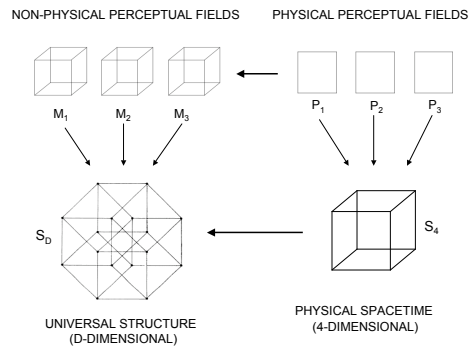


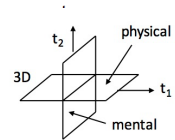
## \* Step 3

Space required to accommodate mental experiences must be a reality structure of more than four dimensions. This "Universal Structure" is **higher-dimensional information space** which reconciles our different experiences of the world. It has a hierarchical structure and incorporates physical space (past and future), as well as non-physical parts accessed only by mind.



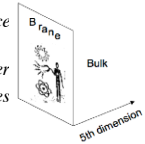
## \* Step 4

To accommodate the experience of time, memories, conscious intervention in the 4D structure and quantum potentialities, physical reality must be a **5-dimensional structure**, with the 5<sup>th</sup> dimension corresponding to mental time.



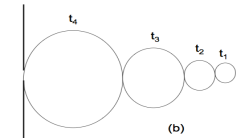
## \* Step 5

Universal Structure is identified with the higher-dimensional space invoked by Kaluza-Klein paradigm. In particular, with Randall-Sundrum model, in which 4-dimensional **brane** embedded in higher dimensional **bulk**. This leads to "extended physics" which describes both standard physics and mental interactions.



## \* Step 6

Extra dimensions form a hierarchy of times compactified on different scales and correspond to hierarchy of specious presents.



## TABLE OF MENTAL SPACES

## NORMAL

- (1) *Phenomenal*. Generated by perception of physical space via sensors.
- (2) *Memory*. Replay of images experienced through sensors in the past.
- (3) *Visualisation*. Generated/controlled by imagination and creativity.
- (4) *Dream space*. Like memory/visualisation space plus other elements.

## PARANORMAL

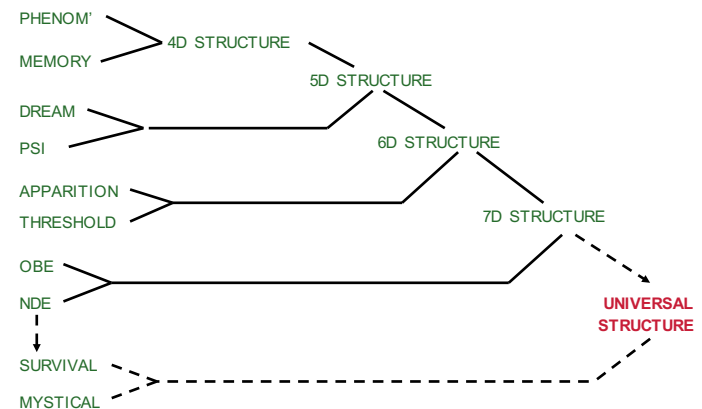
- (5) *Psi*. Involves direct interaction between mental and physical space.
- (6) *Apparition*. Different from physical space but aspects of externality.
- (7) *Threshold*. Pseudo-physical experiences on border of sleep/waking.

## SPIRITUAL

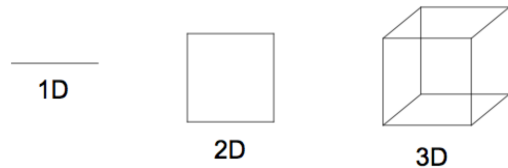
- (8) *OBE*. Subtly different from physical space, changed by imagination.
- (9) *NDE*. Relates to OBE space but other spatial experiences involved.
- (10) *Survival*. Where 'soul' dwells after death or between incarnations.
- (11) *Mystical*. Various extrovertive experiences plus 'higher planes'.

"A proposed new paradigm of matter, mind and spirit", SMN Review (2010)

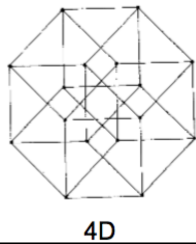
## UNIFICATION OF MENTAL SPACES



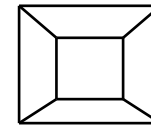
## WHAT IS MEANT BY DIMENSIONALITY?



