astronomer.

Dr Brown also stated that a radio astronomer, a colleague of the

other astronomer, had discovered evidently intelligent radio signals coming from the Hale-Bopp object. Brown said it should soon be possible to announce the exact frequency on which the signals could be heard, so that others can verify them.

Brown stated his belief that the astronomer would call a press conference within one week to announce his findings, but he noted there were bound to be very serious repercussions to such a step, and that the astronomer might decide against it, at least for now.

Whitley Strieber

Whitley Strieber appeared later on the same program to assert his conviction that the photos, along with the astronomer's testimony, did indeed represent evidence of a huge, intelligently guided object travelling with Hale-Bopp. Strieber spent most of his two hours on the program talking about his own experiences of contact with "the visitors" and how humans might respond and adjust to the imminent certainty of extraterrestrial life visiting the Earth.



COMET HALE-BOPP AND 'COMPANION'?

This image (HBST961110-19) was allegedly taken by the Hubble Space Telescope on 10 November 1996. Like the controversial image taken by Houston-based amateur astronomer Chuck Shramek, this photograph shows an unusually large, bright object in the vicinity of Comet Hale-Bopp.

Does this image show a 'companion' travelling in the Comet's tail? Remote viewer Courtney Brown and author Whitley Strieber, among others, say yes. But mainstream astronomers, so far without exception, say it's just a distant star distorted by the imaging process itself. The controversy continues...

Confirmation of Comet 'Companion'?

If these claims are true, it can't be long before anyone with a reasonably good telescope can confirm that the second object is there. Thus, if it *is* there, some kind of announcement seems a certainty before long.

On the other hand, if it is *not* there, Courtney Brown and Whitley Strieber, among others, will certainly be denounced. Both they and Art Bell acknowledged that talking about this on the air put them all at risk of grave ridicule, or worse.

(Sources: various Internet discussion groups, plus CNI News, vol. 2, no. 18, Part 1, 1 December 1996; e-mail: CNINews1@aol.com; web: <http://www.iscni.com/>)

Dr Lee Shargel

On 2 December 1996, a scientist familiar with official astronomical studies finally stepped forward to speak about this bizarre object. Dr Lee Shargel, a graduate of Northeastern University who holds degrees in industrial engineering and robotics and a doctorate in materials science, has worked for NASA as an engineer/scientist with Top Secret clearance on the TDRS, Hubble telescope and SRBOC projects. He has come forward to announce that this is no anomaly of any telescope or misguided software, much less a ball of swamp gas, a flock of geese or a trick on the eye. In fact, Dr Shargel possesses his own set of 17 photographs of this object accompanying Hale-Bopp.

Shargel has gone one step further than merely announcing the object's existence: he has asserted that it is no less than a space craft, a "probe"! He has also said that the message coming from the Hale-Bopp companion is a greeting as well as a warning. The warning has to do with a neutron star explosion, the radiation from which is heading toward the Earth.

Ex-Vatican Priest

Art Bell received the following fax from a priest who used to work at the Vatican, and read it over the air the next morning.

From: Name@Withheld
To: artbell@aol.com
Date: 11 December 1996

Dear Mr Bell,

I have listened to your program off and on for around two years now, whenever I get 'down-time'. I have some disturbing information and I feel that your program would be the perfect vehicle with which to distribute what I have.

I have been under the employ of the Vatican for over five years. I have done what could best be described as counter-intelligence work for the Church. I am a man of God, and please believe me when I tell you that the information I have is genuine and very serious.

Without going into too much detail about my former employers, I will briefly tell you that I have had a top-level security clearance in the Vatican for quite some time. Most of the work I have done regrettably falls into the realm of 'black ops', and I will not go into detail about that now.

Around six months ago I was working at a data terminal in a highly restricted area, following a case that I had just completed, when I stumbled onto something that nearly made my heart stop. Please pay attention here; this is where it gets strange.

I uncovered a heavily encrypted sub-system that was surprisingly well-hidden. I found that it was only accessible through the terminal I was at, and one other terminal. (I must point out that the area I was in was not an area that I routinely used.) After two minutes of trying to get into the system, the whole lab shut itself down and I was booted off the terminal. Not wanting to raise any eyebrows, I decided to leave and come back later that night. The strange thing was, when I came back there were ARMED guards standing sentry outside of the lab. I must say that it is not unusual to see guards roaming the Vatican, but that it is very unusual for them to stand sentry at a lab, much less while armed.

Over the next month, I managed to slip in unnoticed only once. And after I had found what I came for, I understood the security.

It took me a good deal of time to break into the system, and

when I did, I wished I hadn't. When I entered the system, I came across a file titled "WORMWOOD?" (yes, with a question mark). Thinking it to be a text file, I brought up the file with the intent of copying so I could read it later. What happened next was truly remarkable. The file sort of 'deteriorated' into a series of command lines that lasted approximately two minutes. Once it was done running, there it was.

I had found a direct link-up to the Hubble space telescope. Not only that, but it was pointed directly at the Comet Hale-Bopp. The program was running some kind of analysis, taking directional notes, projecting path of travel, etc. After realizing what I had discovered, I started searching and came across an e-mail data trail that led directly to the office of the Pope himself. What was discussed, I cannot know.

Over the next two weeks, I began to uncover evidence that the Vatican is very aware of the existence of the companion, and is VERY worried about it. I began to copy files and pictures that were present at the terminal when I found a report from the United Nations to the Vatican, as well as a report from NASA, regarding their concerns.

It is very obvious to me that a great many people and entities know of the companion and are doing their best to keep quiet. VERY quiet. As the next part of my story illustrates.

I had found another file that I wanted to look at, but it was independently encrypted. At the time that I discovered it, I had already been online at the terminal for some time, so I decided to copy the file encrypted and decode it at my leisure. As I was leaving the lab, I was approached by two of the Pope's top aides and was asked to meet them later in the evening. I didn't feel comfortable about the situation, so I agreed and told them that I needed to shower and would join them later. I haven't been back to the Vatican since.

I found out about a week later through some old friends and contacts that a contract had been placed on my life. Two days later, my mother and father were killed in a car crash in France. Three days after that, my brother and sister were killed when their single-engine plane went down on the east coast of the US. I've been on the run for a very long time now, and am still trying to decode the file that I have in my possession. Approximately ten copies have been distributed to friends in the field, in the event that I should disappear. I do not fear for my life, as I am very adept at not being found; however, I believe that the world needs to know of the information that I have.

I would be willing to share all that I have with you, Mr Bell. But you need to understand that your life could be in danger if you were to go public with what I give you. I apologise for being so vague, but I feel it necessary at this point in time.

If you would like the information, say so over the air when you get this letter. If I am not listening, someone will get the information to me, as there is no safe way for you to contact me at this point in time. I await your response.

(Priest)

Art Bell commented after reading the fax: "Now, when I received this I sat and thought about it for some time. So, I contacted someone who has been very high in Rome—whom I am not going to mention on the air; someone who would definitely know about the validity of what I received. That person's response to me was: 'This is real. Don't touch it with a ten-foot pole. Don't ever send something like this over an open fax-line again, and I don't want to talk about it anymore.'"

(Source: various Internet web sites and discussion groups)

— CoEVOLUTION —

An Interplanetary Adventure

In 1989, Alec Newald's lifepath took an unexpected turn when he was abducted by a group of benevolent aliens for ten days and transported to their homeworld.

His amazing experiences have great significance for the future of humanity and our galactic cousins.

by Alec Newald ©1996-97

Extracted from Chapters 4, 5, 6
of his book

— *CoEvolution* —

Published by NEXUS Publications
Mapleton, Qld, Australia, 1997

Alec Newald first contacted us in 1995 about publishing his book, *CoEvolution*, describing his incredible ten-day round trip to his abductors' homeworld, *Haven*, and the Earth-based controversy it created. We found Alec's story particularly fascinating; and, having met him and had him speak at the 1996 NEXUS Conference, we have no reason to doubt his integrity. Here we publish some intriguing excerpts from his soon-to-be-released book. Ed.

THE EARTH SEEN IN A DIFFERENT LIGHT

I must have gone to sleep almost immediately.

When I opened my eyes again, Zeena was sitting opposite my cubicle.

"Verva," she said. "Did you sleep well?"

"Like a rock," I replied.

"Curious expression," was her reply.

"How long has it been?" I added, enquiring as to the length of my sleep.

"One half of an Earth day—twelve hours," she answered.

"What's 'verva'?" I asked.

"Oh, 'good spirit, fresh energy to you'. It is a greeting we use a lot, like your 'hello'," she explained.

"What's on the schedule?" I enquired.

"Some more liquid replacement for you," was her reply. "Come on. We have only two more of your Earth days and there is much to learn if you desire, and quite a few questions I have for you, too, before I return home."

Zeena appeared most anxious, but how could she be more inquisitive than I? Even though, I was still reeling from awakening to find myself 'dream-bound' and not back on Earth as I had expected.

"Her home! Now there's something I'd like to know about," I thought to myself but realised almost immediately that Zeena would read it.

"About the size of the planet Mars in your system," she replied, right on cue. "But it is not in the best of health, for our sun is slowly dying and we are being roasted with radiation. We are also losing our atmosphere. We can patch that up to a degree, but not for ever."

"Doesn't sound good. What are you guys doing about it?" I asked.

"Well, we have been looking for a new home for many of your years. The best bet is still Earth, but we cannot take your gravity, among other things. That has always been the major factor but it is also not of the right conformation for us yet. It used to be, but we are not quite like we used to be."

Zeena hesitated, as if pondering whether to go on with this topic. She chose not to continue.

"There is every chance that the Earth is about to change in the not-too-distant future," was her revised answer.

"Change its conformation?" I enquired, startled.

"It shall mutate to a different density level, as you would understand it. It's no big deal. It's happening all over, all the time," she replied.

I think she might now have been trying to downplay it all after she noted how panicked I must have appeared.

"It'll what?" I queried, looking at her in amazement.

"Well, that is another of those long stories I promised to tell you about. It is best we get comfortable first and you get some fluid intake."

ANCIENT HISTORY LESSONS FROM THE FUTURE

"Now, how shall I start?" Zeena asked. "Perhaps with the Elders."

"Elders?" I chipped in.

"Like the Guardian you have met. They are each many hundreds of Earth years old and have a very ancient lineage. Their ancestors, who are my ancestors, are also very distant ancestors of yours; at least in part they are. Now do not interrupt!"

Zeena headed me off at the pass, even before I could get the thought out of my head.

"This is going to be difficult enough to explain without interruption. I will make room for questions a little later," she added. "These distant common ancestors of ours came to Earth many times, but more important to you was the visit of two million years ago, your time-scale. They were not the first [aliens] to visit. In fact, they and others have lived in and explored what you call your solar system for *hundreds of millions of years*."

"These travellers tidied up some earlier attempts to manufacture a race of humanoids on Earth, the end result being *Homo sapiens*. I will not go so far as to say these ancient ancestors of mine were solely responsible for your race, for that was indeed a joint effort of many ETs, all of which at some time have laid claim to manufacturing your race. This is not a deliberate lie on their behalf—just a slight exaggeration of the facts. Do not interrupt yet, please. I shall explain all in due course."

"In many ways you have manufactured or at least fine-tuned your own race, and it continues even at this very moment. This is mistakenly called 'evolution'. 'Natural progression of the species' is a fine turn of phrase uttered by one of your kind's more enquiring minds some years ago. It was thought by many to explain the path of evolution, and there is an end to it. But this thinking leaves more questions unanswered than answered, for how and when did a butterfly obtain its wings? I shall not pursue this subject for there are more important things to discuss, but no doubt you see my point. Perhaps there will be a time at a later date."

"I will, however, tell you more of your own race's personal history, for it is important that you should know your own past, and that evolution as you understand it is a myth. The changes are never slow but they are always planned. Later I shall show you that nothing in this Universe—past, present or future in your time-scale—is left to chance. Forgive me, for I diverge from our chosen path."

"Some of my ancient Elders stayed with your developing race. Others moved on. From time to time there were conflicts with other ET races as to what was best for one or the other, just as there are conflicts on your planet now, among your own kind. You must understand that Earth is a very special place. It is very beautiful and there are many who have desired to own it. I would not go so far as to say this is no longer the case, but you should always have your wits about you! Even we, although we do not wish to own it, would like to live there. But we cannot—indeed, we must not—interfere with the processes that are happening on your planet right now. That is not to say there are no other ET races that will not interfere, and that is why you must have your wits about you."

"Some of those processes which are occurring, or are about to

occur, are the direct result of that seeding by our ancient Elders. Even the pyramids are ancient legacies left behind by our Elders to help you awaken when the time is right. They are very important to you, and it is from this front that progress of a most unexpected kind will manifest itself to your race in the not-too-distant future."

"All knowledge will be made available to your race in good time and in accordance with the laws of evolution. There has yet to be a force artificially manufactured in any universe that my people know of that is more powerful or wiser than this natural law. Trust me when I say this, for my race knows well the cost of interfering with the laws of evolution. We would warn your own people, if only those in control would listen. Alas, that approach appears to have fallen on deaf ears, so we shall now attempt to pass on the message in a different way."

"There was indeed a time upon your planet, not so long ago in the context of this history lesson, when a 'force' came down upon it and did in fact claim it [the Earth] and all upon it as its own. That force—and I know you will find this difficult to accept, Alec [Zeena used my name for the first time]—that force is still among you. It is indeed now a part of all of you, so I suppose you could say it still does own the planet in some way."

"After this force won your planet, it realised it would have a continuous fight on its hands, for you were not as you are now. You were well on your way to enlightenment, with a very strong

spiritual base. You were actually almost as strong as this force itself. It had to trick you in order to master you, and while you were down it altered your make-up, your very structure; your DNA, in fact. It crippled you and stunted you, and set you back many thousands of years. It made you into what you are today, which is only a portion of the greatness you can be, for you have not yet even fully recovered. And if that force has its way, you never will!

"That force is known to most as the 'force of darkness', for it is indeed the enemy of enlightenment. You will please understand that this is a very simplistic description of a most complex entity. Even *we* do not understand it in its entirety. It is in the air that you breathe and everywhere about you. It has aligned itself to the planet and you. It beats to the pulse of your very planet, for you and the Earth are one and the same. This is one thing your peoples do not seem to comprehend, but you can use this union of the whole to do wondrous things, just as we have."

"Unfortunately, most of your kind fight the natural forces of your wondrous planet. By this I mean you bend them, even break them, to fit your needs. It need not be this way. If your people will just open their minds and hearts to your planet, as many of your ancient races have done in the past, it will show you the way. All is not lost; it just needs to be recalled. Until this is done, we have much need for concern. It is not just Earth planet you are violating as you bend and break Nature in your whims of fancy, for all of all is connected. This is really very basic knowledge. It has been ignored because it suits those who would play with power to ignore it. We and others are indeed benevolent to your race, as we all are connected, but soon something must be done before your play does meaningful harm to us all!"

"We find that there is a need to teach you more about the dark

"Some of my ancient Elders stayed with your developing race. Others moved on. From time to time there were conflicts with other ET races as to what was best for one or the other, just as there are conflicts on your planet now, among your own kind."

forces that permeate you. You would do well by your people if you take great heed of this lesson and pass on your findings to those of your kind who would listen. The dark force vibrates at a level that is compatible with your brainwave patterns. This much you should already know, but others of your kind have kept it from you.

