

The Institute for Neuroscience and  
Consciousness Studies (INACS)

Presents:

CONSCIOUSNESS AND  
THE LARGER REALITY

THE INSIDE STORY

Thomas Campbell

Nov 8, 2008

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# MY BIG TOE

**AWAKENING ✦ DISCOVERY**  
**INNER WORKINGS**

The Complete My Big TOE Trilogy  
Unifying Philosophy, Physics, and Metaphysics

[www.my-big-toe.com](http://www.my-big-toe.com)

Consciousness and the  
Larger Reality – The  
Inside Story

Austin Workshop

Nov 8 2008

[www.MyBigTOE.com](http://www.MyBigTOE.com)

My Big TOE (MBT) Trilogy

Presentation Slides are  
Available at No Cost

- ▣ Video Available
  - MBT Website
  - YouTube, Others
  - INACS

# Who is Tom Campbell?

What do I do in this reality frame –A Physicist

- ▣ College -- Physics and Math
- ▣ Grad -- Physicist (experimental nuclear)
- ▣ Technical intelligence (Government)
  - Physics, EE, Electronic Systems -- computer simulation
- ▣ National Missile Defense (Contractor)
  - Technology Development
    - ▣ Sensor Systems -- Radar
    - ▣ Models and simulation
    - ▣ Software Engineering
    - ▣ Program management
  - Systems Engineering
    - ▣ Integration
    - ▣ vulnerability
    - ▣ Risk analysis
- ▣ NASA
  - Risk analysis
    - ▣ Physics models
    - ▣ System behavior prediction

# How did a nice physicist like me end up...

The consciousness research side..

- ▣ Connections to Bob Monroe
  - Setting up the lab
  - Learning about Altered States
  - Mastering OOB
  - Doing experiments
    - ▣ Joint travel, communications, remote viewing, healing, death and dying
  - Teaching others
- ▣ Moving On
  - learning accelerates, research never ends
  - Continuously developing the model and maintaining scientific integrity
- ▣ 35 years later -- the publication of My Big TOE
  - An inside job
  - First hand experience
  - Maintain scientific integrity



# The Fundamentals of Reality

# Unified Field Theory

## Albert Einstein – Unified Field Theory

- ▣ “If we think of the field as being removed, there is no ‘space’ which remains, since **space does not have an independent existence.**” – *Albert Einstein*
- ▣ “Reality is merely an illusion, albeit a very persistent one.” – *Albert Einstein*
- ▣ “Hence it is clear that **the space of physics is not, in the last analysis, anything given in nature or independent of human thought.** It is a function of our conceptual scheme [mind]. Space as conceived by Newton proved to be an illusion, although for practical purposes a very fruitful illusion – *Albert Einstein*

# Unified Field Theory<sub>2</sub>

## Physics: David Bohm

- ▣ “To meet the challenge before us our notions of cosmology and of the general nature of reality must have room in them to permit a consistent account of consciousness. Vice versa, **our notions of consciousness must have room in them to understand what it means for its content to be 'reality as a whole.'** The two sets of notions together should then be such as to allow for an understanding as to how consciousness and reality are related.”  
- - *David Bohm from the introduction to Wholeness and the Implicate Order*
- ▣ **"One has to find a possibility to avoid the continuum (together with space and time) altogether. But I have not the slightest idea what kind of elementary concepts could be used in such a theory."** – *Letter from Albert Einstein to David Bohm October 28, 1954*

# Quantum Mechanics

## Physics: Wigner

- ▣ “It will remain remarkable, in what ever way our future concepts may develop, that the very study of the external world led to **the scientific conclusion that the content of the consciousness is the ultimate universal reality.**” -- Eugene P. Wigner a Nobel Prize winner and one of the leading physicists of the twentieth century

## Summary:

- Time and space are not continuous
- Physical reality is an illusion and does not exist independently – it is a mental construct
- Consciousness is somehow at the root of reality
- The relationship between physical reality and consciousness is fundamental but unknown
  - They knew the traditional fundamental assumptions were wrong, but they didn't know what to do about it



# The Problem

Why did Einstein and Bohm et.al. get stuck? Three beliefs locked the door:

- They were looking only for continuous solutions. Reality, space and time, comes in discrete units (digital)– digital physics
- They expected physical reality to be fundamental not derivative. Objective physical reality constitutes a subset of a larger consciousness system and is a virtual digital reality
- They were looking for an objective solution. Consciousness is subjective – an individual experience
  - Consciousness is fundamentally personal
    - Must be experienced from the inside, one learns little of its fundamental nature by probing from the outside

# Contemporary Scientific Big Pictures

- ▣ Edward Fredkin – Digital Physics -- 1992
  - the entire history of our universe is computable
  - Reality is:
    - ▣ A computer itself.
    - ▣ Implemented on a computer (a simulation)
    - ▣ Essentially digital.
    - ▣ Essentially informational
  - The computation must be in “other” outside of physical reality
- ▣ Nick Bostrom - Now at Oxford
  - *Are You Living In A Computer Simulation?* One must be true:
    - ▣ It's impossible
    - ▣ If not impossible, then unlikely
    - ▣ If not unlikely, then Almost all entities with our general set of experiences are most likely living in a simulation
- ▣ Brian Whitworth – **The Physical World as a Virtual Reality**
  - the universe is a virtual reality created by information processing, and furthermore this concept is supported by findings of modern physics about the physical world.

# Consciousness and Reality

- ▣ Consciousness is the fundamental reality
- ▣ The larger consciousness reality is a digital system
  - At the most fundamental level:
    - ▣ Consciousness is information (light - neurons -- data)
    - ▣ Information is bits
    - ▣ Bits are binary
  - Information is nonphysical and subjective, thus consciousness is nonphysical and subjective
    - ▣ Information is the meaning, the content, the message, not the objective media or code symbols
    - ▣ To get the meaning (grasp the information) requires a consciousness
    - ▣ understanding requires a subjective interpretation of the data relative to personal experience

# Information and Evolution

- ▣ Information in a digital system is represented by organized bits
- ▣ Information systems have entropy
  - Lower entropy implies :
    - ▣ greater level of organization, less randomness (noise)
    - ▣ More energy available to do work (greater potential to affect something else) -- (e.g., Automobile parts)
- ▣ Systems evolve to be more successful within their environments – evolve, stasis, de-evolve
- ▣ Large, complex (information) systems evolve by lowering their entropy (economy, technology)
- ▣ Consciousness is a self-aware, self-modifying system evolving toward lower entropy states

# Attributes of Consciousness

- ▣ In real, finite, large, complex, self modifying systems, stasis is unstable – change: evolve or de-evolve
- ▣ Individual consciousness evolves toward lower entropy, higher quality, more spiritual states
  - Love is the nature of a low entropy consciousness
- ▣ Attributes of consciousness: sentient, self-aware, able to learn – i.e., its alive!
  - Input (experience)
  - Memory (data storage)
  - Processing (compare/assess) experiences
  - Purpose -- evolutionary imperative (evolve or die)
  - Self modifying
- ▣ Identical attributes of that first living biological cell





# Summary

- ▣ Consciousness is best modeled as a superset -- a self-modifying digital information system capable of computing virtual realities
- ▣ The larger consciousness system evolves by lowering the entropy of the system.
- ▣ It lowers the entropy of the system by organizing the bits at its disposal into a more profitable configuration.
- ▣ Content creation and reorganization opportunities are generated by using conscious intent to apply free will choice to incoming experience data
- ▣ Feedback of the results of previous choice allow us to modify future choice (free will)



# Generating Experience

## Individual Existence And Purpose

- ▣ Because experience is the generator of input, consciousness facilitates its own evolution by creating many smaller units of consciousness and setting them loose to evolve (lower their entropy) by interacting with free will.
  - Purpose and the positive direction of that purpose (evolution) is thus defined
    - ▣ Positive vs. negative, good vs. bad, evolution/devolution are defined – morality, spiritual growth, love are all defined as measurable quantities in terms of entropy

# Physical Reality

- ▣ Experience requires interaction. To make that interaction more effective a simpler constrained environment is needed – our local physical reality is an elementary school – a virtual reality learning lab for individuated units of budding consciousness.
- ▣ Physical reality is a digitally based virtual reality where interactions are constrained according to a given rule-set –local physics
- ▣ Next Level of relativity: there is no absolute or fundamental reality frame within the system.