Newtonian picture assumes absolute 3D space (and time)



hypercube

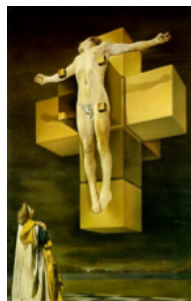
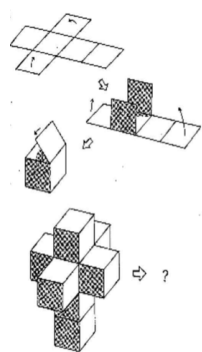


Cube as square in square



Hypercube as cube in cube

Charles Hinton



Christus Hypercubus  
Salvador Dalí

## HIGHER DIMENSIONS IN METAPHYSICS/PARAPHYSICS

Edwin Abbott "Flatland" (1884)



Fig. 15. Sphere thief from the most dimension.

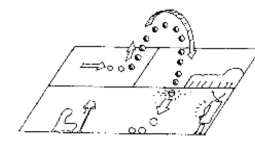


Fig. 88. Where the balls went to Piccadilly.



Fig. 49. A Square sunder over.

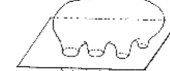
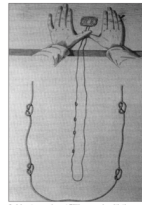


Fig. 61. The One and the Many.

Johann Zollner (1878)



"Transcendental Physics"  
connects 4<sup>th</sup> dimension with  
spiritualistic phenomena



Dr. A. Zollner's experiment. Zollner made with the American medium Henry Slade. The ends of the cord were sealed together, yet Slade's "spirit" tied several knots in the cord. To Zollner (1888), it proved the reality of a fourth space dimension.

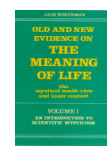
A.Schofield "Another World" (1888): God and spirits in 4<sup>th</sup> dim.

Oscar Wilde "The Canterville Ghost" (1891): lampooned 4<sup>th</sup> dim

Arthur Willink "The World of the Unseen " (1893): God in infinite-dimensional space.

H.G.Wells "Time Machine" (1894): time as 4<sup>th</sup> dimension

Einstein "Special relativity" (1905): time as 4<sup>th</sup> dimension



P.D.Ouspensky (1908) "The 4<sup>th</sup> Dimension" links to mystical states

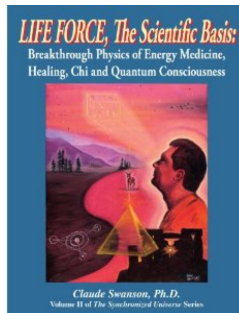
Whateley Carington (1926) "A Theory of the Mechanism of Survival: The Fourth Dimension and its Applications"

Price (1955) proposes physical events and dream events exist in different spacetimes

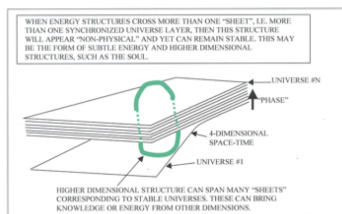
Broad (1953) merges dream and phenomenal spaces into a single space of more than three dimensions in which sensations of all kinds exist

Whiteman (1967) proposes hierarchy of higher dimensional spaces as arena for mystical experiences

CLAUDE SWANSON explains everything in 500 pages!



**SYNCHRONIZED UNIVERSE  
PRINCIPLE LEADS TO PARALLEL  
UNIVERSES, HIGHER DIMENSIONS  
AND EXPLAINS SUBTLE ENERGY**



William Tiller (1993)

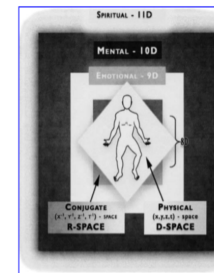


FIG. 2. A visualization of dual four-space frames embedded in three higher dimensional frames.