"In spite of this, some, like you, Alec, are building a resistance to this alien intruder. This is one of the reasons why you find yourself thinking differently from the majority around you. It has enabled you to see more clearly the error of your ways and what must be done. You shall continue along this path a while longer yet, and even doubt your own kind from time to time. Be patient. This is all I can suggest, as inadequate as it may sound. We have been working on these things with you for many a year now. All of your people will find their way with the passing of time.

"As you find with all afflictions, they are easier to contend with if you understand them. I am doing my best to explain all this to you in terms you will understand. Please interject from here on if you do not understand some point, for we do consider the following to be most important.

"Some on your planet have aligned themselves with this 'force'. Note I have said 'aligned' and not 'allied', for there is a difference. Do you understand this? [I nodded.] They have gained much power from the force, and some are even foolish enough to think they have it under control. This is naïve, of course, as the force or alien entity is feeding off these people or, rather, feeding off the conflicts these people create in their bid for wealth and power. As long as this suits the dark force, it shall continue; for the 'fear' emotion is what it lives off.

"The easiest way to defeat this force is to remove fear from your societies. This will, in effect, starve it out. It will then go elsewhere, looking for easier prey. You see, your human race is one of the very few that lives with this most unusual thing called 'emotion', which is why the force came here in the first place. We, too, had emotions once, so I am told, and some are saying we can now experience them again, thanks to the new breeding program we are experimenting with. Forgive me, I digress again.

"You will find some of your kind are trying very hard to harness this most dangerous force. Unfortunately, they do not fully understand that it is an entity in its own right and that this is a very dangerous mistake to be making. They think they are playing a game and that they are winning this game. We have tried to warn your people more than once in the past, but no heed has been taken. As your people say, 'it is *your* life'.

"The worry we have is that your planet breathes with you, in harmony even with your thoughts. To attack the people by using the force in this way is to attack the planet. Be it on your own heads if you invoke the wrath of your planet. There would be little or nothing we could do for your people should that happen. Perhaps you can help us with this message. We have an idea to put to you, but that shall keep until another time, for there is still

much to be related on other subjects.

"Your societies, right from the very beginning, have engineered fear into your lives. Most of it is an artificial fear of society itself; in other words, you fear your very own laws. Your high priests from long ago shouted down to the common masses, describing what wraths would be set upon them if they did so much as *dare* to cross the all-mighty gods of their time. Forgive me if I make what you call a 'joke' of this, for these all-mighty gods they describe were people like me or the Guardian, whom you have met. Do *you* fear me, Alec, from where you stand?" Zeena asked.

"I feel no fear," was my answer.

"So you see how your masses were manipulated in our absence by those who would gain from it?" she asked again.

"I can see how a lie could fool the uneducated," was my reply.

"And you think your people are better educated on this subject today?" she asked once more.

"If you ask what we know of God, then perhaps not," I replied.

"Exactly my point," Zeena stated.

"And so the intimidation goes on, only you have a hundredfold the number of laws today. These are not the laws of Nature, however; just of your manipulators who in turn have been manipulated by the force.

"The laws of Nature you break every day as you drive to work in your disgusting machines. It is even more curious to us that you all know these things but you continue to allow them just the same. Why is there not a law against it in your society? Does pollution

not kill? Are your people so blind they could not see what would happen with the proliferation of these strange machines? You need not answer, for we know the reasons. This is just, as you might say, an example.

"You will perhaps tolerate our confusion, though, when we fail to understand what we have observed in your so-called Western societies in which thousands of your money are spent to save but one life, while millions of your kind die in other far areas for the sake of small amounts of this money. Are you not all one people of the same flesh and blood? For this question, we ourselves do not have such an answer. Could you perhaps help us in the reasoning of this?" Zeena asked, looking at me in a most perplexed way.

"My own people sometimes embarrass and confuse me. No, I have no answer to that question," I replied.

"Very well. Why do your people take such time and interest in a single tree, should it be cut down in your cities, while they allow large areas of many-years-old trees to be removed from the forests which are out of their sight? Please take this question home with you to put to others, for we also find this most confusing."

I have since duly completed that request.

Zeena did have some encouraging news. She suggested that the force would soon feel the weight of an invasion from above, and there would be battles fought at sea and underwater, and also in the skies high above. Most would know little about these events, except those caught within the by-product of the battles. By this



"Zeena"

she meant that the Earth would experience storms of gathering intensity, and where these storms would once have been confined to the vortex points of our globe (the western Atlantic-Bermuda area and the western Pacific, south-east of Japan) they would now appear randomly all over our planet. She did not say who or what might be behind these battles or be the cause of them. However, when the way is clear and some portion of the fear has been removed, *we may indeed see other races of the Cosmos openly visiting and interacting with us here on Earth!*

"In the due course of time you will awaken from this 'sleep' that the force has had you in, with a little help from your friends," she added. "Being a sailor," she said, suggesting I watched the weather, "you will know what to look for. Trust in your instincts."

This is all she was prepared to say on the subject.

"Your race is nearly strong enough to fight back and win its rightful place in this galaxy of ours. We will help you and your planet to do great things again, for we love all life. Even the dark force is a form of life and we must and do respect it. Do you understand, Alec? This is very important."

Zeena at last let me have a say.

"Yes, I do. But how do we fight this force if we cannot see it or know where it is?" I asked.

"It is within your very soul. You fight it with knowledge and understanding. But only each and every one of your kind can help yourselves. Nevertheless, to know that it exists is half the battle, and you can pass on this knowledge to all who should care

to listen. Your race is about to change, become more aware—well, most of you are. It is an unfortunate fact that the ones upon your planet who truly understand what a great hold this force known to you as fear has over your people, are the very ones who are using it against you—and always have. They only understand its power, not its reason for being. That is why we have chosen this time to explain to you, and others of your kind, what *we* are here for. We have come to help enlighten you and, in so doing, perhaps free you from this force. We also understand that there will be some among you who will resent this knowledge being made available and will do their best to belittle and downplay its importance to your race.

"We may also need things from you and your planet. Call it a trade if you like, but I would prefer to use the word 'coevolution'. We both can grow. We both need to change. You will become more like us, while we need to become more like you. We can truly become great friends once you learn to break free. We have been waiting a long time for this to happen, and you, Alec, are part of this very special event that will happen, as are many others. You will find them and they will find you. Just let it be known that you are a child of the light, whenever you feel the time is right. You will be amazed at what will happen from then on."

As Zeena finished this part of the lesson, I really did not know what to say. How could I reply to what she'd just said? Her narration had brought up more questions than answers, and quite

frankly I did not know where to begin. Even though most of what she'd just said was totally amazing, it was as if I had always known it was so! For that reason you may think my next question out of place.

"The thing that worries me the most," I replied, "was your earlier comment before this lesson began about the Earth 'mutating' into something. Where will that leave us, the people?"

"You have no fears there. It will be you, the people, who help the Earth to transform. You will already have passed over to the next level of density, or be in the act of doing so, which in actual fact is evolution—true evolution, as it just so happens; not the form of change that you may have associated with that word in the past. I am sorry, here, because there has not yet been time to

ground you in that knowledge. The Earth, too, will evolve along these same lines, and that is what I meant by 'mutate'. I am sorry for the use of that word if it has caused you concern," Zeena quickly replied.

"I have more questions," I said, looking at Zeena and hoping I could continue to ask them. Her indication was that I could.

"What happened to those early ancestors—the ones who stayed on Earth, the ones who helped us in the past?"

"Some of them eventually interbred with your kind, although there was resistance to this initially. The offspring of these unions became our common ancestors. All who were pure of our blood eventually died of an unknown illness or left the planet. Their lifespan should have been many hundreds, perhaps even thousands of your years. Some say they simply died of premature ageing. There are many possible reasons why this may have occurred, but it is not necessary for us to discuss that now. The few who escaped this fate and left Earth are now lost to us; where they may have gone, my people do not know, for that was indeed a long time ago. But while we are on the subject of interbreeding, there are a few questions I would ask of you, if I may," Zeena requested.

I nodded my approval, knowing I would get more chances to ask the hundred-and-one questions I was waiting to ask. Her first question took me a little by surprise.

"Have you bred on your home planet?"

"That's an interesting question," was my startled reply. "By 'breed', I suppose you mean have I any children of my own?"

I couldn't believe she didn't already know the answer to this question. Perhaps she was just being polite.

"Yes," she said.

"Well, I have a son who is fourteen years old and is fit and healthy. He doesn't appear to have too many problems, except that he could be without a proper father from now on."

"What do you mean by that?" she asked.

"I was in the process of leaving my family unit permanently when you guys zapped me up here!" I replied. "Don't ask why. It's very complicated, and I'm not sure I know the answer anyway."

"This breeding process, in the form you *Homo sapiens* use, I



"Elder"

have studied as much as I can from our records, but there is still much I wish to know. I have been selected for a modified reproductive process when I return to my home planet. We as a people are running out of time to develop offspring which could survive on any other planet apart from our own without life-support systems. By this I mean we have not yet found another world that is compatible with our specific and rather unique needs. I may be able to elaborate on this point a little later. For now, it is enough to say we have few options, and may have to adjust to new environments such as planet Earth—which we still like to call our second home, even though we are far removed from being able to live there full time," Zeena finished, sounding rather distressed.

"Our planet is rather full already," I commented, not really wishing to add to her burden. In spite of what I had already witnessed and been party to, I was in no way prepared for her reply to my statement.

"Oh, we have already had communication with Earth governors on that subject; since the 1950s, in fact. They know of our desire and need. We have even made a trade, as you might call it. I cannot elaborate on it at this time. But not everyone has lived up to their agreements since then."

"Why does nobody know of this on Earth?" I asked, my eyes wide open.

"Your various governors, in their wisdom, decided that the Earth's general population was not then ready for the message and knowledge we had planned to give your people. If you think back to the subjects we have recently discussed, it is hardly surprising, is it? They feel you are still not ready, and we will not tell your people a half-truth to suit others. So we have this situation—what do you say?—a stalemate," Zeena concluded.

"What did the governors say when you said you would like to return to Earth at some time in the future?" I asked.

"All they wanted were the 'lollies'," she commented, without expanding on that subject.

"There are not that many of us," Zeena continued. Fifteen million is but a small total, is it not, among your billions? And our technology trade-off would make life so much easier for your population. If I dare be so brave as to say history could repeat itself, you may find we interbreed to become one race again, as happened so long ago in your past histories.

"At this point in time there are still some important things that we must physically do here on Earth: some repair work, as it were; a legacy from the past which I am not permitted to discuss at this time. We must correct that which is in a state of disrepair. Just by way of coincidence, that work is now almost completed. This is no small thing, for repairs have been going on for many of your years. Time is now short, for next will come the changes—your awakening."

She answered my question before I could ask it. There was not much I could do but sit in silent amazement.

"You must realise," she continued, as I couldn't think of any worthwhile thing to say, "that we are quite a primitive race compared to other extraterrestrials that may communicate with Earth people from time to time. That is one of the reasons we are so

attracted to Earth and to you as a race. We feel a real kindred or bonding for your people. We also think Earth is a most beautiful place."

"Where would you like to live on Earth if you had a choice?" I asked.

"We have an area that we call our own."

Zeena explained to me that they were already using an underwater base in the general area of this land that had been set aside for them, although she would go no further in describing where that might be. She was then called away, promising to return as soon as possible to continue our conversation.

SURVIVAL STRATEGIES

Upon her return from duty, Zeena was keen to continue her explanation of what they were doing and were about to do on the new breeding program, and why it had become such a priority to her people. In order for me to understand, or try to understand

fully, another lesson was apparently necessary, so she suggested once again that I make myself comfortable as it was likely to take some time.

"For you to understand the problems that we have, it is best that I tell you a little more about the world you live in. Some of this will be a little hard to understand, but some other aspects will ring a bell when you start to look at them in a different light," said Zeena, who was sitting opposite my sleeping cubicle.

I had just finished another small nap to make up for my forty-hour marathon without sleep.

Zeena continued. "You will remember some time ago I promised to tell you about the other side of yourself. This concerns the cycle of the atom, the part that is still little understood by your people, or, should I say, not yet fully understood by them. When this *is* understood, a whole new dimension, or dimensions, will open up for you; for in this instant of time between the pulses of atoms lies a world within worlds. They are in fact parallel dimensions to your own—at least to the one where most of you live your

'now'. These dimensions are so close to your real 'now' that you can slip in and out of them without even knowing you have done so! There are sometimes little clues that tell you what has just happened. This dimension-slipping has been going on since you first walked the Earth, only now it is becoming more common to your people. It can happen almost every day to some, but they are basically unaware of it. This is happening because you are awakening to your true selves.

"You are close to a major dimension-leap, the like of which you have never before experienced; a leap that will bring you closer to my people. This is what we have all been waiting for! How many times have you searched for something in a room and could not find it? You go back some time later and there it is, right in front of your nose; there is no way you could have missed it when you searched. You see, you are not always where you think you are. The trick is to be fully conscious when you make these mini-

"Oh, we have already had communication with Earth governors on that subject; since the 1950s, in fact. They know of our desire and need. We have even made a trade, as you might call it. I cannot elaborate on it at this time. But not everyone has lived up to their agreements since then."

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Animal Mutilations **—The Unsolved Mystery—**

According to leading investigator Linda Moulton Howe, the strange phenomenon of animal mutilations is no closer to being understood three decades after the first cases were reported. The mystery deepens as the deaths continue unabated worldwide.

An interview with
Linda Moulton Howe

Extracted from
CONTACT FORUM
January/February 1996
(Volume 4, Number 1)

Linda Moulton Howe is an award-winning film producer and a leader in the field of ufology. She has received local, national and international awards, including regional Emmies and a national Emmy nomination for her documentaries, including her film, *A Strange Harvest*, which explored the worldwide animal mutilation mystery which has haunted the US and other countries since the late 1960s and continues to this date. She is also the author of many books and films in the ufology field, including *An Alien Harvest*, *A Strange Harvest* and *Glimpses of Other Realities, Vol. 1*. In 1992, Linda was voted the international MUFON award, honouring her contributions to advancing the understanding of complex alien-life-form phenomena.

Today, Linda continues to write, produce and speak at national and international conferences and symposiums. She also produces and reports for television and radio, including news for the nationally syndicated radio program, *Dreamland*.

Contact Forum (CF): I know you are an award-winning film producer. Please tell *Contact Forum* readers how you went from producing films to getting involved in cattle mutilations and the UFO phenomenon.

Linda Moulton Howe (LMH): I graduated from Stanford University in 1968, with a Masters degree in communication, where I made documentary films. I went right from Stanford into the documentary unit at MGM in Los Angeles, working on science projects. When I was at Stanford, all my work and my Master's degree film were in medicine and science.

My career, right from school, was focused on science. When my husband was at Harvard working on a degree, I produced all of the medical programming for Timothy Johnson, who is now the Medical Editor for the ABC network and often substitutes for *Nightline's* Ted Koppel. When my husband and I moved to Denver, Colorado, with his company, I took the position of Director of Special Projects at the CBS affiliate in Denver. There I was in charge of doing documentaries, live shows and news, all in the area of science, medicine and the environment. I held that position from 1976 to 1983.