# Multiple Virtual Reality

- Multiple data streams, Multiple VRs
  - More constrained
  - Less constrained
  - There is no fundamental reality frame – one may Assume everything is physical, or equivalently, everything is nonphysical – a matter of perspective
- Switching data streams -- Hacking the system
- Altered states of consciousness
  - OOBE – paranormal experiences
  - Interaction between VRs – healing, remote viewing, etc

# Logical Implications

## Reality Frames Past and Future

- ▣ What about time and space? Can we visit the past or the future and interact with it?
  - Yes to both, but not as you suspect.
  - The probable future turns into the present as free will choices are made then exits as the actualized past (our local history thread).
    - ▣ Probable future -- **prob. model / Everything that could happen**
    - ▣ **The present moment (free will choice) is where all the action is.**
    - ▣ Actualized Past -- **prob. model / Everything that did happen**
    - ▣ Non-actualized past -- **prob. model / Everything that could have happened but didn't** -- -- many worlds (parallel universes)
- ▣ Future exists in probability and remains that way (un-rendered) until some player requires the data i.e., makes a measurement -- Basis of Quantum Mechanics



# Summary and Results

## Summary:

- ▣ Modeling consciousness as a self-modifying digital information system that evolves toward states of lower entropy
- ▣ Physical reality is a virtual reality – a subset of the larger consciousness system designed to help budding individuated units of consciousness (called an entity) evolve (lower their entropy) through experience/interaction

## Result:

- ▣ That physics and metaphysics become parts of one logical theory and are thus unified. Eastern and Western philosophy and theology have been Integrated with science.
- ▣ That Love and spirituality are both defined in terms of entropy – a measurable quantity -- i.e., more suitable to ways of physics
- ▣ That normal and paranormal are Unified as ordinary artifacts of interaction within (normal) and between (paranormal) reality frame perspectives of the larger reality system.
- ▣ That we have derived the fundamental purpose of existence in general and our existence in particular – to evolve toward lower entropy states
- ▣ that time and Quantum Mechanics have been derived from fundamental principles

# Additional Results

- ▣ Lowering entropy increases the energy/power/information available to the evolving entity.
- ▣ Lowering entropy, spiritual growth, increasing the quality of consciousness, evolving one's consciousness, and growing up in the Big Picture are all equivalent expressions.
- ▣ Love is defined as the fundamental expression of low entropy consciousness.
- ▣ The larger consciousness system is an aware evolving system. It is real and therefore finite.
- ▣ We are an individuated unit of consciousness, a chip off the Old Block (larger system)-- one with All That Is
- ▣ All reality frames and everything contained in them are a part of the same consciousness system – all are connected
- ▣ What is the difference between physical and nonphysical reality frames? -- only the observer's perspective

# Austin Workshop –Agenda & Schedule

- ▣ 8:30am to 12:00 –**The Fundamentals of Reality**  
(Consciousness, and the Nature of Existence – The Physics of Metaphysics )
- ▣ 1:30 pm to 3:00pm – **Experiencing The Larger Reality**
- ▣ Metaphors and symbols -- OOBIE, Lucid Dreams, Remote Viewing, Precognitive Dreams, Parallel Realities, Communication with Non-Physical beings – Psychotropic Drugs, Experiencing the Past and Future, etc.

# Austin Workshop –Agenda & Schedule

- ▣ 3:00 to 5:00 – *Accessing the larger reality*
  - *How to Gain Personal Experience In Reality Frames Other Than This One*
  - Beliefs and Expectations -- Eliminating what is holding you back -- Out of Body/Out of Mind, Making Contact, Dealing with Fear and Negative Beings– Staying Balanced – Future Events and fear. Healing Self and Others. Interfering with Other's Free Will. Dealing with an Obsessive Connection to (perspective of) PMR, and Being a Good Citizen of the Larger Reality

# What Now?

## Break Through or Delusion?

- ▣ Does this guy know what he is talking about?
- ▣ Or Does he just think he knows?
- ▣ Are his experiences real?
- ▣ Or does he just think they are real?
- ▣ Unless you have extensive experience with the larger consciousness system, you must have this question
- ▣ There is strong consistency among those of us who do have that experience – 4000 years ago to now – 600 BC Lao Tsu wrote the Tao Te Ching.
- ▣ These concepts of reality are not new – that they are logically derived from first principles in the language of science is new
- ▣ What to do about it
  - Get involved – go find out
  - This is really about YOUR big TOE
  - FIND OUT!