

C P SNOW  
and the  
NASA HIGH ENERGY PROJECT

by

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by

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## **THE FLORENTINE NEW MEASUREMENT OF HUMANITY PROJECT**

supports the thrust of the paper, *C P Snow and the Nasa High Energy Project*, as a program to develop a creative new way of thinking. This is deemed necessary, in order to change the now obsolete contemporary global culture; to create a new culture driven by redefined concepts of science and art, which, until today, has been bound by a reductionistic, mechanical paradigm.

Dr Paolo Manzelli, Firenze, March 22, 2010  
Director of LRE/EGO-CreaNet–University of Florence  
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# INRODUCTION

by Foundation Professor Dr John D Frodsham  
School of Human Communication  
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During 1973 The Government of Western Australia awarded the artist, Robert Pope, a Bursary to advance his research into the relationship existing between the cultures of Australian science and the Humanities in Australia . He had established a successful Science-Art school for aboriginal students in liaison with the West Australian Department of Native Welfare, in order to compare the effects of Fullerene general systems energies upon different societies. His controversial theories were recorded in feature articles by the Australian national journal *The Bulletin*.

As the founder of the School of Human Communications at Murdoch University in Western Australia, I wrote a Letter to the Editor, published by *The Bulletin* on the 1st of February 1974 which contained the following:-

"...Hence, pope's work is important not in artistic terms alone but sociologically. What he is trying to do, in an age of divided cultures, the humanist and the scientific, is to cross the Snowline and interpret science aesthetically. In doing so, he may well be doing more to establish communications between the two cultures than any other artist living..."

Now that science has established a rigorous fractal life-science, it can be reasoned that this is a most urgent matter, one that the Humanities should grasp as soon as is possible. Sir C P Snow's Rede Lecture at Cambridge University in 1959 is quite literally, in Buckminster Fuller's words, a matter of *Utopia or Oblivion*.

**ABSTRACT of the Professor Wolfgang Weber's Review of the paper  
C P SNOW AND THE NASA HIGH ENERGY PROJECT**

by Andrew Meeves, B.Bus (Hons). CPA

Longevity of scientific theory often evolves to assume factual status, quarantining such concepts as 'fundamental' and 'beyond question'. Knowledge is subsequently developed assuming such theories as fundamental indisputable truths, however there are many examples of scientists misconstruing findings by misapplying hypotheses through improper transfer methods.

As Karl Popper emphasises, Darwin's theory of *Natural Selection* can only ever be an unprovable hypothesis as it is impossible to perform a proof experiment to affirm or deny the theory. Yet Darwinists argue that mental intensification of the human species follows the rules of Darwinism and that social and cultural growth and progress can be explained by Darwin's hypothesis.

Another example is the "*Big Bang*" Theory, still popular today. However many physicists now consider 90% of matter seems to be distributed within so called "empty space" with only 10% in the visible galaxies, making that theory obsolete.

Then there is the illegitimate application of the Second Law of Thermodynamics to the Humanities. The basic concept, that while energy never gets lost so the sum of all forms of energy remain the same, the forms of energy tending to lower qualities, until reaching their lowest level as "heat energy", is erroneous. Such a concept means all systems tend to end in a "Heat Death". Inappropriate transference of this concept of mechanical energy to other fields outside the study of physics means human life, culture and social development would be "condemned" to a similar fate?

Such inadmissible transfer of pure physics theory to fields of research in humanities fails to account for regenerative energies such as creativity, music and the arts, love and friendship, a smile between parent and child and replenishment of the human soul. Pure physics cannot describe reality as experienced within the compass of human emotion.



Many proposals have attempted to unite the Humanities and the Sciences, but the gap has increased, suggesting the need for a more comprehensive understanding of the relationship.

This paper attempts to describe the world by the sciences as well as the hermeneutical interpretation, ethical basement and forces of the human soul drawing from the work of C P Snow and Buckminster Fuller.

## Professor Wolfgang Weber

Professor Dr. Wolfgang Weber is a world renowned Electronics Engineer, having held positions such as the Head of the Development Sector in AEG-Telefunken Institute of Automatic Control in Frankfurt, Hamburg and Berlin. Among his various awards he received the Order of Honor "Albert Einstein" in the United States of America in 1985.

Professor Weber's international reputation in assessing scientific opinion is authenticated with his having been, since 1977, the Editor-in-chief of the Journal *Digitatechnic* (VDI-Verlag, Dusseldorf), and Editor of "Tachenbuch der Informatik" (Springer--Verlag, Berlin, Heidelberg, New York). As a member of the Editorial Board of *FACTA UNIVERSIATIS* - Series *Electronics and Energetics* of the University of Nis, Professor Weber is also the permanent scientific critic and reviewer for *ELECTRONIC LETTERS* from Great Britain and German scientific publications.

In particular he is well able to assess the complex energetics involved within the Platonic tradition of Greek philosophy. In ancient Greece the symbol of knowledge in Socratic society was the Owl. Professor Weber, as a recipient of the Socratic Society's coveted Golden Owl award, presented only once every five years, surely places him as a pivotal person in the development of the New Global Renaissance sought for by C P Snow and Buckminster Fuller.

The discoveries within this paper were based upon a research program proposed by Professor Kun Huang, who was awarded China's National Supreme Scientific and Technological Award in 2001. It is significant that Chinese universities within the People's republic of China recognised the work of Professor Weber and Professor Robert Pope, one of the authors of this paper. Professor Weber was appointed as an honorary professor and advisor at the Northwestern Jiao Tong University of Beijing and Robert Pope as a visiting professor at Yangzhou University.

# C P SNOW AND THE NASA HIGH ENERGY PROJECT

## THE GLOBAL IMPORTANCE OF THE NASA HIGH ENERGY PROJECT

What C P Snow termed the culture of the Humanities, was once a fractal logic life-science belonging to the Classical Greek Era's worldview. Modern science has, in grave error, classified this original Western science as inconceivable. Sir C P Snow and Buckminster Fuller argued that unless modern science reunited itself with that worldview, civilisation as we understand, can only be destroyed. Both Snow and Fuller agreed that the obstacle preventing that reunification was an inadequate understanding of the universal energy functioning of the second law of thermodynamics.

Thirty years ago the Science-Unit of Australian National Television documented, as part of its television series, *The Scientists - Profiles of Discovery*, the concept that, when Buckminster Fuller's theories from ancient Greece became the basis of a life-science, this vital reunification will have occurred - establishing the rigorous scientific basis for the new Global Renaissance.

The Abstract of the Canadian Company, C Sixty Inc's book *Perspectives of fullerine Nanotechnology* by Eiji Osawa states "The founding scientists of C Sixty Inc. include the undisputed world leaders in the application of fullerene to medicine, including the 1996 Nobel Prize winners in chemistry." C Sixty is pioneering medical science associated with buckminsterfullerenes.

C P Snow and Buckminster Fuller's objective to reunite the culture of the Humanities, as defined within the Classical Greek Era's fractal logic life-science worldview, was to avoid the destruction of civilisation through an inadequate scientific understanding of the second law of thermodynamics. The title of Fuller's book *Utopia or Oblivion* makes that quite clear.

It can be argued that from the Classical Greek Era's Humanities viewpoint, Western science, economics and politics needs to be modified in order to develop future human survival technologies. These technologies will be associated with the emerging comprehension of the energy functioning of a universal quantum fractal Cosmological reality.