It was in 1979, while Director of Special Projects at Channel 7 (CBS), that news was emerging again about strange and unusual animal deaths, referred to as "animal mutilations". I decided that since so many were happening in Colorado and surrounding states, I wanted to find out what was really happening.

When I began the research in September of 1979, I honestly thought that I was in an environmental contamination story. I personally was shocked to talk with sheriffs, ranchers and fellow journalists who had been covering the story and hear them tell me—off the record—about their encounters with football-field-sized orange-glowing lights in pastures where they found mutilated animals, or brilliant beams of light coming down from something in the sky, which they could not identify, in pastures where they found these mutilated animals.

Two deputy sheriffs out in Elizabeth, Colorado, where they had had dozens and dozens—literally, almost 200—mutilations over a two-year period, had been patrolling out on some country roads in an area where there had been a lot of mutilations. One of these deputies, Bill Waugh—whom I feature in my documentary film, *A Strange Harvest*, and the book I did 10 years later, *An Alien Harvest*—told me about the night he and the other deputy saw this orange-glowing light coming straight at their police car. They were so convinced that this light was on a head-on collision course with their front window that he hit the brakes. They both 'hit' the doors the way officers are trained to do, and rolled

out onto the ground onto their backs. He said he could hardly believe his own eyes as the orange-glowing light came within inches of the window of their car, then veered at a 90-degree angle and went off.

He said as long as those orange balls of light were around, they had mutilations in Elizabeth, Colorado. When people stopped reporting these glowing balls of light, the mutilations stopped. The link between light and the mutilations was something that I heard everywhere I went.

The next step that people kept linking the animal mutilations to were these strange, silent, dark helicopters which would show up above pastures either before or after mutilations occurred. Law enforcement officers, ranchers and journalists were all curious about these dark, black, silent helicopters that were being reported all the way back to the late 1960s and early 1970s. The modern age of animal mutilations began in the 1960s.

The third link to this came when I was talking with then Special Investigator in the District Attorney's office of Trinidad, Colorado, Lou Jirodo. He is now Sheriff of Las Animas County in south Colorado. He had been investigating the animal mutilation mystery since the early 1970s. In the fall of 1979, when I was interviewing him on camera and asked him who or what he thought was involved with the mutilations, he stunned me by saying that he and other investigators privately had come to the conclusion that they were not dealing with something terrestrial. They were dealing with something that he called "creatures not from this planet", who are actively involved with going to various pastures in the United States and other parts of the world and taking tissue and fluid from animals for reasons that are totally incomprehensible. As a law

enforcement officer, he had come to the conclusion that the silent, dark helicopters, which he and others had tried to investigate and follow, were behaving like some kind of camouflage.

There were many reports in law enforcement offices in the 1970s about people saying a silent helicopter was hovering over a pasture, then disappeared into a 'puff of cloud'. As Jirodo said, "Real helicopters don't dissolve into clouds."

Sheriff Jirodo was the first law enforcement officer to suggest to me, on the record, the link between the animal mutilations and something non-human, as well as the link between the animal mutilations and these dark helicopters being a camouflage for something non-human.

CF: Did you really believe the link to something non-human at that point?

LMH: When Lou Jirodo and I talked, I had probably already interviewed 150 people. I had heard a lot about the light. I had read file reports ranging from Canada and the United States through to Mexico and other parts of the world, in which maybe a

handful of these reports were about ranchers, especially those who said they had seen some kind of small being or creature in or around corrals or pastures where these mutilations occurred. They didn't know what they were looking at.

It was in the spring of 1980 that I got a call about a medical case that had been forwarded to Dr Leo Sprinkle. At that point, in 1979, he was Director of Counselling and Testing at the University of Wyoming in Cheyenne, Wyoming. Dr Leo Sprinkle had been one of the first courageous professionals to give some credence to what is now referred to as the "human abduction syndrome". He had been trying to help people who had been coming to his office reporting strange missing-time episodes, often associated with seeing a light in the sky. If they were driving, they would be home two hours later than they were supposed to be.

Dr Sprinkle had been contacted by a group in Arizona about a case of a woman named Judy Doraty. An audiocassette tape was sent to me to listen to because the woman had done a hypnosis session with a medical doctor in the south-west, trying to penetrate amnesia that went back to the spring of 1973. It involved an event of five people in her family, all watching a strange moving light that was pacing their car outside of Houston, Texas, in May of 1973. They all remembered pulling the car over to the side of



Mutilated steer, Caldwell, Kansas, photographed by Chuck Pine on 3 February 1992.

the road to get a better look at the light. And they all remembered that Judy Doraty, who got out to look at the light, got back into the car complaining of being nauseous and thirsty.

They then drove to the house of a relative who was taking care of their children. They were met by their relatives saying, "Where have you been? We've been frantic!" They were two hours later than they were supposed

to be, but none of the five people in the car knew that there was any problem at the time. After that, Judy Doraty suffered such severe headaches, pain and nightmares that she was basically incapacitated.

So, in 1980, I was sent the audiocassette tape that had been done by a medical doctor, in which Judy described her experience. After getting out of the car, Judy said she could see a beam of light coming from something in the sky down into a pasture where they had stopped their car, and that a calf—a brown and white animal—was rising in that beam of light.

I decided that I wanted to pursue that story further if I could. It literally took two months of talking with her husband and with Judy, assuring that there would be complete anonymity, that she would not be identified by her married name and location, before we were able to fly Dr Sprinkle to a location in the south-west and do a four-hour hypnosis session with her.

It was the first time her amnesia about that night had been penetrated, and her memory went beyond seeing a brown-and-white

calf rising in a beam of light. It included seeing four-and-a-half-foot-tall, grey-skinned creatures with eyes that she drew from her hypnosis session as being reptilian, meaning they had vertical slits, not human-looking but snake-like or alligator-like. They had four long fingers and some sort of claws or points at the ends. In this abduction sequence, she watched them excise tissue from parts of the calf.

I think this hypnosis session, and listening to this poor woman who was literally being torn apart physically, mentally and spiritually by something that had taken hold of her and her family back in '73, and listening to these details unfold under the skillful hands of Dr Sprinkle, was probably the turning point in my own professional life. I realised I had to take these reports about the lights, the non-human-looking creatures, and a connection to something that may be off planet, very seriously.

I suppose that was the real transition when I realised that I had to follow the facts of this story where they led. I could not hold onto some preconceived conclusions and make a film that would fit those preconceived conclusions—such as, there was a satanic link, or it was only predators or people.

Just to show you what I did do, a Catholic priest was one of the first people I interviewed about what satanic cults do with animals and humans in rituals. I showed the Catholic priest the photographs I was gathering from sheriffs' offices. The Catholic priest immediately said, "No, nothing you're showing me resembles anything I know about satanic ritual." I've heard that same thing now from many law enforcement officers who have called

me in to share files with them in their own investigation of either animal mutilations or actual satanic rituals. In cases where law enforcement has been investigating actual satanic actions or incidents, these don't resemble anything in the unusual animal deaths I have been researching since 1979.

CF: When we hear about animal mutilations, we usually hear references to cattle. But I understand that many different animals have been involved. Is this true?

LMH: Yes. Every domestic animal that you can think of, plus deer, elk, marmots, rabbits, wild birds. It is literally everything. In fact, the first cases back in the 1960s, reported in Canada, were horses, not cattle. The first story reported worldwide was a horse in southern Colorado. Again, not cattle. The cattle association began in 1973 in huge numbers. There had been cattle reported this way, but not in a major media way in the mid- or late '60s. It started with horses. Canada was first, then the Great Lakes region of the United States, and Pennsylvania. Those were the areas that were affected first.

What people hold in their mind is when the publicity began reaching *Time* and *Newsweek*, etc. Those were articles that began

around 1973-1974. By then, the phenomenon was spreading from the Great Lakes into the Midwest. It had already been reported in all the provinces of Canada. By 1975-1976, there were hundreds and hundreds of reports going on in the Rocky Mountain states, Mexico, Central America, South America, Australia, the Canary Islands off the coast of Africa, and most of Europe. This was a worldwide phenomenon by the mid-1970s.

CF: Is it still going on? Has the phenomenon increased, decreased or remained about the same in the 1990s?

LMH: Right now as we speak, in the last two months I've been contacted by Sky Television and the BBC in England about cattle mutilation reports in Northern Ireland. For the last few months, throughout the island of Puerto Rico there have literally been hundreds of animals found with puncture marks on the sides of their necks—cattle, horses, goats, sheep, chickens, cats. The two holes in the side of the neck are dry. According to a photographer who is taking photographs of these animals for a local newspaper, he has not seen any of the animals yet with any fluid or blood on the feathers, hair or on the ground.

It is interesting that Puerto Rico is now having episodes of



Close-up of steer's head, showing excision of jaw tissue, bone and teeth.

'puncture wounds', because back in the early 1970s to mid-1970s when animal mutilations were being reported worldwide, Puerto Rico had what they called "the Vampire of Moca". Moca is a city in the island of Puerto Rico. Back then, people were reporting finding animals dead with two holes in the side of their neck and no blood or fluid in the body. That's why they called it "the Vampire" of Moca. Well, here it is,

1995, and this same phenomenon is occurring again.

The islanders in both periods of time have reported seeing an intense, glowing light over the area where the next day they would find these animals. Not all these animals have only puncture wounds. Many have the classic incisions of the ear, the eye, the tongue and jaw flesh, the genitals, and the rectum cored out. That's the classic mutilation pattern.

In the United States in the last two months there have been reports of cattle mutilations in Susanville, California. There have been more than a dozen cattle mutilations reported in Potosi, Missouri. Comanche and Tillman counties in southern Oklahoma have had more than a dozen mutilations there. There have been more than a dozen cattle mutilations reported in one ranch in British Columbia, Canada, since this past Spring.

That gives you an overview of what has been happening in just a few months this Fall. There's not been a single year, since I began investigating in 1979, that at the end of the year I don't end up with dozens and dozens of reports of strange animal deaths from all over the world.

CF: Do you have any clue as to what the possible reason

behind these mutilations could be?

LMH: In my book, *An Alien Harvest*, I ventured a possibility based on what the people in the human abduction syndrome said. I featured the Judy Doraty case, and another very famous one called the Cimarron case in 1980 in New Mexico. In both those cases, the women who were involved in the abduction had the impression that the animal mutilation phenomenon was occurring because this non-human intelligence has some kind of survival problem, that the tissue and fluid taken from the animal is used as some sort of sustenance. That's as far as I could say in *Alien Harvest*.

Budd Hopkins, in his book *Intruders*, goes further. He suggests that we are dealing with a non-human intelligence that is harvesting sperm, ova and genetic material from humans—and, I would add, from animals—to create some sort of a hybrid being. It's possible that what is happening with the animals is that both efforts—animal mutilations and human abductions—are serving the same purpose: to create some sort of a hybrid being. If you get that far with hypothesising, you are still left with the enormous question of *why*. And I don't know any investigator who has an answer to that.

CF: You mention that people see bright lights around sites of cattle mutilations. I have heard reports of people seeing bright lights around sites of crop circle formations. Do you feel there is any connection between the two phenomena?

LMH: The link between the alleged UFO phenomena and the crop circle formations is less substantial than in the animal mutilations. Probably the strongest link of all is with the unusual animal deaths, because going back to the beginning of the animal mutilation phenomenon, there have been photographs. Many photographs are of animals being found right in the middle of circles in pastures with physical traces on the ground and physical effects on the soil. The bodies themselves constituted a gigantic source of physical evidence that something really strange has been happening on the planet for decades.

When you go to the crop circle formations, which began essentially in terms of complex formations in 1989-1990, you find that there are many hundreds of reports of moving lights in the sky at night. But in terms of a direct link between the moving lights and a formation occurring, there is really not much link. By this I mean there is no real eye-

witness to the lights having a direct link with the formation of a circle. It's circumstantial.

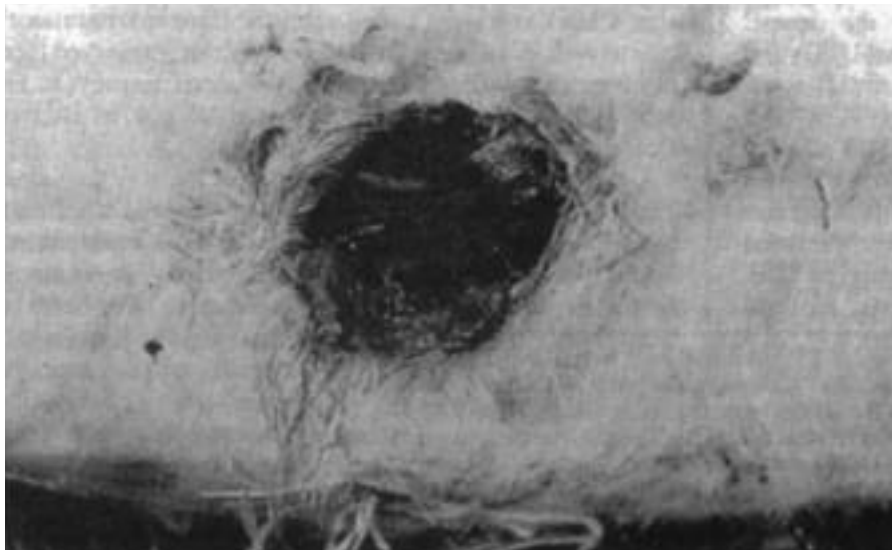
In my book, *Glimpses of Other Realities, Vol. 1: Facts and Eyewitnesses*, I do quite a substantially detailed report with the names and drawings of four people who were in fields in 1993. All four reported and drew a round object in the sky that appeared, when looked at through binoculars, to have structured, lighted planes or windows around it and light moving in and out of it near fields where formations had occurred or occurred later. Again, there was no direct eyewitness account between seeing this craft and seeing a circle form. It is all circumstantial again. [This has since changed; see report on crop circle creation in NEXUS 3/06. Ed.]

"...the women who were involved in the abduction had the impression that the animal mutilation phenomenon was occurring because this non-human intelligence has some kind of survival problem..."

Dr John Altshuler, a haematologist and pathologist in Denver, Colorado, who has been a very respected haematologist there for 25 years, began working with me very quietly and privately in 1989, giving up his time, his money and his effort to look at tissue samples from animals. If I could get the tissue sample to him, he would study it under a microscope. He began to find that the tissue from some of the mutilated animals appeared to be subjected to very high heat in the 300° Fahrenheit [150° Celsius] range. He was puzzled because he could not find carbon residue as you would find under normal laser surgery. The lack of carbon residue under a microscope meant to him that something was heating the cells, but it wasn't like a traditional laser. So we don't know what the technology is, but clearly there is a cutting technology that produces the side-effect of heat.

Four years ago, I started coordinating scientific research efforts with Dr W. C. Levensgood, a retired biophysicist. He became very interested in what was happening to cereal crops with these strange formations.