"The higher dimensions of psi are more supported by experience than the ones associated with particle physics"

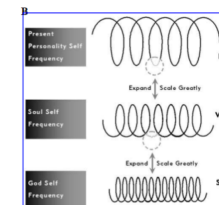
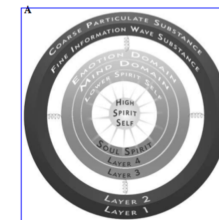


FIG. 5. A. The whole person biohydraulic metaphor. Each layer has a unique substance and infrastructure. The outer two layers constitute temporal physical reality. The middle shell is non-temporal and could be called the soul. The layer infrastructure and the coupling between layers largely determine the state of wellness



## JEAN-PIERRE JOURDAN "JUST AN EXTRA DIMENSION..."

## NDE and OBE reports include:

Perception of environment without help of sensory organs  
 Simultaneous perception of scene from several viewpoints  
 Transparency of objects and anomalous lighting  
 360° vision (spherical panorama)  
 Disturbed notions of space and time  
 Entire life unfolding in a few moments from external viewpoint  
 Access to personal future and subsequent synchronicity  
 Perception of the thoughts of others  
 Access to universal store of knowledge



## This suggests access to 5th dimension

Brain restricts consciousness to 4D space => normal perception  
 NDE gives some height in 5th dimension => global perception of 4D world  
 Small height => transparency and see objects from different sides  
 Large height => see everything at once

## Higher dimensions

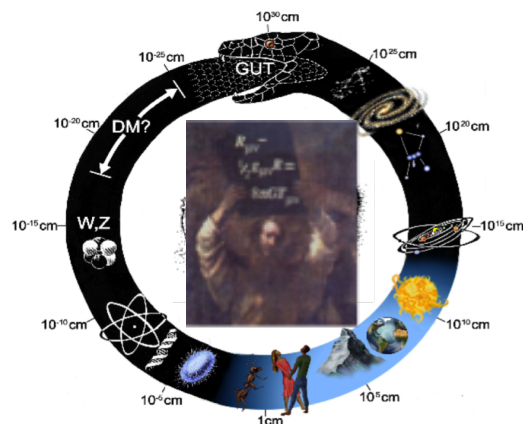
MATTER



MIND

"We must learn to mentalize space and spatialize mind" Paul Brunton

## SCIENCE &amp; SPIRIT

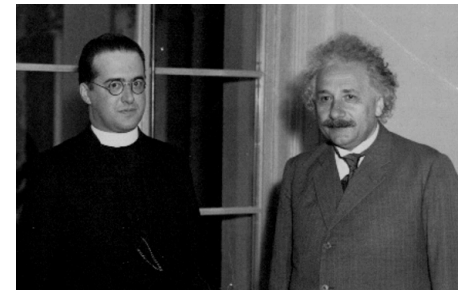


Is there room for God?

## COSMOLOGY AND RELIGION

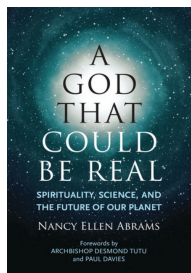
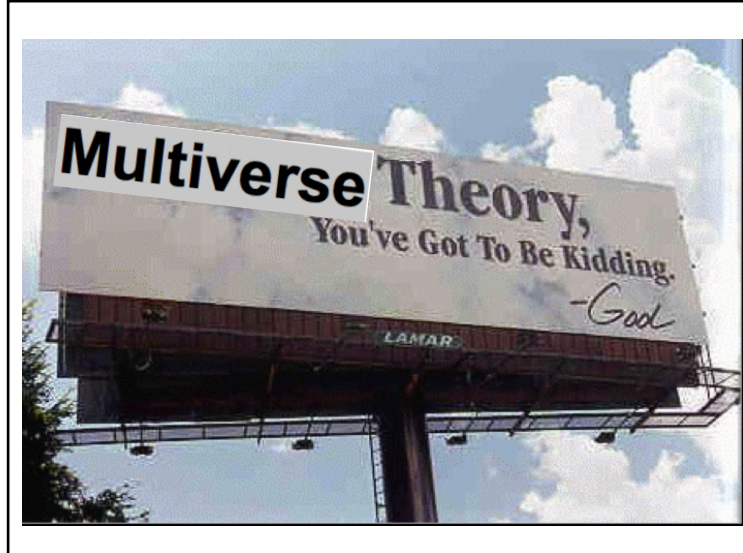
↑  
space independent  
time dependent

↑  
space dependent  
time independent



### DOES UNIVERSE NEED A CREATOR?

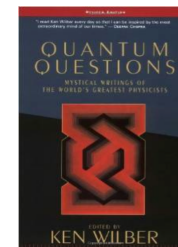
- How did Universe originate?
- It started as state of compressed matter 13 Gyr ago
- But where did the matter come from?
- From radiation and GUT processes at microsecond
- But where did the radiation come from?
- Generated from vacuum phase transition at  $10^{-35}\text{sec}$
- But where did space come from?
- Ex nihilo as result of quantum gravity at  $10^{-43}\text{sec}$
- But where did laws of quantum gravity come from?
- The laws are logical mathematical necessities
- But why is universe fine-tuned life?
- There is a multiverse in which constants vary.
- But who created may created the mutlierse?