It is necessary to make it quite clear that the viewpoints expressed within this paper, C P SNOW AND THE NASA HIGH ENERGY PROJECT have been derived quite independently of C Sixty Inc. It can be hoped however, that as global circumstances change, this paper might become relevant to the proposal that the vast potential of that company, now considered by some to be holding human survival science within its grasp, will be realised.

The reuniting of Sir C P Snow's two cultures can be shown to be introducing to the world, a fractal logic life-science, which allows the transition of the present mechanistic industrial age to an era of supra-science and technology, crucial for the betterment of the global human condition. This is considered as a deciding factor in favour of global human survival.

## **SIR C P SNOW AND BUCKMINSTER FULLER**

In his Rede Lecture at the University of Cambridge in 1959 Sir C P Snow argued that the limited understanding about the nature and functioning of the second law of thermodynamics was scientifically irresponsible. The title of Snow's lecture was *The Two Cultures and the Scientific Revolution*. Snow's book by that title was listed by *The Times Literary Supplement* as one of 100 books most influencing Western public thinking since World War II.

During the past 15 years, science has developed so rapidly that it has given the humanities no time to grasp the significance of the social ramifications of the rebirth of Fuller's lost spiritual (holographic) engineering principles from ancient Greece.

**The University of Harvard's Novartis Chair was established to enable the study of human interactions that lead to the creation of successful business enterprises for the betterment of society.**

Its Novartis Professor, Amy C. Edmondson, in her biography of Buckminster Fuller, explained that his biological energy discoveries had been derived from Plato's work.\* This endorses C P Snow's argument that modern science needed be reunited with the logic of the ancient Classical Era's worldview.

Professor Amy Edmonson wrote, "By now familiar with Fuller's underlying assumptions, we shall take time out to introduce some background material. The origins of humanity's fascination with geometry can be traced back four thousand years, to the Babylonian and Egyptian civilizations; two millennia later, geometry flourished in ancient Greece, and its development continues today. Yet most of us know almost nothing about the accumulated findings of this long search. Familiarity with some of these geometric shapes and transformations will ease the rest of the journey into the intricacies of synergetics." This can be considered to be an essential understanding regarding the social importance of the new Fullerene medical science.

Synergetics is a reference to the Fullerene biological energies now known to exist in a fractal logic form that balances the destructive energies of the second law of thermodynamics.

\* A Fuller Explanation by Amy Edmonson: *Chapter 4, Tools of the Trade pages 36...Plato's Discovery*. From research into Platonic ethics one realises that synergetic was derived from the Classical Greek Era's worldview. Amy Robinson explains why this was not readily apparent to students of Fuller's theories.

*"Bucky's delight in a new-found truth never lost its intensity. He promptly adopted each discovery into his growing synergetics inventory. If, in his enthusiasm, he appeared to be taking credit for age-old discoveries, let us—rather than judging—try to enter into the spirit of his search. And if egotism seemed to have gone hand in hand with enthusiasm, it is because both grew out of his constant willingness to see everything as if for the first time".*

As the present modern technological culture is governed by the second law of thermodynamics, it is impossible to link any present-day life-science to the workings of a universal fractal reality. Mainstream science accepts that a fundamental property of fractal geometrical logic is that it extends to infinity; however, the second law demands that all life in the universe must be totally destroyed. This law, governing mainstream science, is known also as the universal heat death law or the law of universal chaos. It holds that when all of the heat in the universe radiates away into cold space, then all life in the universe must become extinct. Modern technological culture functions in tandem with global economic rationalism, with both totally governed by the destructive law of universal chaos.

Einstein called the second law *The premier law of all of science*. This law governs the Western worldview, including economics, politics and religious dogma; the latter being obvious. Einstein's colleague, Sir Arthur Eddington, gave the law a god like social status by calling it the *Supreme metaphysical law of the entire universe*, which, in this day and age can be considered to be a most dangerous and unacceptable fanatical statement.

This extinction-science obsession has been challenged by the discovery of Mandelbrot's fractal geometrical formula in 1980, which is considered by Arthur C Clark to be the most important mathematical discovery in human history. The law of universal chaos in ancient times, known as the *Principle of Destruction*, belonged to various gods, such as Diabolos, the Destroyer of worlds. The only possible geometrical basis for the ancient Greek '*infinite*' life-science is fractal logic, a logic that continues to infinity. To be able to reason now, about the second law being challenged by a medical science, based upon a fractal worldview, is about Humanity emerging from the clutches of the Dark Ages.

In 2001 the Science Advisor to the Belgrade Institute of Physics, Petar V Grujić wrote a paper about The Concept of a Fractal Cosmos. The Abstract contained the following:

“The concept of a fractal cosmos occupies a prominent position in the modern cosmology. We trace the development of this concept

from the presocratic Greece to the present state of affairs. In this first part we consider the original idea due to Anaxagoras and elucidate a number of points with regard to possible interpretation of his cosmological ideas”.

Grujić's work was published by the Harvard Smithsonian/NASA High Energy Astrophysics Division Library.\*

The aim of this paper is to explain that THE NASA HIGH ENERGY PROJECT has knowledge of the essential energy key that Sir C P Snow argued would prevent the destruction of modern civilisation. America's ability to now link life-science energies to the functioning of fractal geometrical logic is about C P Snow's key to human survival. America can now assist with the transition from the present mechanistic industrial age into a sustainable global technological future for the betterment of the global human condition.

This follows in the footsteps of Anaxagoras, a founder of scientific philosophical logic, whose scientific worldview is synonymous with the virtue ethics of the Golden Age of Classical Greece, such as love, compassion, freedom, liberty, wisdom, justice and truth. With genuine and moderate effort, America can now assist in bringing about a new Global Golden Age.

\*The Smithsonian/NASA Astrophysics Data System  
The Concept of Fractal Cosmos: I. Anaxagoras' Cosmology (2001)

**A UNIVERSE IN THERMODYNAMIC RUINS**  
**Bertrand Russell, Philosopher, Mathematician, Logician,**  
**1950 Nobel Laureate**

In direct conflict with Fuller's synergetic discoveries was Bertrand Russell's influence upon Western society during the 20<sup>th</sup> Century. His unhappy worldview negated the efforts of those who sought to bring about a more humanitarian understanding of the second law of thermodynamics.

Russell, an influential mathematician, wrote about the second law of thermodynamics and a universe in ruins, in the following terms.

"All the labours of the ages, all the devotion, all the inspiration, all the noonday brightness of human genius, are destined to extinction in the vast death of the solar system, and the whole temple of man's achievement must inevitably be buried beneath the debris of a universe in ruin - all these things, if not quite beyond dispute, are yet so nearly certain that no philosophy which rejects them can hope to stand. Only within the scaffolding of these truths, only on the firm foundation of unyielding despair, can the soul's habitation henceforth be safely built."\*

The Nobel Prize in Literature was awarded to Russell in recognition of his varied and significant writings in which he upheld humanitarian ideals and freedom of thought. However, it can be argued that within Russell's worldview, there is no sustainable ethical freedom of thought whatsoever, because that belongs to infinite fractal logic, totally forbidden under the destructive dictates of the second law, held by him to be unchallengeable.