So, slowly but surely, a few of us started getting barley and wheat, and so forth, to him for study. Well, today, in 1995, he has looked at enough samples from Canada, the US, Australia and England to form a hypothesis. In many of the formations he finds fundamental biophysical and biochemical changes right inside the cells of the plants, as well as other changes that he thinks are related to an intense and complex energy focused on the crops for a brief period of time. He thinks that microwaves are part of the energy system, but not all. Again, this focuses on an energy we don't



Close-up of oval cut in belly of Brahman steer; genitals removed. Calumet, Oklahoma.

understand, but suggests a technology is involved.

So, for the crop circles and the animal mutilations, we have been doing scientific studies and we are finding hard physical data. It is irrefutable physical data that something is happening that is pointing toward a sophisticated technology.

The crop circles and the animal mutilations are hard physical evidence of something extraordinary. They are not hoaxes. That's not to say that some people have not gone out with boards and strings and laid down formations. Certainly they have. Yet, when Dr Levengood looked at the plants from known hoaxes, they did not have the fundamental biophysical or biochemical changes in the cells. You cannot change the respiratory rate in the cells of plants by simply stomping on them with feet or boards.

CF: As we all know, there are many pieces to this puzzle we call "contact", and we have to look at all of them if we hope to make sense of any of this. When I was thinking of questions to ask you about animal mutilations, I was leery that my readers would find the subject very scary, maybe even horrifying. This could be particularly true for the portion of *Contact Forum* readers experiencing contacts or abductions. You mentioned the link between animal mutilations and human encounters. Could you explain that link in more details so it may put aside some of the personal fear that one may feel when hearing about these accounts?

LMH: My first book, *An Alien Harvest*, was subtitled *Further Evidence Linking Animal Mutilations and Human Abductions to Alien Life Forms*, because that's where the evidence, facts and eyewitness reports lead. For people who say, "But the animal mutilations are so scary that linking them to the human abduction syndrome would terrify people," I can only give myself as evidence and proof. I've been out in pastures alone, all over the United States and other parts of the world as far away as Peru. I have been investigating unusual phenomena, including the animal mutilations, since 1979 and I am still here. Nothing physically has ever happened to me. The ranchers I have interviewed in literally hundreds of cases now—who have seen either discs set down in their pastures or light in their pastures, or even encountered what they describe as non-human beings—are still here. Their families are unharmed.

There is something about whatever this phenomenon is, that it is treating animal populations very differently than it is the human population. When it comes down to the insights from the men, women and children who have been involved in the human abduction side of things, and in the cases that featured in *An Alien Harvest*, the abductees involved got the distinct impression that what was going on with the mutilations had something to do with this other intelligence's survival. It is a story of great need on the part of something out there. And that need may be in the form of some kind of sustenance.

If animals on this planet are affected by this need, and there is a focus on tissue, fluids and genetic material from cattle, horses and other domestic animals, then the ranchers and farmers certainly have a right to say, "But not my property!" That is one of the things people don't realise. There is an economic loss that has enraged farmers and ranchers.

The human attitude in all this is to say, "If there is something out there that has a problem, and it needs something from our planet to help it survive, why doesn't it deal with us directly? Why isn't it straightforward?" I've talked with ranchers who have said, "Look, if there's something in outer space that needs my cow, I'm happy to help, but it has got to trade with me like we do on this planet."

I think that brings the situation right down to what humans would like; that is, that whatever intelligence we are dealing with—whether you are an abductee, whether you're a rancher who's got unusual animal deaths, whether you're a farmer who's got a gigantic 460-foot crop formation in the middle of his field—whatever the phenomenon, humans would like to understand the motive. We would like to have some kind of straightforward dialogue with this intelligence. We would like to be dealing in the barter system like we do on this planet.

It may be naïve on our part. It may be we are dealing with an intelligence so advanced, so complex, so sophisticated that, even if it had some kind of a survival problem, just straight one-on-one communication with human beings may not even be possible. That is a distinct consideration.

CF: Has there ever been a report of an animal-type mutilation on a human?

LMH: No. Not in any of the cases I've investigated. On the issue of fear—fear of this phenomenon and fear of what's happening in terms of the unusual animal deaths—my personal opinion is that humans have nothing to be afraid of.

Correspondence:

Please address correspondence to: Linda Moulton Howe, LMH Productions, PO Box 300, Jamison, PA 18929-0300, USA. Fax: +1 (215) 491 9842. Toll-free information for books and videos: 1-800 707 9993. E-mail: LMH333 @AOL.com. All photos courtesy of Linda Moulton Howe Productions and can be found in Howe's *Glimpses of Other Realities* (1994).

LINDA MOULTON HOWE DOWN-UNDER

Australian readers may be interested to note that Linda Moulton Howe will be touring Australia after her presentation at the annual NEXUS Conference in Sydney on 24-25 May. Details of talks, etc. will be announced in NEXUS April-May issue. If you are a local organiser, feel free to contact us to discuss having Linda speak in your area. Phone Duncan on (07) 5442 9280.



Linda Moulton Howe investigating a mysterious 420-foot-long crop formation in Cherhill, England, on 8 August 1993.



DR GREER'S UFO MANIFESTO

One of the few things that UFO researchers *do* agree on is that there is a cover-up of information pertaining to the UFO phenomenon and, further, that the governments of the world are long overdue in coming clean with what the military knows on the subject.

Indeed, it has reached the point where an increasing number of people involved with UFO research *on the 'inside'* are considering 'defecting to their conscience'. They feel that the information they harbour is of such importance to humanity that it must be shared. Many have already 'defected', and can be seen speaking regularly at major international UFO conferences.

It would now appear that a mass 'defection' is imminent, as evidenced by the following letters.

* * * * *

15 November 1996

To: President William Jefferson Clinton
 Vice President Al Gore
 National Security Advisor, Tony Lake
 Secretary of Defense, William Perry
 Secretary of State, Warren Christopher
 Director Central Intelligence, John Deutch
 General Shalikashvili, Chairman, Joint Chiefs of Staff

Mr Arlen Specter, Chairman, Senate Intelligence Committee
 Mr Larry Combast, Chairman, House Intelligence Committee
 Mr Strom Thurmond, Chairman, Senate Armed Services Committee
 Mr Floyd Spence, Chairman, House National Security Committee
 Dr Daniel Goldin, Director of NASA
 FBI Director, Louis Freeh
 Attorney General, Janet Reno

From: Steven M. Greer, M.D.,
 Director of CSETI

Re: Planned Disclosure on the UFO/Extraterrestrial Subject and National Security Oaths

The CSETI (Center for the Study of Extraterrestrial Intelligence) *Project Starlight* initiative has now identified several dozen former and current military, intelligence and defense contractor-related witnesses to UFO/ETI events and projects. As set out in a number of documents and briefings (see enclosures) it is our intention to have these important witnesses provide open, public testimony on this matter in the very near future.

In the summer of 1995, we requested that the President take appropriate steps to allow these witnesses to speak openly,

without civil, military or other penalties. Since then, there has been an exponential growth in the number of such witnesses who wish to come forward. Some of them are elderly, and suffering from serious medical conditions. We feel that these patriotic and courageous heroes of our country—who very much wish to tell their fellow citizens the truth on this matter—must not take this information to their graves. Therefore, we are asking from you a clear determination regarding their freedom to speak openly on this subject.

Over the past three years, we have found that members of Congress, the Executive Branch, military and intelligence leaders have not been briefed on this important matter, and that operations related to the subject exist as 'unacknowledged' special access projects. Most operations exist in the private aspects of the military-industrial sector, with apparently extra-constitutional funding and oversight.

As such, and until established otherwise to our satisfaction, we regard these operations, and all so-called 'security oaths' derived from them, as illegal, and therefore non-binding for these witnesses mentioned above.

Therefore, UNLESS OTHERWISE DIRECTED BY 1 JANUARY 1997, we will move forward with a series of events whereby these witnesses may provide

THE TWILIGHT ZONE

open, public testimony. If we do not hear from you, or if we hear that you concur, we will proceed with a public disclosure after that date. Only if you notify us specifically that such witnesses to UFO/ETI-related matters are still bound to silence will our plans for a disclosure by them be altered.

As mentioned in previous briefings and documents to members of the Administration, the military, the Congress and others, it is our intent to effect this disclosure in a way which is scientific, forward-looking and hopeful. It is not our intent to cause instability for our nation or the world, but, rather, to mitigate the clear dangers which current covert management of this issue presents. We invite your advice, assistance and support in this process of disclosure on a matter which is arguably the most important of the twentieth and early twenty-first centuries.

Testimony from these witnesses will include, but not be limited to:

- Retrieval of disabled extraterrestrial devices and extraterrestrial life forms
- Reverse-engineering projects related to extraterrestrial technology
- Reconnaissance and tracking of UFO/extraterrestrial vehicles
- Covert projects related to the subject
- Confirmation of military/UFO encounter cases
- The nature and scope of disinformation programs related to the subject

We hope to hear from you regarding this matter as soon as possible.

Thank you for your attention to this request for a determination on the status of these witnesses as it relates to providing public testimony during 1997.

Respectfully,
Steven M. Greer, M.D.
Director of CSETI
E-mail: 103275.1472@compuserve.com

* * * * *

At 12 am today, 1 January 1997, the deadline expired for US Government correction of our previously stated position that military, intelligence and other government-related witnesses to UFO events/projects were free to speak openly of their knowledge and experiences.

In a letter dated 15 November 1996, CSETI *Project Starlight* stated the position that, since projects related to UFOs exist and have existed outside legal constitutional oversight and control, all security oaths related to such projects are null and void. The letter stated that, "UNLESS OTHERWISE DIRECTED", this assessment would be regarded as accurate and all such government witnesses would be free to speak openly as of 1 January 1997.

This letter was sent to, and acknowledgement of receipt has been obtained from: [see list in previous letter. Ed.]

Additionally, this document has been sent to the US Supreme Court, and acknowledgement of receipt is pending.

The letter is attached to this file. Numerous background and position papers were enclosed with this letter, including a detailed listing of agencies, entities, corporations and covert facilities associated with the UFO/ET subject.

The "UNLESS OTHERWISE DIRECTED" (UNOD) format is routinely used in governmental and military situations and indicates that unless otherwise

instructed, the position and described actions are approved implicitly. This letter clearly stated that we intend to assemble as many bona fide government officials and witnesses as possible, and that they will speak publicly and openly about their knowledge of UFO/ET events and covert projects.

Since the letter was issued, senior and reliable intelligence sources have stated that no response or interference would be forthcoming *vis à vis* plans for government witnesses to publicly come forward with their testimony.

Significantly, as of 1 January 1997, no government entity, official, agency, department or office has contradicted this assessment or stated that such government witnesses are any longer bound to silence.

CSETI Director Dr Steven Greer has been meeting with various government officials, including members of the US Congress (House and Senate), to discuss this matter and ask for open hearings on the subject of UFOs/ETI.

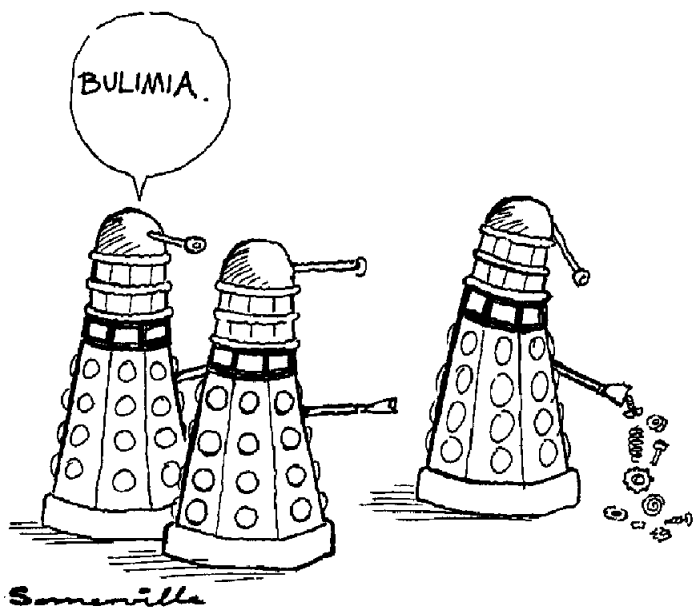
In preparation for these disclosures, and in light of the expiration of the above deadline, a meeting of such military, intelligence, government and corporate witnesses will be held later this winter. Bona fide witnesses, or contacts to such witnesses, should contact Dr Steven Greer immediately concerning participation in this event. A similar, but smaller, event was organized by CSETI in 1995, and was attended by US astronauts, US and Russian military officials and others.

The meeting this winter will assemble a significant number of such government UFO witnesses to meet with congressional and other public officials and to request open hearings within the Congress, so that they may testify openly about their knowledge and experiences related to UFOs/ETI.

Should Congress not agree to open hearings, other venues, such as the United Nations or a private disclosure event, will be pursued to effect a public acknowledgement of the reality of UFOs/ETI.

This notice may be distributed freely among all newsgroups, media and interested parties, without further permission or restrictions.

CSETI
1 January 1997
Steven M. Greer, M.D., Director
Ph: 704-274-5671; Fax: 704-274-6766
E-mail: 103275.1472@compuserve.com



13,000-YEAR-OLD MESSAGE FROM ORBITING SPACESHIP?

In 1928, European radio operators in France, Germany, Norway and Holland noticed a strange phenomenon. When they transmitted a series of signals in all directions, they received two series of echoes instead of one. Normal echoes, after circling the Earth by bouncing several times on the ionosphere, always came back after a normal delay of one-seventh of one second.

On the contrary, abnormal echoes always came back after an interval varying from three to 15 seconds, as if they had bounced from some object located at a distance from Earth of 450,000 to 2,250,000 kilometres, but always a little bit farther than the Moon.

As usual, this discovery was kept as secret as possible, and after several years it was even completely forgotten.

Then a few years ago, a young Scottish astronomer by the name of Duncan Lunan had a bright idea. He thought that these signals could very well have come from an alien spaceship orbiting the Earth at about the same distance as the Moon, and that the variable intervals between the transmission of signals and reception of echoes might represent an intelligent, coded message representing geometric figures or even the map of a constellation, as Bracewell had already suggested in 1968.

With the usual television technique of so many dots per line and so many lines per frame, Lunan transferred the various intervals on a chart as he would have done on a television screen. He then successively obtained several different drawings of the same constellation, with different orientations but with the same star always at the centre.

As Lunan says in his book, *Man and the Stars* (Souvenir Press, London, 1974), as an astronomer it did not take him long to recognise the constellation as that of Bootes, and the star as Epsilon Bootis—which our ancestors called Izar, and which is located at about 103 light-years or 975 million million km from the Earth.

One of Lunan's important discoveries was that the configuration of the Bootes constellation shown on his charts was not exactly the same as that which we can see today from the Earth, and he found an explanation.

The big star, Alpha Bootis, or Arcturus, is one of the fastest moving stars in our skies. It has an angular motion of 2.29 seconds of arc per year in a south-west direction, and its position in the sky moves by an apparent diameter of the Moon in only 800 years.

According to Lunan, Arcturus now appears to us about seven degrees apart from where it appears on the chart, which means that the map could have been established and transmitted 11,000 years ago.

However, Arcturus does not move with a constant apparent velocity, and, taking an average of only two seconds of arc per year, we obtain a date of 12,600 years ago—which corresponds to those of the other stars of the same constellation.