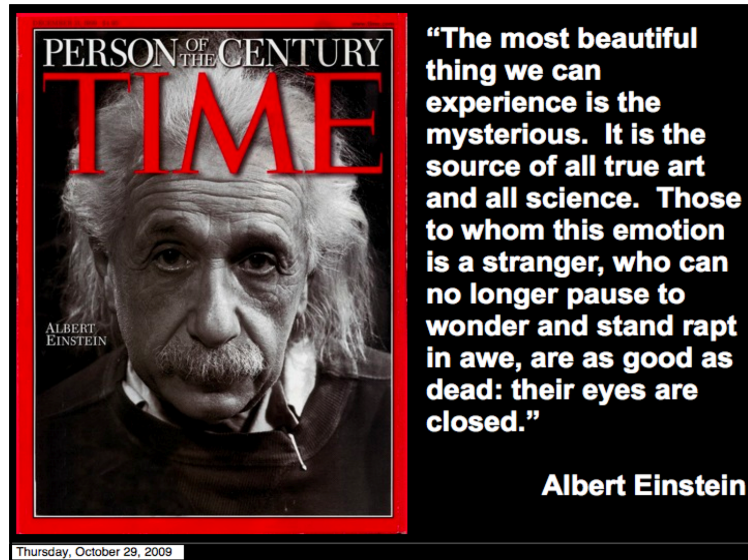
Abrams explores a radically new way of thinking about God. She dismantles several common assumptions about God and shows why an omniscient, omnipotent God that created the universe and plans what happens is incompatible with science. God, she argues, is an emergent phenomenon that arises from the staggering complexity of humanity's collective aspirations and is in dialogue with every individual. This God did not create the universe - it created the meaning of the universe. It's not universal, it's planetary. It can't change the world, but it helps *us* change the world. It is what humanity needs to inspire us to collectively cooperate to protect our planet and create a long-term civilization.

### SOME PHYSICISTS THINK SPIRITUALITY IS IMPORTANT

Heisenberg  
Schrodinger  
Einstein  
De Broglie  
Jeans  
Planck  
Pauli  
Eddington



"Quantum questions: Mystical writings of the world's greatest physicists"



## HOW RELIGION HELPS SCIENCE

"Facets of Buddhist thought" (K.Jayatilleke)

Clairvoyant insights of Buddha and disciples about physical world are recorded in Visuddhimagga

"Monks, there is a darkness of intergalactic space, an impenetrable gloom, such a murk of darkness as cannot enjoy the splendour of this Sun and Moon"

"On thousand mahayugas - 4,320,000,000 years of human reckoning - constitute a single day of Brahma. I have known the dreadful dissolution of the Universe. I've seen all perish again in every cycle. At that time every atom decays into the primal pure waters of eternity, whence all originally arose."

International  
Space Station



Inner  
Space Station



## MULTIVERSE AND RELIGION

"There are innumerable universes besides this one, and although they are unlimitedly large, they move about like atoms in You. Therefore You are called unlimited." (Bhagavata Purana 6.16.37)

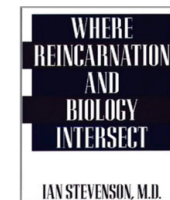
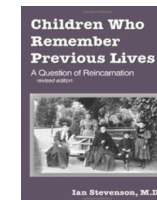
Fakhr al-Din al-Razi (1149–1209) in the *Matalib* raises the question of whether the term "worlds" in a Qur'anic verse refers to multiple worlds within this single universe or to many other universes beyond the known universe.

"He the Most High has the power (*qadir*) to create a thousand thousand worlds (*alfa alfi 'awalim*) beyond this world such that each one of those worlds be bigger and more massive than this world, as well as having the like of what this world has of ..... the heavens (*al-samawat*) and the earth (*al-ard*) and the sun (*al-shams*) and the moon (*al-qamar*). The arguments of the philosophers (*dala'il al-falasifah*) for establishing that the world is one are weak, flimsy arguments founded upon feeble premises."