This is a prime example of how wide and dangerous is the gulf that C P Snow warned existed between modern science and the Humanities. The Humanities that C P Snow refers to, was a fractal life-science that Buckminster Fuller developed in defiance of the modern Western obsession with the second law of thermodynamics. Fuller's work can no longer be treated with the scientific contempt imposed upon it by Bertrand Russell and other prominent philosophers of science. As the Canadian C Sixty Inc., medical science shows, three Nobel Laureates in Chemistry have established a life-science associated with Fullerene theories.

The second law, as it is generally understood today, is about total decay and destruction. The Max Plank Astrophysicist, Peter Kafka, explained that it can be considered to be common knowledge within Islamic science that the second law of thermodynamics, which controls global economic

\*Bertrand Russell, A Freeman's Worship (1903)

rationalism, was once known as Diabolos the god of universal chaos. Such observations in science can be used by extremists to engender acts against Western civilisation that arise from violent scientific certitude.

Traditional Western scientists are not appreciative of any need to provide a safety valve of discussion to moderate this clash between two cultures. They would suffer culture shock to even become aware of such aspects of the widening culture gulf that C P Snow warned would destroy civilisation, let alone being able to consider bringing science into focus in an attempt to bridge that gulf. Russell's essay *On Denoting* is considered to be the epitome on logical philosophy. However, the fractal life-science logic of the 19<sup>th</sup> Century mathematician, Bernard Bolzano's *Theory of Science*, which challenges Russell's worldview, remains generally unknown today. It is rather a serious issue that the existing unbalanced understanding of the second law can forbid research into a fractal life-science when, in 1900, its author, Bolzano, was acclaimed, by an authoritative source, as being one of the greatest logicians of all time.\*

\*Edmund Husserl - Logical Investigations - vol. I - Prolegomena to a pure logic § 61 (Appendix) (1900).

## **IMMANUEL KANT considered to be one of history's most influential thinkers**

Bertrand Russell's *History of Knowledge* incorporates philosophical comparisons with philosophers such as Immanuel Kant, whose Aesthetics - Art appreciation theory, is held to be influential in the 21<sup>st</sup> Century. But, the accepted endless learned tomes about the scientific content of Western philosophy of science, since the 5<sup>th</sup> Century, were condemned by the Roman Church to subservience to an entropic mathematical ignorance.

The Science-Art Research Centre's correction to Kant's Aesthetics, Art appreciation theory, was made by the Centre's Aesthetician, Dr George Robert Cockburn, Royal Fellow of Medicine (London), who upgraded it into a fractal life-science. Cockburn's work was found to be compatible with the 18<sup>th</sup> Century mathematician Benard Bolzano's, *Theory of Science* in which Bolzano's own correction to Kant's Aesthetics has been



extrapolated into modern fractal life-science logic. Professor Gert Eilenberger's correction to Kant's work, mentioned further within this paper, also advances aesthetics from quantum mechanics into a fractal life-science worldview of cosmological reality. However, scientists of the present fixed worldview persuasion are compelled by global economic rationalism to develop only the chaos technology of the damned.

Basic to C P Snow's argument for the survival of modern civilisation, is that while the Humanities was extolled within the lecture halls of Western Universities for centuries, it was based upon false physics assumptions. The fact that the Classical Greek Era's fractal life-science logic is now validated by three Nobel Prize Winners in Chemistry, can be seen by some to clearly demonstrate that this is so. It can also be argued that with moderate debate, the Humanities has opportunity now to become part of a Golden Age for all of humanity. Instead of learned academics seeking accolades based upon a science of economic death and destruction, a new science exists, which is putting life back into science.

**FOR MORE THAN A HUNDRED YEARS NOW  
other eminent scholars have echoed C P Snow's warning about the  
growing social chaos being caused by an inadequate understanding of  
the second law of thermodynamics.**

### **MARIA MONTESSORI AND TIELHARD de CHARDIN**

C P Snow and Buckminster Fuller were not alone among eminent scientists who realised that the existing unbalanced obsession with the second law of thermodynamics can only lead to the deterioration of civilisation from war and economic collapse. Maria Montessori was listed as the greatest scientist for 1907 within TIME Magazine's Century of Science and she referred to the second law of thermodynamics as a greed energy law. Montessori wanted to free humanity from its yoke by balancing this law with Teilhard de Chardin's universal energy formula derived from Anaxagoras' conservation of universal energy law as defined by

Buckminster Fuller's synergetics.\* De Chardin's concept has been seen to balance Einstein's  $E=Mc^2$  of 1905, which only held for the functioning of the mechanical description of the universe, completely lacking Fuller's life-science logic.

Maria Montessori and the Jesuit Priest Teilhard de Chardin were devout catholic colleagues who sought to place the process of ethical human creativity into the logic of a universal fractal reality or '*A Holistic Vision of the Universe*' \*\*. Such concepts placed divine ethical purpose beyond the boundaries of papal dogma into the Classical Greek idea of the ethical purpose of the Nous. Montessori was Italy's first female physician and was brought to San Francisco by Margret Wilson, the daughter of President Woodrow Wilson. The Vatican appeared to turn a blind eye to the politically influential Montessori, but papal decree ostracising de Chardin's theories seemed to account for only several people attending his funeral, even though de Chardin had been awarded France's highest military honour for bravery as a medical stretcher bearer rather than as a combatant in World War I.

Montessori's scientific observations that children were influenced by a natural self-creating process that was distinct from the dogmatic assertions of adult parenthood, was of interest to her colleagues including Alexander Graham Bell and Thomas Edison. This suggests a line of reasoning that led the scientist, Matti Pitkanen, to deduce that the key to open

\*"It is an anti-entropic process, running counter to the second law of thermodynamics with its degradation of energy and its tendency to uniformity." Sir Julian Huxley, Introduction to Teilhard de Chardin's *The Phenomenon of Man* (1955).

\*\*Nourishing the Spiritual Embryo:

The Educational Vision of Maria Montessori

Published in *Nurturing Our Wholeness: Perspectives on Spirituality in Education*, Edited by John P. Miller and Yoshiharu Nakagawa (Brandon, VT: Foundation for Educational Renewal, 2002)

**"A Holistic Vision of the Universe**

The blend of science and religion in Montessori's worldview forms the basis for a truly holistic conception of the universe."

Montessori and de Chardin's Golden Gates to the future was electromagnetic, as mentioned further in this paper. After her death the apparent association of her work with that of the balancing energies of Buckminster Fuller's syntropic system,\* failed to gain a pragmatic foothold in science. Montessori's work might now be considered to have been anticipatory to practical aspects within the domain of C Sixty Inc's new Fullerene life-science.

In 1902 Professor Woodrow Wilson was promoted to the Presidency of Princeton University. As President of the United States of America, he installed a Montessori classroom in the Whitehouse, where his daughter trained as a Montessori-teacher.

Deeply concerned over the carnage of World War I, he unsuccessfully attempted to bring about a referendum in which the American Constitution would alter its mechanical basis to a life-science, because he considered that Democracy was a living thing. However, he wanted to interpret the Constitution according to Darwinian principles, not realising that Darwinian life science was governed by the second law of thermodynamics, the understanding of the very energy law that was so repugnant to Montessori, de Chardin., Buckminster Fuller and the Nobel laureate, Szent-Gyorgyi.

**Might not C Sixty Inc., life science expertise be needed to modify Princeton University's science program? In particular, it can be considered that environmental science could be considered to be globally inadequate because of President Woodrow Wilson's unintentional mistake.\*\***

\*The ideas of Montessori from a philosophical, psychological, and educational point of view. Foreword by Buckminster Fuller. Montessori-Pierson Publishing Company, Oxford.