As a consequence, assuming there is an alien spacecraft presently orbiting the Earth, it arrived in its present position about 13,000 years ago; and, after observing the configuration of their native constellation of Bootes as they saw it from their orbit around the Earth at that time, the astronauts on board have been continuously transmitting signals since then, waiting for human astronomers to become intelligent enough to understand them.

Finally, around 1900, the first radio signals were transmitted from Earth by Marconi, Tesla and others—and the Izarian astronauts knew they were now in business.

They started retransmitting the Earth signals, with various intervals representing a code and the code representing a map of the constellation of Bootes with the star Izar at the centre.

For me, however, the most extraordinary and the most controversial part of the story is not so much the constellation map as the intervals between the different signals from the alien spacecraft.

These intervals are always an exact number of seconds of time—and, as you know, our second of time is supposed to be a human invention. Up to now, the Sumerians have been credited with the fantastic idea of dividing the solar day into 86,400 equal parts they called seconds.

In other words, these alien astronauts from a distant planet in outer space, who had been orbiting our planet in a spacecraft for 13,000 years, knew from the very beginning that the human race divided the solar day into 86,400 seconds of time.

And how could they know it unless they made the division themselves, and landed on the Earth to teach the humans how to use the second to measure the passing of time?

(Extracted with permission from Our Cosmic Ancestors, by Maurice Chatelain, published by Temple Golden Publications, Sedona, Arizona, USA, 1988.)

HUNTER-GATHERER



THE TWILIGHT ZONE

ANOTHER SCIENTIST REVEALS UFO SECRETS

Virtually every UFO researcher on the planet is familiar with the name of Robert Lazar, who claimed to have worked on projects that consisted primarily of 'back-engineering' alien craft while based at the super-secret Area 51 in Nevada, USA. As usual, opinion has been divided as to the credibility of his story.

But now, another scientist has come forward who pretty much confirms most of Lazar's story, and goes a lot further.

Dr Michael Wolf, Emeritus of the New England Institute for Advanced Research, Member of the New York Academy of Science, and Patron Member of the American Association for the Advancement of Science, has decided to go public with his knowledge of alien contact, abduction experiences and technology.

Now in his mid-50s, Dr Wolf is dying from a degenerative spinal condition, and wishes the truth about UFOs to be known.

When American UFO researcher James Courant, in a taped interview, asked Dr Wolf why he was going public with this information at this time, he replied:

"I'm going public at this time for the people. I've been encouraged by people in the government. You know, there's a whole new generation of bureaucrats now; they're younger. The older people are retiring—I wouldn't say dying off, but technically they are retiring and they're out of business. A lot of young people come in and are saying,

"Why does our government have to keep lying?"

During the interview, Dr Wolf told of working as a security consultant for the National Security Council, and also of working at Area 51 as a Team Leader, in terms of scientific teams trying to 'back-engineer' alien technology.

When pressed for specifics on the number of alien 'ships', etc., Dr Wolf replied: "Well, I think we have nine or more...not in working condition, not to mention the pieces of one we've had. But I've always wondered a very basic question, which no one has really been able to answer, and that is, 'Have they deliberately given us this technology, to see what we're going to do with it? Is it a test?' The crashed ships and dead bodies—are they waiting for the day, if it hasn't occurred already, that we're going to combine human and alien DNA and try a hybrid of our own?"

Courant invited Dr Wolf to comment on Bob Dean's claim to have seen an "Assessment" classified Cosmic Top Secret, and Wolf's own claim to have seen the same document:

"You saw the similar "Assessment" documents that Bob Dean saw?" asked Courant.

"NATO Assessments, *Blue Border Reports*—yes, I did," replied Dr Wolf, and added: "Bob wasn't too far off the mark. I did see some 'interrupts' of the governments...which, don't forget, makes its own copies of UFO films...they go around, videotapes...and I had people who would send me copies of those tapes. I saw five minutes of Bob Dean at a MUFON [Mutual UFO Network] conference; and I looked at it and I said, 'I want to find out more about this guy' because what he'd read, I'd read. What he was talking about—I had read the same thing."

Dr Wolf insisted that the US Government "...has had relations [with aliens], whether you want to call them informal treaties or real treaties. I don't know what the alien understanding of that is, but I'm sure if they were

trading technology for abducting a few people to take sperm or eggs...I think that was more than a few."

"Is the treaty just done with one group of aliens?" asked Courant.

"No," said Dr Wolf, "I think it was done with several. I know the Nordics are pretty much involved with the Greys. I don't know whether there are several Greys, but I have never met a Grey I didn't like [chuckle]. But the fact is that the only Greys I have ever come into contact with, have dolphin-like skin and personalities to match... physical effects are just like the dolphins; they want to be touched and cared about."

"But there are people writing books about their traumatic kidnappings and abductions," argued Courant.

"Well," replied Dr Wolf, "you have got to understand and put yourself in the place of the first-time abductee. It is a shock. You are being exposed to a world that you don't know even exists; everything is, if you'll pardon the pun, 'alien' to you. You're suddenly separated from your comfortable existence where you know most of the things that are going to happen to you. Here, it's a situation where you have no idea what's going to happen next. Of course it is going to induce post-traumatic stress disorder."

"There are 35-40,000 starving children a day dying on this planet and there are a lot of Hollywood stars and a lot of other people who are very, very concerned with what we're doing to this planet, and what we're doing to the children who are the hope and future of the world. Which is why I'm going public... I've offered a well-written book, a good book, and all the proceeds go to a children's charity. I'm not making a nickel," said Dr Wolf.

"You feel the time is *now* to get the truth out?" asked Courant.

"The time is now," replied Dr Wolf.

[The book mentioned above is titled *The Catchers of Heaven: A Trilogy*, by Dr Michael Wolf, and is published by Dorrance Publishing Co. (643 Smithfield Street, Pittsburgh, Pennsylvania, 15222, USA). NEXUS will attempt to obtain a copy for review in the April-May 1997 issue. Copies of James Courant's video presentation at the 15th Leeds International UFO Conference can be obtained from Quest Publications (phone +44 01943 850860; fax 01943 850637).]

(Source: *UFO Magazine*, UK, November/December 1996)



REVIEWS



PRODUCT

Reviewed by Duncan Roads

ELANRA MK II Therapeutic Ioniser

Produced by Bionic Products Pty Ltd
Price: AUD\$695.00 (rebate available from most health funds)

Available: **Australia**—Bionic Products Pty Ltd, PO Box 555, Robina, Qld 4226, ph (07) 5593 1122, fax (07) 5593 0022.

It is not often that I do product reviews, but with this device I am happy to make an exception. It is a really efficient and useful machine. If you own or run a small business or clinic, you should have one of these devices in the office. I have had one running in our office now for some time, and I can honestly say that:

- 1) the air smells better, each time I open up the office;
- 2) I have not had itchy eyes and a runny nose since we set it up;
- 3) I feel that I have improved my level of concentration.

The ELANRA is the only ioniser to be patented as a medical device. In fact, it has the capability of being programmed in one of 72 different configurations, depending on specific needs as required. It has the advertised 'air cleaning capability' of 75 square metres, and is best situated up to two metres away for therapeutic effects.

By now, if you are like me, you have a drawer full of el-cheapo and second-hand negative ion generators that do nothing (except zap stray cockroaches trying to live inside). Do yourself a big favour: if you are serious about improving the air quality in your home or workplace, this is what will really work.

BOOKS

Reviewed by Ruth Parnell

MAPS OF THE ANCIENT SEA KINGS

by Charles H. Hapgood

Published by Adventures Unlimited Press (1996), Kempton, IL, USA

ISBN 0-932813-42-9 (315pp l/f s/c)

Price: AUD\$35.00; NZD\$39.95 + p&h; STG£16.50; USD\$19.95 + p&h

Available: **Australia**—NEXUS Magazine, ph (07) 5442 9280; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—NEXUS Office, ph 01342 322854; **USA**—Adventures Unlimited, ph (815) 253 6390.

In the 1960s, American anthropologist and geographer Charles Hapgood conducted a study of ancient sea charts and found astonishing evidence previously overlooked by researchers.

One such map, based on long-lost charts, was drawn in 1513 by Turkish Admiral Piri Re'is. It depicts Antarctica in a relatively ice-free state, which is surprising considering the continent has been iced over for possibly 6,000 years and, in any case, was only 'discovered' in the 19th century AD.

After detailed analysis, Hapgood had to conclude that an unknown worldwide civilisation must have existed in antiquity and possessed the advanced skills and technology to be able to chart the globe—as evidenced in the ancient form of spherical trigonometry used in the Piri Re'is map projection.

Charles Hapgood's discoveries have been largely passed over by academia, and his books, including his 1958 classic, *Earth's Shifting Crust*, hard to come by. *Maps of the Ancient Sea Kings* was first published in

1966 but has been out of print for 20 years until now. But Hapgood's theories are reaching a new audience, e.g., as seen in the Flem-Ath research team adopting his crustal displacement theory in their hypothesis that Antarctica was once Atlantis.

Maps of the Ancient Sea Kings is a treasure trove of charts and diagrams and includes the world maps of De Canerio (1502), Reinel (1510), Oronteus Finaeus (1532), and Hadji Ahmed (1559) plus a wealth of scientific detail. Definitely a fascinating book to peruse or study.

THE COMING ENERGY REVOLUTION: The Search for Free Energy

by Jeane Manning

Published by Avery Publishing Group

(1996), Garden City, NY, USA

ISBN 0-89529-713-2 (255pp s/c)

Price: AUD\$26.00; NZD\$25.95 + p&h; STG£12.00; USD\$12.95 + p&h

Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric B/shop, ph (02) 9212 2225; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—NEXUS Office, ph 01342 322854; **USA**—Adventures Unlimited, ph (815) 253 6390.

At last, a book aimed at the general public about the potential of non-polluting, new-energy technologies that could transform our lives for the better. Author Jeane Manning, a freelance journalist specialising in the study of 'free-energy' R&D, is convinced that many of the ideas and technologies of the free-energy 'movement' are valid and workable. Sadly, progress is so often stymied by lack of funding, scientific inertia, corporate self-interest, and sometimes even by the inventors' personal eccentricities.

The Coming Energy Revolution is divided



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into four parts. Part 1 considers revolutionary theorists and inventors of the past, such as Tesla, Keely, Moray, Reich and Schauburger, and their contribution in laying the foundations for a new era of energy production in harmony with nature.

Part 2 considers the physics of space or zero-point energy, and some of the inventors who have made recent inroads in developing solid-state, anti-gravity and magnetic devices to tap into this energy. Other emerging new-energy devices utilising cold fusion, thermodynamics, hydrogen and water are covered in the third part of the book.

Part 4 deals with the potential amidst the problems, e.g., the socio-economic realities of adopting new technologies, harassment of inventors, and the power of vested interests vs the power of the people. Manning's excellent resource list will help kickstart into action anyone who wants to get involved in this new-energy revolution.

PSYCHIC WARRIOR

by David Morehouse

Published by Michael Joseph Ltd (1996),

UK, & St Martin's Press (1996), USA

ISBN 0-7181-4178-4 (258pp h/c)

Price: AUD\$35.00; NZD\$49.95;

STG£16.99; USD\$/n/a

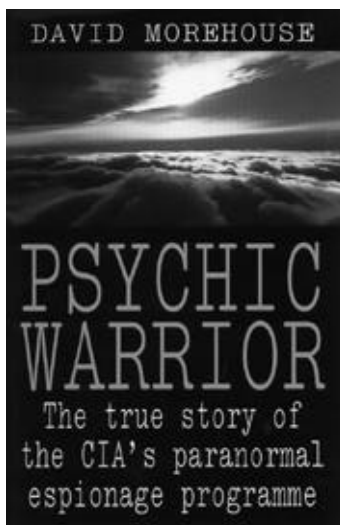
Available: **Aust**—Cameron Books, ph/fax

(047) 58 7676; Sydney Esoteric

Bookshop, ph (02) 9212 2225;

NZ/UK/USA—Dist. by Penguin Books.

In late 1995 the CIA, in cahoots with the Defense Intelligence Agency, implemented a well-planned media disinformation campaign to discredit remote viewing (RV) in the eyes of the public and downplay the extent of its use. This was damage control



in anticipation of several US military remote viewers like David Morehouse spilling the beans on the government's former psychic warfare program, *Stargate*, and confirming that new programs are very much alive and well-funded.

David Morehouse is a courageous man with an extraordinary story that transcends time and space. In 1987, as a US Army Infantry officer, he was shot while on training operations in Jordan, and soon after became plagued by visions and out-of-body experiences. Before long he was retrained and recruited as a remote viewer into *Stargate* and other covert CIA and DIA ops.

One time, in a DIA set-up during the Gulf War, Morehouse and colleagues independently zeroed in on the same thing at their given RV target site: canisters emitting deadly biochemical agents amidst the cover

of burning oil wells—a cause of Gulf War Syndrome?

By the early '90s, disenchanted with the DIA's remote-influencing program, David Morehouse resolved to inform the public on what the covert military/intelligence community was really up to, and make us all aware of RV's potential—for good or ill.

In 1995, as an Army Major, he was forced to resign on absurd charges, but by then he'd already survived several murder attempts, Prozac in a psychiatric hospital and the threat of courtmartial. Not only is he blessed in finding a publisher, he's very lucky to be alive.

PREDICTIONS FOR A NEW MILLENNIUM

by Noel Tyl

Published by Llewellyn Publications (1996), St Paul, MN, USA

ISBN 1-56718-737-4 (277pp s/c)

Price: AUD\$27.95; NZD\$34.95;

STG£11.99; USD\$14.95; CAN\$20.50

Available: **Aust**—Cameron Books, ph/fax

(047) 58 7676; Sydney Esoteric B/shop,

ph (02) 9212 2225; **NZ**—Dist. by

Peaceful Living, ph (07) 571 8105; **UK**—

Airlift Book Company, ph 0181 804

0400; **USA**—Llewellyn Publications, PO

Box 64383, Dept K-737-4, St Paul, MN

55164-0383, ph (612) 291 1970.

A prolific author of astrology textbooks, Arizona-based Noel Tyl has turned his attention to predicting the future of nations in this latest book, *Predictions for a New Millennium*. He covers the period from 1996 to the year 2012 with 58 predictions about dramatic political, economic and social events. His forecasts are based on historical trends as well as precise astrologi-

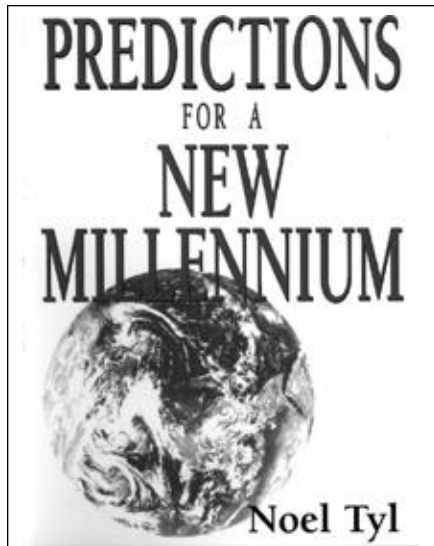
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cal indicators (which he includes as footnotes on each page so as not to overwhelm the novice).