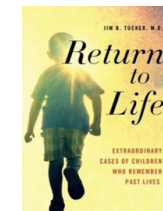
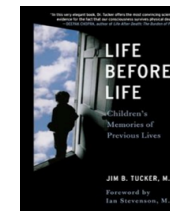
## HOW SCIENCE HELPS RELIGION: REINCARNATION STUDIES



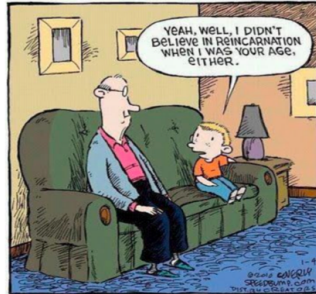
Ian Stevenson



Jim Tucker



Most convincing evidence from children who recall and provide verified details of previous life

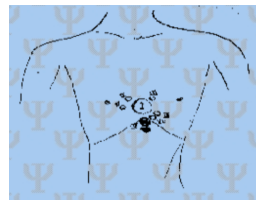


### IMPORTANT FEATURES

- Sometimes dying person wants to be reborn and announces this in dream to new mother.
- Children usually start talking about previous life at around 3 years of age and stop at around 6.
- Usually recall recent life, with typical interval of 16 months.
- Statements focus on end of life, 75% describing how they died.
- Previous death unnatural (eg. accident) in 70% of cases or premature if natural.
- Previous lives very ordinary, usually nearby geographically.
- Many children show phobias associated with previous death or phobias and talents associated with previous life.
- 35% have birthmarks associated with previous death.

### SOME EXAMPLES OF BIRTHMARK CASES

Postmortem report => within 10cm of wound in 88% of cases



Left: hypopigmented macule on chest of an Indian youth who, as child, remembered life of Maha Ram, killed with shotgun fired at close range. Right: circles show principal shotgun wounds on Maha Ram from autopsy report.



Severely malformed ear (microtia) in Turkish boy who remembered life of a man fatally wounded on the right side of the head by shotgun discharged at close range.



Almost absent fingers (brachydactyly) on one hand in boy of India who remembered life of boy of another village who had put his hand into blades of a fodderchopping machine and had his fingers amputated.



Congenital absence of lower leg (unilateral hemimelia) in Burmese girl who remembered life of young woman accidentally run over by a train, with her right leg being severed first.



Large verrucous epidermal nevus on head of Thai man who as child remembered life of his paternal uncle, killed with blow on head from heavy knife.

18 of 210 cases involve double birth-marks



Small, round puckered birthmark on Thai boy corresponding to entry bullet wound in man whose life he remembered who had been shot with rifle from behind.



Larger, irregularly shaped birthmark on frontal area. This birthmark corresponded to exit bullet wound of man whose life he said he remembered.

*Manifesto for a Post-Materialist Science*

[www.opensciences.org](http://www.opensciences.org)

"Consciousness: Why Materialism Fails"



#### MAINSTREAM SCIENCE SUGGESTS

- Matter is the only reality. **MATERIALISM**
- Everything explained by physics (local interactions of bits of matter obeying known laws). **REDUCTIONISM**
- Consciousness is generated by brain. **EPIPHENOMENALISM**



- Religion, spirituality, mystical insights are illusions. **ATHEISM**

**BUT THIS IS SCIENTISM NOT SCIENCE**



## PROMISSORY MATERIALISM

"Promissory materialism"  
(Sir John Eccles & Sir Karl Popper)

...the assertion that science will one day arrive at a completely materialistic explanation for every phenomenon, including consciousness



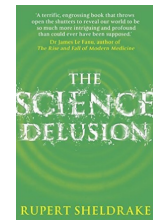
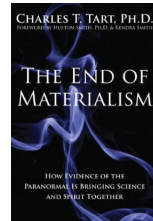
"Promissory materialism [is] a superstition without a rational foundation. [It] is simply a religious belief held by dogmatic materialists... who confuse their religion with their science. It has all the features of a messianic prophecy."