\*\*<http://www.princeton.edu/step/> (Date accessed: February 2010)

“Princeton University's Program in Science, Technology and Environmental Policy (STEP) is based in the Woodrow Wilson School of Public and International Affairs with strong ties to the Princeton Environmental Institute.”

## SZENT-GYOERGYI, NOBEL LAUREATE IN MEDICINE

It can be considered that the 20<sup>th</sup> Century work of scientists such as David Bohm,\* Karl Pribram, and Erwin Schroedinger are linked to the energy theories of both Buckminster Fuller and the Nobel Laureate Szent-Gyorgyi. They all relate in various ways to the Classical Greek concept that there exists an evolving cosmological consciousness of a spiritual or holographic reality that is not perceivable through ocular vision.\*\* Buckminster Fuller synergetic energy was derived from such concepts.

The Science-Art Research Centre of Australia has experimental evidence demonstrating that the relevant mind-optics of holographic experiences can be shown to belong to an evolving creative process as is explained within this paper. The electromagnetic basis of that phenomenon being considered relevant to Alexander Graham Bell and Thomas Edison's particular interest in Montessori's creative energy theories.

Fuller and Szent-Gyorgyi were emphatic that the evolutionary process is in a state of harmonic balance with the decay of matter, governed by the second law of thermodynamics. During the latter part of the 20<sup>th</sup> Century, the Director of the Science-Art Research Centre in Australia, Robert Pope, received from the Institute of Basic Research in America, a professorial title and he was also emphatic that the process extended to infinity.

\* [http://en.wikipedia.org/wiki/Karl\\_H.\\_Pribram](http://en.wikipedia.org/wiki/Karl_H._Pribram) (Date accessed February 2010)

*“David Bohm had suggested that were we to view the cosmos without the lenses that outfit our telescopes, the universe would appear to us as a hologram. Pribram extended this insight by noting that were we deprived of the lenses of our eyes and the lens like processes of our other sensory receptors, we would be immersed in holographic experiences.”*

\*\*The Realm of Reality According To Plato, An Analysis of Plato's Republic  
July 5, 2008 Jessica Gleason

*“Plato believed that the realm of reality is divided up into two different areas, the world of senses and the world of ideas (forms). He believed these two worlds must co-exist to maintain equilibrium in the world, but in doing so, he also believes that we can only trust what we “know” due to reason and that we must discredit things we perceive with our senses”*

This award was for successfully directing the Centre's research program that resulted in a major optics discovery published by the world's leading technological research institute. Ilya Prigogine, who was on the Institute's Editorial Board, had been awarded a Nobel Prize for his work in thermodynamics, in which 'dissipative structures' can self organise, seemingly in defiance of Einstein's understanding of the second law.

At that time there existed scientific controversy as to whether Prigogine's theories extended to infinity. As Pope's future general research program depended upon the work of scientists who were adamant that negentropic fractal logic information extended to infinity, he altered the Centre's research program accordingly. He and his colleague, the Centre's Bio-Aesthetician, Dr George Robert Cockburn, Royal Fellow of Medicine (London) set up a research program to develop the cerebral optics associated with the theories of the 1937 Nobel Laureate in Medicine, Szent-Gyorgyi. In 2008 the Centre's colleague, Christopher Degenhardt published *Feminine Ethics in the New Measure of Humanity*, his Review of Cockburn's 1984 book, *A Bio-Aesthetic Key to Creative Physics and Art*,\* revealing that Cockburn's theories were compatible with the 19<sup>th</sup> Century mathematician Bernard Bolzano's fractal logic *Theory of Science*, as referred to in this paper.

During the 1990s it was considered to be scientifically naive to insist that this negentropic process was part of the structure of the Humanities in the form of a Classic Greek fractal life-science. The Science-Art Centre began to focus upon Buckminster Fuller's concept that vital pragmatic discoveries could eventuate from within the Arts. The Centre, by upgrading Immanuel Kant's Aesthetics back into the world of Aristotle's practical ethical science to guide ennobling government, made an important discovery related to the self-organising energies involved in fractal liquid optics growth and development. Over the centuries some artists had unconsciously depicted definite holographic images within paintings, revealed quite clearly through ChromaDepth 3-D optics.

\* *Feminine Ethics in the New Measure of Humanity* – A Review of Dr G. Cockburn's *A Bio-aesthetics Key to Creative Physics and Art*.(1984). Pub., Escape Gallery. 2008. Available P O Box 107 Murwillumbah. New South Wales 2484 Australia.

As has now been realised by many scientists, the conservation of universal energy balancing the process of entropic decay, creates a flux of negentropic information, relevant to a biological self organising process associated with evolving consciousness. The formation of holographic images in association with liquid crystal optics is beginning to be associated with a fractal life-science and it can be envisaged that with a little modification, existing technologies could be transformed into supra-human survival technologies.

An example of this is that it is now being considered by scientists that the liquid crystal cellular membrane can take thought processes, generated by entropic mechanisms, and by utilising the temperature drop induced by sleep, remove as noise, those thoughts not relevant to the development of evolutionary consciousness. In modern technology a similar process appears to be used to eliminate noise from the manufacture of high quality stereophonic musical recordings. It can be considered to be of interest to C Sixty Inc., that Szent-Gyorgy proposed that the term 'syntropy', be associated with Fullerene research processes to distinguish them from those associated with entropy.\*

In 1974 the Hungarian biologist Albert Szent-Gyorgyi proposed to replace "negentropy" with the positive term "syntropy", so as to represent the "innate drive in living matter to perfect itself". This has a correspondence on the psychological level, "a drive towards synthesis, towards growth, towards wholeness and self-perfection".

\*[http://wapedia.mobi/en/Albert\\_Szent-Gyorgyi](http://wapedia.mobi/en/Albert_Szent-Gyorgyi)

He came to see cancer as being ultimately an electronic problem at the molecular level. In 1974, reflecting his interests in quantum physics, he proposed the term "syntropy" replace the term "negentropy"

## **THE ASTROPHYSICIST PETER KAFKA**

During the 1990s the Max Plank astrophysicist Peter Kafka, in his six essays entitled *The principle of creation and the global accelerating crisis*, classified the limited understanding of the second law by scientists, technologists and politicians as 'diabolical' and 'useless'. He accurately

predicted that this limited understanding was accelerating humanity toward its current global economic crisis. His solution, in the final paragraph of his essays, advises that when the situation became ‘unbearable’ and ‘ugly’ enough, then “We can be sure that beautiful attractors are near” a reference to the self organising properties associated with fractal logic.

## **THE SCIENCE-ART RESEARCH CENTRE OF AUSTRALIA**

The Centre’s theories that the understanding of the second law of thermodynamics was based upon false physics assumptions, was documented by the Science Unit of Australian National Television in 1979. The documentary was part of an eight part series entitled *The Scientists-Profiles of Discovery - Pope the Catalyst*. The work was investigated by the Australian Commonwealth’s Department of Trade and Export Development, which provided a grant in conjunction with UNESCO. This allowed the director of the Centre, Robert Pope, to attend the Second Marcell Meeting on General Relativity at the International Centre for Theoretical Physics in Trieste in 1979. The Grant recognised and endorsed that the objective of the Centre was to bring to Australia knowledge of a new supra-technology that defied the present understanding of the second law of thermodynamics. Thirty years later, the existence of an indisputable medical science linked to the research of three Nobel Laureates in Chemistry, can be considered to have validated Robert Pope’s theories.