Some of the world-shaping events that Tyl sees coming include: the complete reorganisation of the Catholic Church and the United Nations; the reunification of the two Koreas; two US Presidents assassinated—in 2004 and 2012; the abandonment of Communism in China by the turn of the century; the fall of Saddam Hussein; Islamic fundamentalist takeover of Algeria by 1999; independence from Britain for Australia in 2001 and New Zealand in 2002; ever-increasing political manoeuvrings towards a world government by 2012; and officially-acknowledged extraterrestrial contact by 2004.



Noel Tyl has well-honed astrological abilities, as seen in his correct predictions of the fall of the Soviet Union, the Gulf War and the Israel-PLO Peace Accord, so his forecasts are well worth watching. But he makes no mention of the anticipated widespread destruction due to Earth changes, so often predicted by seers, old and new.

THE TOMB OF GOD by Richard Andrews and Paul Schellenberger

Published by Little, Brown & Co. (1996), London, UK
ISBN 0-316-87997-5 (513 pp h/c)
Price: AUD\$39.95; STG£20.00; US\$29.95
Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric B/shop, ph (02) 9212 2225; **UK**—Little, Brown & Co., ph 01711 911 8000; **USA**—Little, Brown, & Co., ph (617) 227 0730.

The mystery surrounding Rennes-le-Château and its sacred landscape geometry is now even more intriguing with these revelations by archaeologist/historian Richard Andrews and surveyor/mathematician Paul Schellenberger in their book, *The Tomb of God*. According to the authors, the prominent landmark, Pech Cardou—already identified by other researchers as a pivotal marker in the region's groundplan—could be even more significant than realised, for in all probability it contains a buried treasure: the tomb of Jesus of Nazareth!

The authors admit that Christian believers might regard their assertion as heresy, but, having conducted detailed historical research and geometrical and symbolical analysis, they contend that this is the only conclusion which fits the facts. Conversant with several 'underground' theories as to

Jesus' post-Crucifixion fate (minus the Resurrection scenario), and familiar with the alternative Christian Gnostic tradition, the authors conclude that Jesus Christ's physical remains—arguably the Holy Grail of legend—were eventually excavated in Jerusalem in the 12th century by the Knights Templar and removed to the Languedoc in France for safekeeping.

The authors' rationale and evidence are compelling, but their argument can't be validated until the Pech Cardou site they have identified can be excavated. In Catholic France, and with so many secrets at stake, the authors don't see permission being granted in the foreseeable future.

CONVERSION OF GRAVITY FIELD ENERGY—Revolution in Technology, Medicine and Society with Dr Hans A. Nieper

Published by MIT Verlag (1981, 1985, 4ed) Oldenburg, Germany
ISBN 3-925188-07-X (384pp s/c)
Price: AUD\$35.00; NZD\$45.00 + p&h ; STG£20.00 + p&h; USD\$27.00 + p&h
Available: **Aust**—NEXUS Magazine, ph (07) 5442 9280; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—NEXUS Office, ph 01342 322854; **USA**—Adventures Unlimited, ph (815) 253 6390.

In 1980, the internationally known gravity researcher and medical scientist Hans A. Nieper, M.D., organised a Symposium on Energy Technology in Hannover, Germany, to warn of the impending energy crisis and explore the possibilities of the tachyon energy field in solving it. The so-called tachyon field—the sea of energy which permeates space and everything in it—can potentially be tapped using relatively small converters



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with little effort, to obtain more than enough energy to power the world.

Dr Nieper published the proceedings of this landmark Symposium in German in 1981, but expanded the content with proceedings from a 1981 Toronto Congress on Gravity Field Energy for this English-language edition released in 1985. It remains an important textbook in its field and should be studied by anyone with an interest in 'new energy' as applied to science, technology and medicine. It covers the theories and technologies developed by Tesla, Moray, Coler, Bearden, Schaffranke, Seike, Kieninger, DePalma, Newman, Prioré, Bedini, and more, and highlights the medical advances made using tachyon energy, especially in treating cancer.

Considering the seventeen years that have elapsed since the Symposium, it is cause for concern that our energy problems are no better solved today and that new energy solutions have still not achieved widespread 'perfection' and adoption. It seems that the powerplays of vested interests are as strong now as when the Symposium warned of them back in 1980.

ENTERING THE CIRCLE: Ancient Secrets of Siberian Wisdom by Olga Kharitidi, M.D.

Published by HarperSanFrancisco (1996), California, USA

ISBN 0-06-251417-2 (224pp s/c)

Price: AUD\$19.95; NZD\$24.95;

STG£8.99; USD\$21.00 (h/c)

Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric Bookshop, ph (02) 9212 2225; **NZ**—HarperCollins, ph (09) 443 9400; **UK**—Thorsons, ph 0181 741 7070; **USA**—HarperCollins, ph (212) 207 7000.

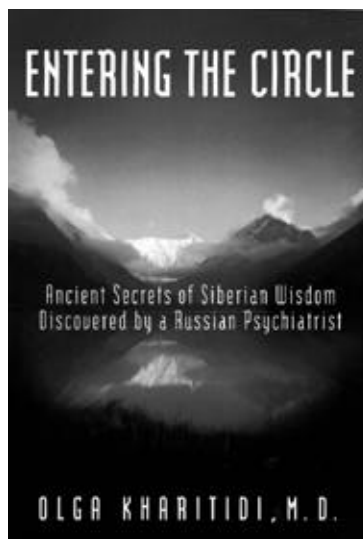
Entering the Circle is the inspiring account of a young psychiatrist's initiation into the spiritual practices and wisdom of an ages-old shamanic culture in the Altai Mountains of Siberia. Indeed, this remote, snowbound region could be the wellspring of all the mystical traditions—as author Olga Kharitidi suggests is being confirmed by new geological evidence and recent excavations of a tomb bearing mysterious glyphs and the well-preserved mummy of an ancient Siberian priestess.

Dr Kharitidi writes sympathetically about her routine as a psychiatrist in a mental hospital in Novosibirsk. Coming from a long line of Siberian doctors, yet aware at an early age of the existence of alternative realities, one day she decided to visit a remote village in the Altai Mountains to see shamanic healing and magic at first hand.

The experience was a turning point for her, for she learnt to connect with her real Self

and true potential through her Spirit Twin Healer. In time, Olga learnt to incorporate these teachings and subsequent shamanic visions into her life and the realm of modern psychiatry. She has become an extremely gifted healer of the mentally ill—one time effecting almost spontaneous remission in a supposedly 'hopeless' schizophrenic, just by saying the right words.

Olga continues her quest to access Siberian native wisdom and spread it to the world. Some of that Altai heritage is recorded for posterity on the companion CD (see Audio Reviews). Be warned: like Olga, you, too, could undergo a reality shift!



THE EAR AND LANGUAGE

by Alfred A. Tomatis

Published by Moulin Publishing (1996), Norval, Ontario, Canada

ISBN 0-9697079-8-3 (223pp s/c)

Price: AUD\$32.00 (NZ airmail add AUD\$7.00); STG£11.00; USD\$16.00 + USD\$4.00 p&h ; CAN\$20.95 + p&h

Available: **Aust**—The Australian Tomatis Method, PO Box 55, Gordon, NSW 2072, ph (02) 9418 4130, fax (02) 9498 3635; **UK**—The Tomatis Centre, Lewes, ph 01273 478666; **USA**—Sound Listening & Learning Center, Phoenix, ph (602) 381 0086; **Canada**—The Listening Centre, Toronto, ph (416) 588 4136.

"The voice can only emit what the ear can hear." This is the essence of what French physician, psychologist and educator Dr Alfred Tomatis observed over 50 years ago, and has since become known as the Tomatis Effect. He went on to refine his early findings and develop the multidisciplinary science of audio-psycho-phonology (APP), as well as a new technology with the Electronic Ear, and a new technique, the Tomatis

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Method—all of which have transformed our understanding of the ear-voice-emotion connection with the auditory system as the focal point.

This is the first English translation of Dr Tomatis' classic book, *The Ear and Language*, first published in 1963 and updated in 1991. It is a précis of his research, hypotheses and discoveries as well as a record of his reflections on humanity's place in the cosmos.

Aimed at the lay reader, the book covers the workings of language, audition, audio-vocal conditioning, laterality, the leading ear, body image and APP. The new Postscript summarises recent research and validates Tomatis' original hypothesis that the ear is the fundamental feature that makes we human beings the socially-aware, creative communicators that we are.

The Tomatis Method is a personal empowerment technique that is applicable in diverse areas: music and voice, speech and language, education, medicine and personal growth. It shows that if you can change your ears' ability to listen, you can also change how you speak and how you interact with yourself, with others and with the world.

REVELATIONS OF THE METATRON by 'Anonymus'

Published by Galde Press, Inc. (1995), Lakeville, MN, USA
ISBN 1-880090-21-X (213pp s/c)
Price: AUD\$30.00; NZD\$38.00;
STG£13.99; USD\$14.95 + USD\$3.00 p&h
Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric Bookshop, ph (02) 9212 2225; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—Gazelle Book Services, ph 01524 68765; **USA**—Galde Press, Inc., PO Box 460, Lakeville, MN 55044, ph (612) 891 5991, 1-800 777 3454, fax (612) 891 6091.

This is a strange tale that might well be true, but the story and evidence cannot be verified. In 1955, some unique writings were found within a mountain in South America (exactly where, is not divulged). Incredibly, these writings are purported to be the work of the Metatron, the legendary Angel of the Presence.

According to the accompanying diary of Gary Sornson, he and two other explorers, all skilled in ancient hieroglyphic and language systems, were led to a mountain where a secret entranceway was opened for them, revealing a chamber lined with golden, jewelled artefacts. The group then stumbled upon a vast, illuminated pyramid cave

and, within it, more than a thousand six-foot-tall, solid-gold pedestals, each bearing script.

Even considering their skills, the team had an easier job than expected in transcribing and translating the glyphs. (Alas, none of these is reproduced in this book.) The translations were passed down to Sornson's nephew Per, who in 1994 presented them to the anonymous narrator of this book to publish, in case he did not return from a trip in his uncle's footsteps. It's likely he met with his demise.

These *Revelations* have profound content and import for humanity, for they tell of the dawn of time, the creation, the first angels and the fallen ones, the formation of Earth, the evolution of man, the destruction of Atlantis and the Great Flood. They contain subtle variations from more familiar biblical versions, and are well worth studying despite the question marks over their source.

HORMONE HERESY: What Women Must Know About Their Hormones by Sherrill Sellman

Published by GetWell International (1996), Honolulu, Hawaii, USA
ISBN 0-646-29565-9 (189pp s/c)
Price: AUD\$19.95; NZD\$26.00;
STG£11.00

Available: **Australia**—NEXUS Magazine, ph (07) 5442 9280; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—NEXUS Office, ph 01342 322854.

Recognising the need for an easy-to-read guidebook about women's hormones, and inspired by the positive response to her articles in NEXUS (vol. 3, nos. 4 & 5), psychotherapist Sherrill Sellman has written *Hormone Heresy* to emphasise the basics that women must know about their hormones if they want to be in control of their health and power. Her coverage may be brief, but readers should make a point of consulting the many references she cites if they want to become better acquainted with the subject.

When Sherrill Sellman began investigating hormone replacement therapy in connection with her own pre-menopausal symptoms, she found that mainstream medical opinion was a mix of "myth, misinformation and propaganda"—as seen in the claim that menopausal women are oestrogen-deficient when, in fact, the opposite is true. As she discovered, the missing link in hormonal balance is natural progesterone, yet doctors continue to prescribe synthetic hormones (as used in HRT and the Pill) when the evidence links them to many diseases including cancers, fibroids, osteoporosis and cardiovascular disease as well as large-scale environmental disruption.



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In *Hormone Heresy*, Sherrill exposes the flaws in medical thinking and practice regarding women's hormones. She argues strongly against synthetic hormones and in favour a safe alternative in natural progesterone. Used in conjunction with other simple, self-help techniques, she recommends it for helping restore hormonal balance—and reclaiming personal power in the process.

TREASON: THE NEW WORLD ORDER by Gurudas

Published by Cassandra Press, Inc.
(1996), San Rafael, CA, USA
ISBN 0-945946-14-7 (312pp s/c)
Price: AUD\$26.00; NZD\$32.00;
STG£13.50; USD\$14.95 + p&h

Available: **Aust**—NEXUS Magazine, ph (07) 5442 9280; **NZ**—NEXUS Office, ph (09) 416 7320; **UK**—NEXUS Office, ph 01342 322854; **USA**—Cassandra Press, Inc., PO Box 150868, San Rafael, CA 94915, ph (415) 382 8507

Author Gurudas, well known for years in 'new age' health circles, expanded his horizons into conspiracy politics after observing how the US Food & Drug Administration was abusing the health freedoms of Americans. Gurudas saw this as a microcosm of an environment of control that has crept into all areas of our lives, and it was not enough for him to sit idly by, denying the existence of this evil, materialistic force.

Treason: The New World Order is Gurudas' valiant attempt to explain how a few key players have gradually moved the US and the world towards a corporate police state. Coming from the perspective that the US Constitution should be protected in order to prevent a secret government takeover, Gurudas analyses why and how our civil freedoms are being eroded. He highlights the dangers of the moneyed elite; corporate

support of both right and left; judicial tyranny; the Catholic Church's role in the NWO; the phoney War on Drugs; the rise of the national security state; martial law and surveillance; COINTELPRO vs patriots and ecologists; 'accidental' death as a political weapon; the people as experimental guinea pigs; and other matters of great concern.

Unlike most conspiracy writers, however, Gurudas advocates sending light and love to those who would promote a new world order and curb our freedoms, though he acknowledges that such positive actions may not be enough! A balanced, well-referenced view of the machinations of secret government.

COSMIC VOYAGE

by Courtney Brown, Ph.D.

Published by Dutton (1996), NY, USA
ISBN 0-525-94098-7 (275pp h/c)
Price: AUD\$35.00; NZD\$44.95;
USD\$23.95; CAN\$33.50

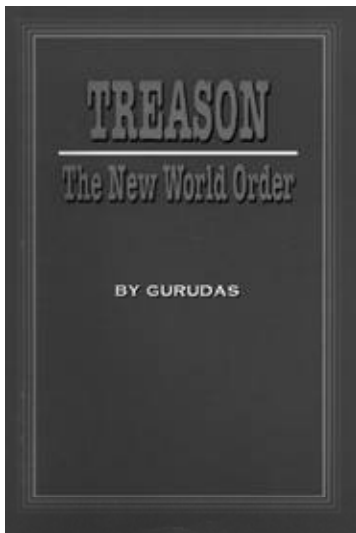
Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric B/shop, ph (02) 9212 2225; **NZ**—Penguin Books; **USA**—Penguin Dutton; **Canada**—Dist. by McClelland & Stewart Inc.

Cosmic Voyage is another controversial exposé that has provoked military/intelligence ire by disclosing the scientific remote-viewing (SRV) techniques used in their top-secret research projects. Moreover, it has upset establishment scientists who reject the notion that SRV conforms to the rigours of scientific method; and it has confounded sceptics who are at odds with its description of two ET civilisations with a long history of involvement with planet Earth and humanity. But it sure is exciting the public!