~ Sir John Eccles

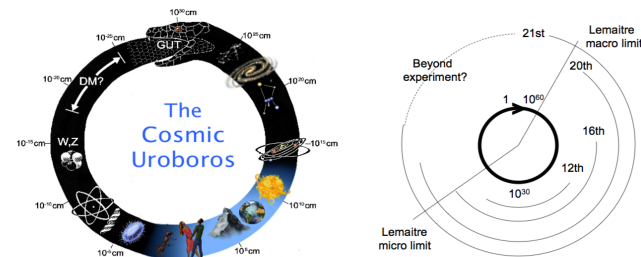
Nobelist, neurophysiology, 1963

1903-1997

Eccles J, Robinson DR. *The Wonder of Being Human*. Boston: Shambhala, 1985:36



## CHANGING NATURE OF SCIENCE



- Scientific progress => expansion of knowledge to larger and smaller scales
- Nature of science changes as it progresses and addresses new questions
- Micro and macro frontiers have always been on physics/metaphysics border
- Merger of micro and macro frontiers => end or transformation of science?

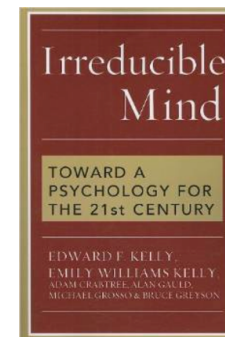


## Manifesto for a Post-Materialist Science

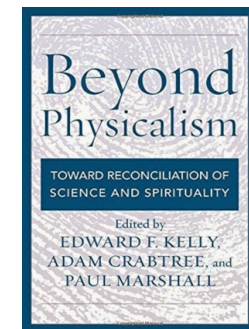
Mario Beauregard

The modern scientific worldview is predominantly predicated on assumption of scientific materialism that matter is the only reality. But conscious mental activity can be experienced in near-death experiences, out-of body-experiences and in profound spiritual experiences. In 2014, a group of scientists from a variety of fields (biology, neuroscience, psychology, medicine, psychiatry) came together to challenge the materialist worldview at an International Summit on Post-Materialist Science. This resulted in a summary report, asserting that mind is fundamental in the universe, and cannot be derived from matter and reduced to anything more basic; that minds are apparently unbounded and may unite in ways suggesting a unitary one Mind that includes all Individual minds; that the evidence suggests the survival of consciousness following bodily death; and that scientists should investigate spiritual experiences since they represent a central aspect of human existence.

## PHILOSOPHICAL ISSUE: IS MIND GENERATED BY BRAIN?



Rogue phenomena



New theories

## ESALEN: CENTER FOR THEORY AND RESEARCH



Cleese (funder) + Murphy (founder)

“We think it requires astonishing hubris to dismiss *en mass* the collective wisdom and experience of a large proportion of our forbears, including persons widely recognized as pillars of all human civilization, and we believe that the single most important task confronting all of modernity is that of meaningful reconciliation of science and religion.”

Seek a middle way between polarized fundamentalisms of science and religion, an enlarged conception of nature anchored in science and including spiritual realities.

## SURSEM = SURvival SEMinar

The Sursem participants, May 2010: Top (left to right): Ed Kelly, Deb Frost, Gordon Wheeler, Charles Tart, David Hufford, Adam Crabtree, Mike Murphy, Harald Atmanspacher; Middle: Henry Stapp, Mike Grosso, Jim Tucker, Bruce Greyson, Sam Yau, David Presti, Eric Weiss, Bernard Carr, Nancy Worcester; Bottom: Greg Shaw, Frank Poletti, Lorilai Biernacki, Jeff Kripal, Bob Rosenberg



MATTER



MIND

“Instead of rigidly fencing off mind from matter, we must seek always for participation and the higher reality in a hierarchical universe” Michael Whiteman

When the Swedish queen went public with her experiences of “spooks” inhabiting one of the royal manor houses, the militant skeptics wrote that she should not be allowed to lead the public astray with such nonsense which they said is irreconcilable with modern materialistic science. In her defence Adrian Parker quoted from “My Back Pages” by Bob Dylan (in the news here because of his Nobel prize).

*In a soldier's stance, I aimed my hand at the mongrel dogs who teach  
Fearing not that I'd become my enemy in the instant that I preach  
My existence led by confusion boats, mutiny from stern to bow  
Ah, but I was so much older then, I'm younger than that now*

*Yes, my guard stood hard when abstract threats too noble to neglect  
Deceived me into thinking I had something to protect  
Good and bad, I define these terms quite clear, no doubt, somehow  
Ah, but I was so much older then I'm younger than that now*

“There is one thing more powerful than all the armies in the world and that is an idea whose time has come.” Voltaire