## **KUN HUANG**

One of China’s greatest physicists, Kun Huang, who was awarded China’s National Supreme Scientific and Technological Award in 2001, was a graduate of the Confucius Institute of the University of Edinburgh. His Science-Art optics research program, in defiance of Einstein’s understanding of the second law, was given to the Australian Science-Art Research Centre of Australia in 1979. As a result of Huang’s proposed research methodology, new physics laws governing optimum biological growth and development through space-time were discovered. The relevant mathematical papers were selected for reprinting as important discoveries from the 20<sup>th</sup> Century world literature by the world’s leading technological

research institute in Washington, the IEEE-SPIE Milestone Series.

Huang's successful program involving simple life-forms has now been upgraded by the Science-Art Centre to embrace the concept of generating futuristic human survival blueprint simulations based on Texas University's Richard Merrick's electromagnetic life-science model, which he developed from the Classical Greek Era's Music of the Spheres.\*

\*Richard Merrick, *Interference A Grand Scientific Musical Theory*, 1<sup>st</sup> Edition, 2009, USA

## **FLORENCE UNIVERSITY'S NEW MEASUREMENT OF HUMANITY PROJECT**

This Florentine Science-Art Project is directed by the chemist Paolo Manzelli in collaboration with the quantum biologist Massimo Pregnotato, (Founder of Quantum Bionet) and the Science-Art Research Centre of Australia. The focus of its "Knowledge Project" is to facilitate people's ability to share the innovative content of knowledge and development, based on innovative method and ideas capable of correlating Research and Enterprise in a new dimension of post-industrial society. ", based on the progress of " science of life" (Paolo Manzelli).

Traditionally, Florence University is synonymous with the word Renaissance and its NEW MEASUREMENT OF HUMANITY PROJECT is considered to be leading the world in introducing the new fractal life-science to the Humanities, as C P Snow had insisted must occur to prevent the destruction of civilisation.

## **RICHARD MERRICK OF THE UNIVERSITY OF TEXAS**

Richard Merrick is considered to be the world's leading bio-electromagnetic researcher capable of advancing Kun Huang's successful life-science program from primitive life forms to the generation of rigorous futuristic human survival blueprints. A research liaison has been proposed between Dr Merrick, the Florentine Project and the Science-Art Research Centre of Australia in order to obtain such blueprints and deduce the



relevant technology allowing humanity to make the virtual evolutionary leap forward through space-time according to Creative Physics principles. The electromagnetic model of human cerebral functioning developed by Richard Merrick, can be considered to reflect energy information emanating from the sphenoid bone that is compatible with the Music of the Spheres upholding the Classical Greek fractal life-science worldview. His work is thoroughly detailed in his book *INTERFERENCE- A Grand Scientific Musical Theory*, which has become a basic reference book at the Science-Art Research Centre of Australia, to extend Kun Huang's research program to generate rigorous human survival blueprint simulations.

**VARIOUS ANCIENT EASTERN PHILOSOPHIES as well as the original Greek Life-Science were based upon a fractal cosmological reality.**

In his television documentary entitled *Fractals: Colours of Infinity*, Arthur C Clark considered that the discovery in 1980 of a formula to adequately represent fractal geometrical logic was the greatest mathematical discovery in human history. However, even without that formularisation, ancient Eastern philosophies employed fractal geometric logic. Computer graphics employing aspects of the philosophy associated with Hinduism and Buddhism's 'Heaven of Indra', have been used to generate Wada's fractal. This fractal image presents similarities to Buckminster Fuller's energy dance of life. Ancient Greek philosophy used similar fractal intuitions to create the basis of the original 3<sup>rd</sup> Century BCE Western Life-science.

Fuller's Classical Greek fractal dance of life energies have been nano-photographed functioning within the human DNA. The energies are clearly designed to guide human evolution into the reality of a fractal logic universal creative process, in complete defiance of the 20<sup>th</sup> Century's understanding of the second law of thermodynamics.

# **FOR THE HUMANITIES.**

## **A brief historical background of fractal life-science logic, its demise and its restoration in the 21<sup>st</sup> Century**

### **MATHEMATICAL RESEARCH INTO THE NATURE OF ETHICS FROM ANCIENT EGYPT UNTIL ITS BANISHMENT FROM WESTERN SCIENCE IN THE 5<sup>TH</sup> CENTURY AD.**

#### **THE EGYPTIAN FIRST KINGDOM Ethics derived from geometry.**

Modern science accepts that a property of fractal geometry is that it extends to infinity. However, modern science, which is governed by an inadequate understanding of the universal heat death law, forbids the living process to extend to infinity. Plato recorded his praise for the ancient Egyptian understanding of the infinite Golden Mean geometrical ratios that embraced infinite ethics. Ancient Egypt had embraced a fractal logic worldview, which contradicts modern scientific logic .

During the 1<sup>st</sup> Kingdom, the Goddess Ma'at, represented ethical values, such as harmony, balance, justice, truth, wisdom and order, all of which were linked to Egyptian Sacred Geometry. The ancient Egyptian (or Kemetic ) religion embracing Ma'at, fused geometry and trigonometry into their ethical ceremonies. Imhotep, credited with inventing trigonometry was aware of the scientific method of cosmological enquiry.

In his controversial book, *Stolen Legacy* (1954), Professor George M James argued that the ancient Negroid Kemetic creation story about universal creation was stolen by Greek philosophy. Disregarding the controversy, the fractal logic thinking involved was quite possibly shared

by Greek and Kemetic cultures. In his book, titled *A History of Science* (1959), George Sarton deals with Hellenistic science but he also argues that the ancient Kemetic theories were scientific and their priest-scientists did indeed establish the foundations of later Greek and Western science.

### **THE EGYPTIAN SECOND KINGDOM, Ethical fractal logic fused into political law.**

Professor Fekri Hassan of the Institute of Archaeology, University College London discovered that a prolonged drought completely collapsed the First Kingdom, soon after the death of King Pepy II (c. 2184 BCE). Within the BBC television documentary about this disaster, Hassan explains, that 100 years after the collapse, hieroglyphs record that the centralised government of the Second Kingdom was re-established by the people for the people. The reconstruction of centralised government occurred when the people set the condition that the ethics of social justice, mercy and compassion were to be fused into the fabric of political law.\* Fractal geometrical logic used to place ethics into religious ceremonies had now become fused into political law. This was the model used later by Aristotle when he designed his ethical practical science to guide ennobling government.

\*[http://www.bbc.co.uk/history/ancient/egyptians/apocalypse\\_egypt\\_01.shtml](http://www.bbc.co.uk/history/ancient/egyptians/apocalypse_egypt_01.shtml) (Date accessed February 2010)

The Fall of the Egyptian Old Kingdom

*By Professor Fekri Hassan*

*Last updated 2009-11-05*

BBC Ancient history in-depth

### **THE ANCIENT GREEK PLATONIC TRADITION OF PHILOSOPHY, studied from an overview of its basic axioms and the grave social implications in producing inadequate Ph.Ds constructed upon an ignorance of fractal life-science mathematical logic**

The Platonic tradition of Greek Philosophy can be considered to have been seriously contaminated by the Roman Church during the 5<sup>th</sup> Century AD.