Author Dr Courtney Brown, a Georgia-based political/social scientist, was trained in SRV by a former US Army remote viewer and then teamed up with ex-operatives setting their sights on otherworldly targets: ETs and UFOs. Dr Brown goes to pains to point out that his techniques adhere to strict protocols to keep a check on interference from 'analytic overlay' and even interdimensional intruders, but that his results can be corroborated by other trained RV operators.

Dr Brown claims that his 'cosmic voyage' has taken him to the past and the future; to Mars, a present-day underground Martian base in New Mexico, and the demise of the 1993 Mars *Observer*; to a subspace realm inhabited by "the Midwayers"; and even to Jesus, Buddha and the Galactic Federation! Seeing humanity and Earth in a precarious position, he now believes it's time we brushed up our galactic diplomatic skills.

Whether or not you take Dr Brown's cosmic revelations on board, they do make for fascinating reading and open up new areas of exploration for truth seekers out there.



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THE STONE OF THE PLOUGH: The Search for the Secret of Giza by Ann Walker

Publ. by Element Books Ltd (1997), UK
ISBN 1-85230-937-7 (316pp h/c)
Price: AUD\$51.00; NZD\$39.95;
STG£16.99; USD\$32.45 + \$3.95 p&h
Available: **Aust**—Cameron Books,
ph/fax (047) 58 7676; Sydney Esoteric
Bookshop, ph (02) 9212 2225; **NZ**—
Dist. by Penguin Books; **UK**—Element
Books, ph 0747 851331; **USA**—Books
Britain, ph (212) 749 4713.

Since 1979, celebrated English clairvoyant/medium Ann Walker has been in direct communication with a spirit guide, White Arrow, who ultimately set her on a quest to decipher the meaning of a collection of ancient symbols and drawings he gave her.

That journey was a jolt for this self-described "ordinary housewife and mother". She writes that she regularly went on board a spacecraft where she met with White Arrow and his alien companions. There she learnt of our planet's impending doom—that unless we stop rainforest destruction as a matter of urgency, the Earth is expected to move out of alignment and into the path of a cometary fragment in the year 2042!

White Arrow instructed Mrs Walker to travel to the US to obtain verification of his true identity from native elders in Montana and North Dakota. Her mission a success, White Arrow then persuaded her to travel to Egypt to find villagers near the Great Pyramid able to translate the bequeathed Egyptian demotic scripts (though why he didn't translate them himself is unclear!). After several visits, her task was complete.

The messages may have enormous implications for humanity, for they refer to the legendary Hall of Records and a mysterious Stone of the Plough—allegedly, a buried spacecraft from Ursa Major that crashed millions of years ago and is buried under the Sphinx and Great Pyramid at Giza! There are many more surprises in Ann Walker's account, and hopefully it won't be too long before we know the whole truth!

THE GOSFORD FILES: UFOs over the NSW Central Coast

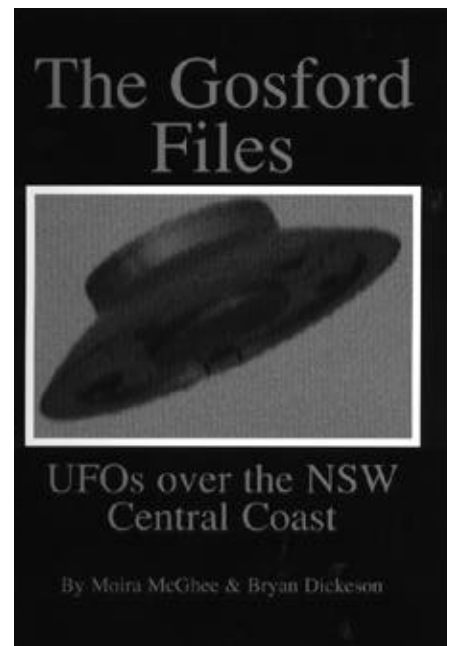
by Moira McGhee & Bryan Dickeson
Published by INUFOR (1996), Australia
ISBN 0-646-28829-6 (186pp s/c)
Price: AUD\$14.95 inc. p&h in Aust;
AUD\$17.95 overseas seammil
Available: **Australia**—Independent
Network of UFO Researchers, PO Box
783, Kogarah, NSW 2217, ph/fax +61
(0)2 9553 9406.

This book could have been written about any one of thousands of other communities, for the UFO experiences of the people of the Central Coast of New South Wales seem to be a microcosm of what's going on all over the world. Not even local newspapers give an indication of the true extent of the phenomenon, but its widespread nature strikes home when you see diverse accounts together in the one book—in this case, *The Gosford Files*, named for a major town in the region.

Seasoned UFO researchers Moira McGhee and Bryan Dickeson focused on the Central Coast because of its regular sightings reports over the years, but also because it went through a major UFO 'flap' during the 1996 new year period. Because of its topography, its vast system of lagoons and the proximity of an Air Force base and several power stations, the area is considered to have many purported UFO-attracting characteristics.

That new year, hundreds, if not thousands of locals and visitors saw a variety of unidentified disc-, triangle- and cigar-shaped craft, pulsating and glowing a range of colours and exhibiting erratic behaviour across the sky and even on the ground. Many people reported becoming ill upon being subjected to loud, humming sounds from above, and several had missing-time episodes and close encounters with aliens.

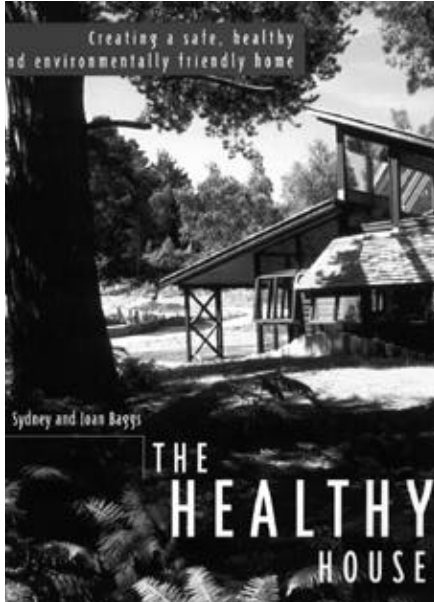
They can't all be crazy! Their stories, faithfully recorded and supported with illustrations and a small selection of photo and video evidence, deserve wider public exposure.





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THE HEALTHY HOUSE

by Sydney and Joan Baggs

Published by HarperCollins Publishers (1996), Australia

ISBN 0-7322-5753-0 (256pp l/f s/c)

Price: AUD\$39.95; NZD\$54.95;

STG£19.95; USD\$n/a

Available: **Aust**—Cameron Books, ph/fax (047) 58 7676; Sydney Esoteric Bookshop, ph (02) 9212 2225; **NZ**—HarperCollins, ph (09) 443 9401; **UK**—Thames & Hudson, ph 0171 636 5488; **USA**—HarperCollins, ph (212) 207 7000.

The Healthy House is a must-read book for anyone considering building or renovating a house, or seeking ways to improve the quality of their home environment.

Authors Sydney and Joan Baggs, a Sydney-based architecture-research team, have synthesised modern and age-old principles and practices into a holistic approach to creating a safe, healthy and environmentally friendly home or office.

Acknowledging that 'sick building syndrome' is at the root of many health problems, and guided by the principles of *feng shui* and building ecology, the authors have set out easy-to-follow guidelines for alleviating pollution problems in your home and living more harmoniously with nature. What they propose should be basic practice in the design/construction industry at large, and mainstream 'professionals' would do well to integrate this approach if they've not already done so.

The authors cover everything from site

selection, design considerations, construction, alternative energy strategies and sewage disposal to choosing healthy building materials (or counteracting unhealthy ones), briefing tradespeople, planting a low-allergy garden, coping with electromagnetic pollution, creating eco-communities, and much more.

This is an attractively presented book, full of practical pointers you may not have encountered before. You'll never again take your home environment for granted!

RESONANT FREQUENCY THERAPY: Building the Rife Beam Ray Device by James E. Bare, D.C.

Copyright by James E. Bare (1995-96)

Price: USD\$25.00 + USD\$5.00 in USA/Canada; foreign orders, add USD\$10.00

Available: **USA**—James Bare, 8005 Marble Ave, NE, Albuquerque, NM 87110, ph +1 (505) 268 4272, fax (505) 268 4064, e-mail: rifetech@rt66.com

In a clinical trial in California in 1934, Royal R. Rife successfully used his resonant frequency device to cure all 16 test patients of their cancers. The breakthrough immediately suppressed by medical authorities, the device slipped into obscurity, but some doctors continued to experiment in secret.

In the 1950s, one physician used his Rife tube to make very precise measurements of frequency settings for deactivating a host of pathogens. These controversial settings are reprinted in James Bare's construction manual, *Building the Rife Beam Ray Device*.

Bare's Rife-type device centres around a radio frequency-excited gas plasma tube unit which, unlike Rife's, is designed to work without any direct link with the test subject. Bare suggests that from this tube emanates a plasma wave that is more than just a combination of audio, radio and light waves and is able to enter easily into cellular structures.

James Bare insists that his device is only for experimental purposes in investigating micro-organisms and in limited tests on animals. It has huge potential in electromedicine, but controlled tests on human subjects are not (yet) permitted by the US Food & Drug Administration.

In any case, there are so many provisos and pitfalls to consider in constructing and operating one of these machines that this is not for rank amateurs; but it is relatively inexpensive to build, with approx. US\$900 worth of off-the-shelf components and a few modifications to the electronics. (An NTSC video of the device in action is also available.)

REVIEWS



AUDIO

Reviewed by Richard Giles

ENTERING THE CIRCLE

by Olga Kharitidi, M.D., & Jim Wilson

Produced by Jim Wilson for Triloka Records (1996), Santa Fe, NM, USA
Cat. no. G97-124-109-2 (51mins)
Price: AUD\$19.95, USD\$9.98 (cass.);
AUD\$29.95, USD\$13.98 (CD)
Available: **Australia**—Festival Records,
ph (02) 9660 4022; **USA**—Triloka
Records, ph (505) 820 2833.

Dr Olga Kharitidi is a Russian psychiatrist who used to work in a hospital for the mentally ill. She discovered by chance (or design?) a lineage of Siberian shamans from the Altai Mountains and spent time with them, learning their teachings. Travelling in the USA, she met Jim Wilson of Triloka Records who helped her put the teachings to music with native American and Tibetan instruments. *Entering the Circle* is an extraordinarily unusual album imbued with the words of Siberian shamanic wisdom. Quiet and powerful. (Also see Book Reviews.)

ONE WORLD

Compilation produced by Putumayo World Music (1996), NY, USA
Cat. no. PUTU126-2 (74mins)
Price: AUD\$19.95, USD\$9.98 (cass.);
AUD\$29.95, USD\$15.98 (CD)
Available: **Aust**—MRA Entertainment, ph
(07) 3849 6020; **USA**—Putumayo World
Music, ph (212) 995 9400.

World compilations are appearing with more frequency each year. This one rates among the best. Combining African with Celtic and contemporary with gypsy, this album has some of the greats. Tracks include Papa Wemba's African cry, Angelique Kidjo's funky dance, a Peter Gabriel duet with Youssou N'Dour, Gypsy Kings' flamenco rhythms, Bob Marley's classic reggae and Baka Beyond's Pygmy-Celtic mix. A superb collection.



THE VOICE OF VIOLET 19

by Cecilia

Produced by David Lord for Tolemac International (1996), London, UK
Cat. no. TM410 (56mins)
Price: AUD\$19.95, USD\$10.95 (cass.);
AUD\$29.95, USD\$18.95 (CD)
Available: **Aust**—Wild Eagle Trading, ph
(03) 9815 1162; **USA**—White Dove, ph
(505) 758 0500.

Two years ago a new feminine voice, Cecilia, came onto the New Age music scene with a whammo, inspiring all who heard her. Cecilia's debut album, *Voice of the Feminine Spirit*, sold over 100,000 copies in Australia. Now, here is her new album, with words by Stuart Wilde and production by David Lord (who worked on Tim Wheeler's magnificent *Heart Land*). Incredibly elevating music.

MOROCCO: CROSSROADS OF TIME

Compiled by Randall Barnwell & Bill Lawrence for Ellipsis Arts (1995), USA
Cat. no. CD4030 (58mins)
Price: AUD\$19.95, USD\$16.95 (cass.);
AUD\$29.95, USD\$19.95 (CD + book)
Available: **Aust**—New World
Productions, ph (07) 3367 0788; **USA**—
Ellipsis Arts, ph (516) 621 2727.

From a series of productions by Ellipsis Arts, each having a book accompanying the music, comes this album of Moroccan music. Recorded by Paul Bowles and collected by Randall Barnwell and Bill Lawrence, this is raw, vibrant dance and vocal music. It has samples of Berber and Ganawi music, plus traditional Arabic and Marrakesh mixtures. Fantastically joyful and energised, hand-clapping songs. A real collector's item.

ONE LOVE

by Eleven of Hearts

Produced by Dee Rogers & Macdonald Hamilton, Four Winds Music (1996), Chatswood, NSW, Australia
Cat. no. FWM.6524.2 (56mins)
Price: AUD\$19.95(cass), AUD\$29.95 (CD)
Available: **Aust**—Movieplay Australia,
ph (02) 9905 0199; **UK/Europe**—BSC
Music, Germany, ph +49 8178 1246.

Secret Dreams, the first release from the group Eleven of Hearts, was a beautiful weave of vocals, piano and strings. Their second, *One Love*, is a hauntingly lyrical blending of the ethereal vocals of Christene Carol and Katie Coogan-Mason with grand piano by Dee Rogers, plus flutes and strings. The sort of music that you can float with, it shows the wonderful range of talent for original and uplifting material in Australia. Music to move the soul up a few notches, it is thoroughly recommended.

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Endnotes

²⁶ Paranormal Management Systems has an information package available on remote viewing (price: STG£2 + SAE, or STG£5 outside UK), plus another information package on RV and UFOs (price: STG£3 + SAE, or STG£5 outside UK). Write to: PMS, PO Box 2749, Brighton, BN2 2DR, UK.

²⁷ Ostrander, Sheila, and Schroeder, Lynn, *Superlearning*, 1982.

²⁸ "Stephen Schwartz's Mobius Group of 1975 conducted research into psychic questing and remote viewing," according to Bob Rickard in "From Russia with Anxiety" (*Fortean Times*, no. 87, June 1996).

²⁹ (a) Visit Professor Jessica Utts' web site for details on the scientific verification of RV, and as a stop-off point for other RV sites and places of interest. Web site address: <http://www.jse.com>

Refer also to Dr Utts' report on US RV in the *Journal of Scientific Exploration* (Stanford, vol. 10, no. 1, pp. I-III).

(b) Beloff, John, "ESP Fact Sheet" (the RV work of the Society of Psychical Research), Psychology Department, University of Edinburgh, Scotland.

(c) Refer to the Internet for Dr Ray Hyman's recent rebuttal of RV.

³⁰ Forsyth, Richard, "Room with a Remote View", *Encounters*, no. 10, August 1996. This is an article written about the author. For an account of paranormal psycho-neuro-immunology, refer to author's new web site, <http://www.interquest.compulink.co.uk/pms/index.htm>, and NEXUS, vol. 3, no. 6.