The Stanford Encyclopaedia of Philosophy lists Plato:

“Plato (429–347 B.C.E.) is, by any reckoning, one of the most dazzling writers in the Western literary tradition and one of the most penetrating, wide-ranging, and influential authors in the history of philosophy.”

During the 6<sup>th</sup> Century BCE the Greek philosopher, Thales, went to Kemet (later Egypt) to study fractal logic life-science ethics, metaphysics, mathematics and astronomy. He considered that the universe was infinite and alive and, according to the author of the early history of geometry, Proclus, brought geometry back to Greece. Some of Thales’ theories were used by Democritus to develop an atomic physics worldview. This worldview was revived by the scholar, Al-Ratzi, during the 9<sup>th</sup> Century AD. The great scientific thinker, Anaxagoras, provided Democritus with atomic concepts, having constructed the concept of the Nous as a whirling force acting upon primordial particles in space to make the worlds (gravity) and also to evolve ethical human consciousness (compatible with David Bohm and Karl Pribram’s universal holographic reality).

Thales’ pupil, Anaximander, also held that the universe was infinite and developed an appropriate cosmological mathematics, in order to argue his case. In the 4<sup>th</sup> Century BCE the mathematician Archytas constructed antiquity’s most compelling argument, demonstrating that the universe was infinite. Archytas and Plato were mathematical colleagues. Plato considered that ethical behaviour reflected the good of the universe, linking human destiny with cosmic harmonics. It is important to realise that the Platonic tradition of Greek philosophy centred around fusing ethics into the reality of Anaxagoras’ Nous by using infinite fractal geometrical logic.\* This was in complete defiance of Saint Augustine’s fusion of the

\*<http://plato.stanford.edu/entries/plato-ethics/>

#### **Plato's Ethics: An Overview**

First published Tue Sep 16, 2003; substantive revision Fri May 29, 2009

“the ‘Forms’ - the true nature of all things, culminating in the Form of the Good as the transcendent principle of all goodness. Moral values must be based on an appropriate political order that can be maintained only by leaders with a rigorous scientific training.”

Platonic tradition of Greek philosophy into the religion of the New Testament, as is listed in Encyclopaedia Britannica. This is because Augustine held such mathematics to be the work of the Devil. Therefore any subsequent attempt to correct this erroneous situation within Western science became heresy.

Pythagoras, following the advice of Thales, went to Kemet to study ethics associated with universal harmonics. Pythagoras developed his Music of the Spheres theories, which were shared with Plato. Aristotle was influenced by their theories and although he considered that the universe has no beginning and is eternal he developed complex mathematical ideas, challenging Plato's concept of infinity, which excluded the concept of time. Aristotle, mindful of the Egyptian use of geometrical logic to fuse mercy, compassion and justice with politics, linked ethics with physics to design a practical science to guide ennobling government, in which civilisation might be able to harmonise with the universe in order to avoid extinction.

Epicurus, in the 3<sup>rd</sup> Century BC fused atomic movement with the celestial Music of the Spheres to establish *The Science of Universal Love*. A not unreasonable suggestion can be made how this concept of science occurred. The objective of the Platonic tradition to fuse ethics into the Nous involved the Music of the Spheres transmitting ethical evolutionary information to the human metabolism through the physics forces of harmonic resonance. Epicurus added love to the Egyptian compassion, in which the atoms of the soul resonated to the Music of the Spheres' wisdom. The harmonic movement of the moon might be considered to influence the female fertility cycle, explaining the existence of a mothers love and compassion for children.

**CICERO, the Roman historian complains about teaching the science of universal love throughout Italy.**

During the 1<sup>st</sup> Century BCE the Roman historian, Cicero, may have exaggerated but he recorded that the 3<sup>rd</sup> Century BCE Epicurean *Science of Universal Love* was being taught throughout all of Italy and across to Turkey. He recorded that the teachers of that science were called saviours and it can be considered this title was associated with preventing the

emergence of the destructive evil of unformed matter from the atom.\*

Lifetimes of investigation have been employed in the attempt to gather pragmatic scientific evidence from the vast, confusing melting pot of ideas that formed the basis of ancient Greek Atomistic science philosophy. Much of the ancient records were systematically destroyed as heretical writings. Rather than attempting to examine each individual viewpoint within such a turbulent pagan structure, an overview, constructed upon basic philosophical axioms can be employed to bring into focus, for instance, the nature of Aristotle's ethical practical science designed to guide ennobling government.

Mention is made about the teachings of Epicurus because during the 18<sup>th</sup> Century they greatly influenced the Masonic understanding of ancient Greek philosophy in association with the construction of the United States of America, mentioned in this paper.

\* Kamtekar, R. 2002, Epicurus and Lucretius: basic principles.

.Epicurus' influence spanned as far as Turkey and it took over 'all of Italy' (in the exaggerated report of Cicero) in the first century A.D. Note: Cicero's report was written in the 1st Century BCE as he died in 43 BCE.

### **The banishment of Greek fractal life-science mathematical logic during the 5<sup>th</sup> Century**

Edward Gibbon's book, *The Decline and Fall of the Roman Empire*, shows that he considered that the Dark Ages for Western civilisation began in the year 415 with the murder of the custodian of the Great Library of Alexandria, the famed philosopher, mathematician and scientist, Hypatia. Historical records reveal that Hypatia had been much loved as an epitome of gracious femininity. Her rape and murder by torture by a Christian mob may possibly have been instigated due to reasons related to political turmoil in Alexandria. However, it expressed engendered hatred by the Church toward women, which was to greatly influence the development of horrific Angel physics legislation during the 14<sup>th</sup> Century.

As aforementioned, Encyclopaedia Britannica's listing of Saint Augustine,

advises that during the 5<sup>th</sup> Century his mind was the crucible which most completely fused the Platonic tradition of Greek philosophy into the religion of the New Testament, and that this later influenced both Catholic and Protestant worldviews. The record of Saint Augustine's condemnation of Hypatia's fractal mathematical thinking provides certain evidence needed to demonstrate when fractal life-science mathematics was banished from the Western worldview.

It is recorded for posterity that Augustine, at the time of Hypatia's demise, declared her mathematics to be the work of the Devil.

“The good Christian should beware of mathematicians and all those who make empty prophecies. The danger already exists that the mathematicians have made a covenant with the devil to darken the spirit and to confine man in the bonds of Hell.”  
Saint Augustine

**The ramifications of the Roman Church's substitution of fractal logic life-science with dogma led to the suppression of Sir Isaac Newton's balanced physics worldview.**

In the 13<sup>th</sup> Century an attempt was made by the Franciscan Monk, Roger Bacon, to correct Saint Augustine's tragic error. Roger Bacon entered Oxford University at the age of 13, where he studied for 8 years. He made mention of flying machines, propulsion of ships without rowers, vehicles that would move rapidly without horses and a small device that could lift very heavy weights. Leonardo da Vinci later became well aware of the origins of such knowledge and, for several years, he used the Mind Optics theories of Al Haitham, before converting to the optics of the eye creating a worldview, which had been classified as ignorant by Plato and Philo.

During the Golden Age of Islamic Science in the 13<sup>th</sup> Century Translator School - Toledo, Spain, Muslim, Christian and Jewish scholars worked together to research the lost Greek Fractal logic life-science. This was a more scientific and less dogmatic attempt than the one St Augustine had employed. A more learned understanding of the fractal life-science optics

was obtained by Roger Bacon, whom history has associated with the scholars of the order of the Knights Templar. His key to the Fullerene optics was introduced in vain to Western science during the 18<sup>th</sup> Century.

Robert Briffault in his book the *Making of Humanity*, wrote:

“Roger Bacon was no more than one of apostles of Muslim Science and Method to Christian Europe; and he never wearied of declaring that knowledge of Arabic and Arabic Sciences was for his contemporaries the only way to true knowledge. Discussion as to who was the originator of the experimental method....are part of the colossal misinterpretation of the origins of European civilization. The experimental method of Arabs was by Bacon's time widespread and eagerly cultivated throughout Europe.”

It can be considered from the records about Roger Bacon that he was familiar with the Knights Templars' objective, associated with Islamic optics, related to an ancient lost science. The Templars' heirs, Freemasonry, published literature during the 20<sup>th</sup> Century, citing that the loss of this science's Constructive Principle in nature had brought into existence its opposite, the Principle of Destruction, which, in modern science is known as the second law of thermodynamics.\*

C P Snow and Buckminster Fuller warned that unless the ancient Greek Humanities, which is a fractal life-science, is reunited with modern science, in defiance of an inadequate understanding of the second law of thermodynamics, then civilisation as we know it will be destroyed. The following will demonstrate, beyond all doubt, how the very scientific basis of liberty within our democratic culture is collapsing into chaos.

\* Steinmetz, G. 1948, *Freemasonry its Hidden Meaning*.

“Our quest is for the re-discovery of something lost. It is the knowledge of the two-fold principle in nature and specifically, knowledge of the modus operandi of the Constructive Principle. The loss of the knowledge of the Constructive Principle in nature brought into man's existence its opposite, the Destructive Principle.” The Destructive Principle in modern science is called the second law of thermodynamics.

Plato's axiomatic ‘That all is Geometry’, concepts of ethical physics



principles, and Aristotle's idea of a practical science to guide ennobling government, were applied during the 18<sup>th</sup> Century, to construct a practical basis for 'Liberty' within the Constitution of the United States of America.

In his summary of the 85 essays published in the New York Times to encourage the people of America to vote for the Constitution, Alexander Hamilton, one of its founding fathers, defined liberty as follows:

“Liberty is ensured, not by civic virtue but by the design of government itself, which, in turn, rests upon the principles of physics and geometry.”\* (Note: this definition of liberty was unsatisfactory to President Woodrow Wilson, as has been explained).

However, the physics principles used to draft the Constitution belonged to Sir Isaac Newton's published papers and the geometrical principles were those of Euclid. Neither of these principles belonged to the lost Greek culture that C P Snow and Buckminster Fuller warned must be reunited with modern science in order for civilisation to survive.

During the 20<sup>th</sup> Century Sir Isaac Newton's unpublished “more profound natural philosophy to balance the mechanical description of the universe” was discovered. The physics principles upholding it were the same ones that once upheld the Classical Greek Humanities fractal life-science culture, which C P Snow and Fuller wanted to be reunited with modern science. Therefore, a serious scientific error had occurred. The concept of liberty, within the Constitution of the United States of America, had been constructed upon false physics assumptions, based upon a religious denial of Classical Greek fractal logic life-science.

\*Diggins, J. P. Nov/Dec 1987, *Science and the American Experiment – How Newton's Laws Shaped the Constitution*. Diggins quotes from one of the Founding Fathers of the Constitution of the United States of America, Alexander Hamilton, demonstrating that democratic liberty had been based upon the principles of physics and geometry. Also, he states that President Woodrow Wilson's objection was that the Constitution of the United States of America had been based upon the principles of mechanical science. As has been pointed out, President Woodrow Wilson's selection of Darwinian life science would not have solved the mechanistic problem because Darwin's life science was, in itself, governed by the second law of thermodynamics, the logic of materialistic, chaotic decay.

During the 17th Century the scientist, Giordano Bruno, was imprisoned, tortured and burned alive in Rome for teaching the lost Greek science of universal love, at Oxford University. Saint Augustine's psychotic misogynist assessment of fractal logic mathematics was absorbed into the structure of Saint Thomas Aquinas' Angel Physics. From that scientific worldview arose the Papal Decree, *Malleus Maleficarum*, which legalised the imprisonment, ritualistic sadistic torture and burning alive of countless numbers of women and girls over a three hundred year period, well into the 17<sup>th</sup> Century, of Sir Isaac Newton's time.

This explains why Sir Isaac Newton did not dare to publish his more profound natural Platonic philosophy. Philosophically, Newton would have been ruined. For example, even last Century the eminent Cambridge University philosopher of antiquity, F M Cornford, in his book *Socrates and Beyond*,\* stated that Plato and Aristotle were among the greatest fathers of the Christian religion. This illogical concept exists up until the present time, explaining why some scientists classify Newton's balancing physics as a criminally insane heresy, even though aspects of it are applied at the cutting edge of quantum biological research.

Fractal Logic, arguably the greatest geometrical discovery in human history, was discovered in 1980 by Benoit Mandelbrot. Obviously, in order to extol the basis and fulfil the promise of The Great American Dream, fractal geometrical logic must now be included into the fabric of Western Democracy. As science stands today it cannot serve democracy. Instead, it now serves plutocracy, degenerating towards the chaos of global kleptocracy. Historically, this leads to the collapse of civilisation as warned of by C P Snow. Scientists are beginning to realise that the stakeholders in global technological development are now systematically ensuring the destruction of democracy, as well as the fundamentals that sustain life.

\*Cornford, F. M. 1932, *Before and after Socrates*. Cambridge University Press. p. 65.

The Australian newspaper in 2006 featured a *Higher Education* article about this issue entitled *Muzzling of Science*.<sup>\*</sup> The paper was written by the influential Australian prize winning science communications journalist, the editor of the R&D REVIEW, Professor Julian Cribb of the Sydney University of Technology. The paper was about Australian scientists rebelling against the tyranny of the stakeholders in global technology using covert and overt pressures to compel Australians to accept a false and fanciful worldview reality. Professor Cribb compared this form of government to the equivalent of a crude Third World dictatorship. It may be further noted herein that this fixed worldview remains governed by the second law of thermodynamics.

<sup>\*</sup><http://www.onlineopinion.com.au/view.asp?article=4264> (accessed Feb 2010) Muzzling of Science by Prof. Julian Cribb “This process of keeping science from the public and the network of threats - overt and implied - that protects it is undermining democracy.”

### **Nuclear Warfare and fractal logic life-science consciousness**

An even more serious proposal, taken from Plato’s *Timaeus*, surely warrants investigation. Plato wrote “since evil, whatever it may be, is more or less inherent in the nature of matter and can never be totally abolished”. Several other philosophers such as Philo, Hesiod, Plotinus and Hypatia referred to such evil in nature as ‘unformed’ matter within the atom. Since the Greek atom was physically indivisible, the destructive property of unformed matter within the atom can be considered to refer to nuclear atomic radiation, which a society that knows only entropic means for technological development must crave and is prepared to risk, as a last resort in attempting to satisfy its needs.