³¹ Hadfield, Peter, "Go on, read my mind", *New*

Scientist, 16 December 1995.

³² (a) Keith, Jim (ed.), *Secret and Suppressed*, Feral House, Portland, Oregon, USA, 1993. Contains documentation on implantation of microelectronics in a victim's brain against his will. Also has an interesting chapter on RMCT by Anna Keeler.

(b) Constantine, Alex, *Psychic Dictatorship in the USA*, Feral House, Portland Oregon, USA, 1995. Contains a very good chapter on RMCT.

³³ This idea that the US military could use alien abductions to cover up military abductions for use in mind-control experiments, appeared in *UFO Reality*, no. 3, 1996, in an article on mind control by Jon King, the magazine's editor.

³⁴ A 1996 *New Scientist* article detailed how the low-frequency microwave technology scanners could see through objects, rather like X-rays. These devices were intended to be deployed at airports to look inside passengers' bodies for drugs. Devices such as these enable security personnel to look through the walls of a suspect's home and see that person walking around inside. They also enable masers to enter selected parts of the brain, as the scanner can target the masers accurately on any internal brain structure. Masers calibrated at this frequency would be useful for carrying ELF-modulated signals through the walls of a subversive's home, directly into his brain.

³⁵ Smith, Cyril W., and Best, Simon, *Electromagnetic Man*, Hilary Bacon, London, 1989, p. 228.

³⁶ Cohen, Philip, "How the brain minds its peas and bees", *New Scientist*, 24 February 1996. This article shows how advanced medical research is elucidating the electrochemical basis of neuronal activity with regard to language.

³⁷ Stewart, Ian, "Little Waves, Big Squeeze", *New Scientist*, 2 March 1996. This article looks at FBI research into wavelet analysis packages that enable information to be easily removed from a background of noise.

³⁸ Guyatt, David, "Some Aspects of Antipersonnel Electromagnetic Weapons" (paper prepared for ICRC Symposium for the medical profession).

About the Author:

Turan Rifat was born in Brighton in 1957. He has a university science degree and another in education. Whilst doing his Ph.D., the author decided he'd had enough of mechanistic science, so for the past 15 years he has been researching the paranormal. His research task took rather longer than imagined, and led to some unfortunate confrontations with 'evil' forces—MI5 being the least of these.

Recently, he set up Paranormal Management Systems (PMS), the only company in Europe with expertise in biophysical RMCT that can come close to what the Russians have developed and which outstrips the US knowledge base in the biophysical area. PMS evaluates this military-domain RMCT material and develops it in terms of its applications for business in enhancing profitability and performance.

Turan Rifat offers courses and consultancy in the RV/RI field. He is currently writing a book, *Remote Viewing: The Story of the Real X-Files*.

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Everyone is aware, of course, that these elements have industrial or military functions unrelated to the atom bomb, but Russia had a very critical interest in procuring A-bomb components from America. Red scientists are said to have been the first in Europe to announce the theory of nuclear fission. As America discovered at a cost of billions of dollars, it is a far cry from setting down speculations on paper to putting them in practice at the dimensions imposed by modern war. Thus the Kremlin was frantically inquisitive about large-scale production techniques developed by the Manhattan Project...

One ground for minimizing my evidence is a claim that Russia had abundant uranium of its own, in connection with massive radium deposits in the former area of Turkestan, the Kazakh Republic and the state of Tannu-Tuva, north of Mongolia. More than 30 years ago, it is said, Soviet physicists worked out the correct formula for separating uranium from radium. On the other hand, as atomic experts are fond of pointing out, "You can never have too much uranium."

If a blunder occurred, such objections proceed, it was not the shipment of minor quantities of uranium compounds to the Soviet Union, but the publication of Dr Smyth's book, which told not only how to make a nuclear bomb but how not to make one. The chief atomic authority of Norway, Gunnar Randers, is cited as having pronounced that the indiscretion of this publication saved Russia and every other country two years of research. According to Professor Szilard, "one half of the atomic bomb secret was given away when we used the bomb, and the other half when we published the Smyth report." After the espionage trials, however, one may ask whether the Smyth revelations were not more informative to the American public than to the Politburo...

In any event, it is heartening to know that, on the whole, our uranium embargo stood firm. Moscow was prevented from winning its grand objective of 17 tons, in contrast to the delivery of 15 tons of uranium chemicals to Great Britain which the Manhattan Project authorized. The steadfastness of the General Groves organization against Russia was the more admirable in that it was challenged by Mr Hopkins, with

the power of the White House behind him. After the Un-American Activities Committee closed its hearing on March 7, 1950, I was examined searchingly by Government investigators. They tried to lure me into admitting a possibility, however faint, that the person to whom I spoke might have been Edward R. Stettinius, Jr, who had died five months earlier on October 11, 1949.

My answer was that never once, during my two years at Newark and Great Falls, did I hear so much as a mention of Stettinius, though reference to Hopkins was daily on the lips of the Russians.

It is common knowledge that on August 28, 1941, Stettinius succeeded Hopkins as titular chief of Lend-Lease, and held the post until September 25, 1943, when the agency was merged with kindred bodies into the Foreign Economic Administration, with Leo A. Crowley as Administrator.

But even the official biographer of Mr Hopkins does not hesitate to write:

"Hopkins knew that policy governing Lend-Lease would still be made in the White House and that the President would continue to delegate most of the responsibility to him. Stettinius was his friend and

they could work together—and that was that."⁹

Another effort to clear Hopkins was based on the supposition that he acted in ignorance of what it was all about. Even if he helped the Russians to get A-bomb materials, the implication ran, it was the unsuspecting tool of Soviet cunning.

The Hopkins papers for Mr Sherwood's book were organized by Hopkins' longtime friend, Sidney Hyman. A fortnight after my first broadcast he was quoted as affirming that, until Hiroshima, Harry Hopkins had not "the faintest understanding of the Manhattan Project" and "didn't know the difference between uranium and geranium".

On the contrary, Harry Hopkins was one of the first men anywhere to know about the atom bomb. Dr Vannevar Bush chose Hopkins as his intermediary for presenting to Mr Roosevelt *the idea of the atom bomb*. It was in consultation with Hopkins that Dr Bush drafted the letter, for Mr Roosevelt's signature, which launched the A-bomb operation on June 14, 1941! Where do we learn this? In the official biography by Mr Sherwood, on pages 154 and 155. Finally, on page 704 we are told that the head of a

state, Winston Churchill, "was conducting this correspondence on the atomic project with Hopkins rather than with the President, and that he continued to do so for many months thereafter".

A witness on the topic, General Groves testified that to the best of his recollection and belief he never met Harry Hopkins, talked with him on the telephone, or exchanged letters or dealt with anyone claiming to represent him. But the General thought it incumbent to remark, "I do know, of course, that Mr Hopkins knew about this project. I know that."¹⁰

An early symptom of White House obsession for 'reassuring Stalin' has been described by General Deane. In letters to American war agencies, dated March 7, 1942, Mr Roosevelt ordered that preferential position, in the matter of munitions, should be given to the Soviet Union over all other Allies and even the armed forces of the United States. Then and there, decided the former chief of the US Military Mission to Moscow, was "the beginning of a policy of appeasement of Russia from which we have never recovered and from which we are still suffering"¹¹...

Endnotes

- ¹ Stimson, Henry L. and Bundy, McGeorge. *On Active Service in Peace and War*, Harper, 1947.
- ² "Hearings Regarding Shipments of Atomic Materials to the Soviet Union during World War II", Testimony of General Groves, December 7, 1949, House of Representatives Committee on Un-American Activities, US Government Printing Office, USA, p. 941.
- ³ *ibid.*, p. 945.
- ⁴ *ibid.*, p. 900.
- ⁵ *ibid.*, p. 948.
- ⁶ *ibid.*, p. 947.
- ⁷ "Hearings...", Testimony of Hermann H. Rosenberg, January 24, 1950, p. 1035.
- ⁸ "Hearings...", General Groves, p. 954.
- ⁹ Sherwood, Robert E., *Roosevelt and Hopkins: An Intimate History*, Harper, 1948, p. 560.
- ¹⁰ "Hearings...", General Groves, p. 947.
- ¹¹ Deane, John R., *The Strange Alliance*, Viking, 1947, p. 89.

Copies of the book, *From Major Jordan's Diaries*, are available from NEXUS Magazine.

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Qadhafi was, as Les Coleman said, "an easy hit".

Perhaps more telling than anything else, British support for the US anti-Libya 'campaign' clearly demonstrates the moral and ethical bankruptcy of the British political process. That those in power manipulated the British judicial system and continue to lie to the families of the Lockerbie victims is sinister enough. That they not only tolerated but connived in the murder of an innocent woman police officer—to further American political designs—says more than any party political manifesto could begin to utter. All power corrupts, but the continued exercise of raw, unadulterated power of this magnitude is the very antithesis of a participatory democracy.

In researching this article, I spoke with many different individuals. Some agreed to speak on the record, whilst others requested anonymity. One well-placed and knowledgeable source summed up the situation with these words: "There is no democracy. There is no free press." That source remains a leading Member of Parliament.

Endnotes

¹ Goddard, Donald, with Coleman, Lester K., *Trail of the Octopus: From Beirut to Lockerbie—Inside the DIA*, Bloomsbury, UK, 1993.

² This is not really surprising when you consider what Iran has been involved with in 1996: the bombing of TWA 800; the deadly explosion that rocked the US barracks in Dhahran, Saudi Arabia; and the fatal stabbing of a US diplomat. (Source: *Defence & Foreign Affairs Strategic Policy*, UK, August 1996.)

³ See Bob Woodward's *Veil: The Secret Wars of the CIA, 1981-87* (Headline Books, London, 1987) for comprehensive background on Bill Casey and his role in Libyan destabilisation. Casey died in 1987.

⁴ Information provided by the Institute of Petroleum. The breakdown is as follows: Italy, 42.2%; Germany, 21%; Spain, 11%; France, 3.4%. "Others" account for 22.3%.

⁵ This was the location of the 1994 helicopter 'crash'—alleged to have been an accident—that killed a fistful of high-ranking Military, Intelligence, Special Branch and Police officers. Officially said to be over-flying the Mull of Kintyre en route to Aberdeen, the chopper's destination was actually the Machrihanish Special Forces base, home of US Seals. Never satisfactorily answered was why so many important officers flouted standing orders by travelling together. All the deceased were IRA anti-terrorist spe-

cialists. Within a year, the much-touted US-sponsored "IRA Peace Process" was announced. A Special Forces source told me a week after the 'accident' that there was something about the crash that didn't stack up.

About the Author:

David Guyatt was born and educated in Hampshire, England. His career in the stock-broking, investment and banking industries spanned 28 years, the last 12 of which he spent as a director and treasurer of a major British bank. There he gained insight into the world of international weapons financing and was familiar with all aspects of international capital, foreign exchange and money markets, with global trade finance his specialisation.

For the last seven years, David has pursued a career as a freelance writer/researcher, contributing to a number of screenplays, novels, documentaries and feature articles. He is currently researching high-tech, anti-personnel, electromagnetic weapons systems and their focus within military/intelligence 'black' mind-control/behaviour-modification programmes.

His other in-depth research project at present centres on the structure, power and hidden influence of elitist groups and interlinking tax-exempt foundations, including RIIA (Chatham House), the Council on Foreign Relations, Trilateralists, Bilderbergers, the shadowy *Cercle*, the Rockefellers, Brothers Fund, Ford, Carnegie, Hoover, IMF, the World Bank, *ad nauseam*...

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leaps and be aware of where you have gone. You will be very surprised, I think. It is a place not far from there that you will find us.

"We basically come from your future. It does not matter if it is six minutes into your future or six years; if you can get to one, you can get to the other. But, for us, it is not as simple as that, for we also come from another dimension; not quite the one you will shift into, but close. So we are what you would call dimensional time-travellers. Sounds like a good movie, does it not? Your Mr Spielberg would love it!"

I had to laugh at that one.

"We—myself and others like me—are in fact a whole new race, or, to be more accurate, a newly reconstituted race. Further modifications are still required before we can achieve our goals as a people. This is one of the reasons for our travel to your time zone, and, indeed, the reason for others being here who are also experimenting with their biological make-up, although they have far different goals behind their experimentation than we do.

"The reason behind so many abductions

occurring on your planet over the last few years of your time is that this is the last chance for our race—and other races of ETs with problems similar to ours—to interact with you as a race before you change to a form that will no longer be of use to us. Yes, it is that close! My own surrogate mother was of your time and race..."

"We could go further back in time, but it is *this now* that we need. I will not complicate matters by trying to explain that; we would be here for many more days. My race still has a problem to overcome. We must breed a race with stronger limbs and oxygen-processing units."

"Lungs?" I enquired again.

"Yes. We have been using a mixture of your species' DNA and chromosomes, along with our own. Our blood used to be very similar to yours—and still is, with a little modification—although we really only have one type as you would know it; well, two, but they are both very much like your A-negative. We can modify most things, but what it adds up to is that we are not going to go looking for problems—we already have enough of them.

"We have approximately only five per

cent of your male population to work with, notwithstanding health, age, etc. There is a very special, shall I say, 'X-factor' which must be brought into this equation, which in fact brings only about one per cent of this already small group into our calculations—that is, if we should require a male to help us. The fact that we are not of the same vibrational plane is the major problem. This is part of that X-factor, and is related to health and disease resistance, biological balance in relation to birth location, previous adaptability tests, and so on and so on.

"I cannot begin to explain the complications we have had. It has stretched our technology to its limits and beyond. The end result is what you see before you now. I may look good to you, but I still could not live on your planet without our technology to help me constantly. The bottom line is that the process has been too slow, and up to now has not done the job. At the present rate, it may take more time than we have to spare on our crippled planet! We now need to start taking some risks to speed up the process."

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"What kind of risks?" I asked.

"Well, up until now we have been more concerned with preserving our mind-generated energy distribution abilities—which I don't expect you to comprehend just yet—but now we need to concentrate on the physical aspects, the strength and endurance, even if we lose a little of the other abilities."

"Become more like us?" I chimed in again.

"Yes, we must," Zeena replied. "We already have, as you noticed earlier," she said, with what almost appeared to be a smile on her face. This was the first hint of an emotion I had seen.

"Now there needs to be a step—a big one—even further down that road. There is a chance for me to become part of that step," she added. "That is why I wish to ask you more questions about *your* breeding processes; procreation—would that be a better word for it?"

"You would be surprised at some of the words we use for it," I replied. "Even *I* don't know where some of them come from."

"I understand it is most primitive and basic in its natural form. It is possible that I may be able to be fertilised and to carry the foetus almost full-term within me. That may not sound much to you, but no female of our race has carried a child within her for many hundreds of thousands of years. The artificial methods we have been using are too slow and hard to change. They may even be impossible to use if we settle on a planet like your Earth.

"I have been designed to take the place of what you would call a synthetic birth process. There has been quite some progress just lately. Even a hundred years ago, your time, one of our type could not have interacted with your species on this level. That is how much we have evolved in different directions since the early colonists left your planet. Now we find it necessary to take a step in another direction."

I noted how she diplomatically skirted the suggestion that they might be going backwards on the evolutionary tree. I could not really understand what knowledge she could want from me, and I doubted there was anything I knew that she did not already know...

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