The Greek concept of unformed matter goes back to 800 BCE when Homer wrote about it. Thomas Hobbes, who studied classics at Oxford University wrote, “The unformed matter of the world was a god, by the name of Chaos“. In Milton’s *Paradise Lost*, Chaos was hostile to God and Creation. To the Max Plank Institute’s Astrophysicist, Peter Kafka, Chaos, as the second law of thermodynamics was once called Diobolos and Lucifer.

Hypatia's mathematics considered the evil of unformed matter within the atom, but Saint Augustine's translation of that evil, within his Confessions, appears to translate it as an evil associated with female sexuality. This translation can be considered to have influenced the horrific persecution of women and girls associated with history's Doctor of Science, St Thomas Aquinas' Angel Physics, from the mid 14<sup>th</sup> Century to the mid 17<sup>th</sup> Century. It can be considered that modern Western science remains distanced from investigating any social psychological relationship between modern chemistry, which is based upon the logic of universal atomic decay chaos and the present threat to civilisation posed by the proliferation of nuclear weapons.

The Nobel Laureate Szent-Gyorgyi's concept of the evolution of consciousness existing as a balance to the energies of the law of universal chaotic destruction, the second law of thermodynamics, is now basic to modern quantum biological research. Science's obsession with the second law might explain both the existence of weapons of mass destruction and also an emerging awareness of new technology's ability to neutralise that threat.

### **Ph.Ds with no fractal life-science mathematical substance**

Modern science, under pressure from economic rationalism, should not be too harshly judged for considering that ethics is only about how one uses science, rather than having a biophysical basis. The idea of what the letters Ph.D stand for in science simply can no longer be taken seriously. A doctorate of philosophy, in relation to studying the Classical Greek Era's life-science, is not only in defiance of the second law of thermodynamics, but to sieve through the huge melting pot of its Atomistic arguments is well beyond the time allocated to obtain a modern doctorate.

Furthermore, a system of university supervisors to monitor the doctorate process no longer exists. However, from time to time, scientific discoveries are made that can be electronically collated to streamline this traditional Ph.D. institution bringing it into focus with the fractal life-science associated with Fullerene logic.

Students today are becoming concerned about Ph.D supervisors persuading them into careers that have a non inspirational and a limited shelf life. Given access to a recognised university facility that can electronically assess this upgrading of the new C Sixty Inc's philosophical potential, young students would be inspired to forge ahead into a scientific world of practical wonderment.

For example, in 1972, Dr Candace Pert discovered the human 'Molecule of Emotion' with the same molecule existing within a simple cell life form. The molecule's evolutionary development is simultaneously accompanied by the development of the human endocrine system. Both depend upon an increase in the speed of the molecule's movement. This recognised process echoes aspects of the primitive Music of the Spheres life-science and is compatible with the theories of those scientists, such as Stanford's Andrei Linde, that hold the universe to be an eternal fractal expression. University supervisors with access to electronic evaluations of this and other such numerous examples of how to marry the Ph.D institution with fractal life-science logic, will become better able to breathe new sustainability into our educational system.

As previously mentioned, Harvard University's Novartis Professor, Amy Edmonson, explained that Buckminster Fuller realised that Plato referred to two distinct branches of engineering, a more profound spiritual (holographic) branch coexisting alongside materialistic engineering.

## **THE OPTICS OF MIND VISION PHYSICS AND MODERN DEMOCRACY**

Greek fractal life-science theories were explored during the Golden Age of Islam at the Translator School in Toledo, Spain, during the 11<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> Centuries. This Islamic Renaissance was transferred to Florence, Italy in the 14<sup>th</sup> Century by the Medici Scholars with the assistance of Sultan Memhed II. As mentioned, Roger Bacon, in the 13<sup>th</sup> Century had used Islamic optical science to instigate an attempt to rid Humanity from the yoke of the Principle of Destruction, the precursor to the second law of thermodynamics. Plato and Philo's mind vision optical theories, upgraded

by the father of optics, Al Haitham, in the 11<sup>th</sup> Century, was a source of technological knowledge incorrectly utilised by Leonardo da Vinci's optics.

## **Da VINCI, DESCARTES AND SIR FRANCIS BACON** **The pivotal figures of the mechanical industrial age**

The official destruction of the original Western science had occurred in 529 when the Emperor, Justinian I, closed down the Athenian Academy. Then, following the exile of Greek scholars from the Roman Empire, Greek fractal logic optics was examined by such Islamic scholars as Al Haitham, who repeated Plato and Philo's warning that to use the eye as the source of all knowledge would lead to an ignorant and limited worldview.

As is mentioned earlier, Leonardo da Vinci changed his mind and placed the human eye as the key to his *Theory of Knowledge*. Descartes followed suit and Sir Francis Bacon within his *The Great Instauration* (1620), wrote; that "all depends upon keeping the eye steadily fixed upon the facts of nature and so receiving their images simply as they are. For God forbid that we should give out a dream of our imagination for a pattern of the world; rather may he graciously grant to write an apocalypse or true vision of the footsteps of the Creator imprinted on his creatures."

The optical science foundations of the American industrial Age had been firmly set into place. Thomas Jefferson, one of the principle architects of the Constitution of the United States of America, was guided by the thoughts of Sir Francis Bacon, Sir Isaac Newton and John Locke, whom Jefferson considered to be the three greatest men in the history of the world.\* John Locke, echoing Bacon's optical theories, held that science is the method of understanding reality based upon observations made through the senses.\*\* Western society's access to fractal logic life-science ethics,

\* Jefferson, T. January 16, 1811, Letter to Dr. Benjamin Rush Monticello.

"...Bacon, Newton and Locke, Hamilton asked me who they were. I told him they were my trinity of the three greatest men the world had ever produced..."

\*\*Mathew Elton, *John Locke*, 2007, "Locke argued that science is the method of understanding reality based on observations made through the senses."

banished by St Augustine in the 5<sup>th</sup> Century, had prevented Sir Isaac Newton's more profound fractal logic worldview from emerging into Thomas Jefferson's scientific focus. This optical science disaster is so entrenched that its error is held by modern science today as a great milestone in Western scientific achievement.

During 1999 at the University of Dublin, eminent professors of philosophy compared Al Haitham's 'Mind Vision Optics' with Descartes' 17<sup>th</sup> Century optical theories, praising the latter worldview as a more practical Western 'Scientific Revolution in Optics'. The work of the scholar, al Ghazzali, who was critical of Plato's philosophy influenced Descartes science of optics. Descartes' optical revolution is still held to have upgraded an aspect of Islamic optics into the modern world of science, when, in fact the reverse is true. Buckminster Fuller's Classical optical engineering principles, developed from Plato's spiritual optics engineering principles have now been upgraded to function within a holographic fractal life-science reality.

**PRESIDENT THOMAS JEFFERSON, As a Freemason, inherited the religious theories of the Knight's Templar, which argued against the mistranslation of Greek life-science by Saint Augustine.**

The scientific influence of the Franciscan monk, Roger Bacon, combined with the Templar's discovery of Philo's scrolls, convinced Templar scholars that Jesus Christ was the greatest 'Saviour' teacher of the Epicurean atomistic science of universal love. From the American Congressional library, letters from Jefferson argued that the greatest of the ancient Greek scholars was Epicurus and that the epitome of his teachings was that taught by Jesus Christ.\* If this is correct then such teachings are based upon fractal life-science logic.

\*Jefferson, T. 1819.

In his letter to Edward Dows. 19th April, 1803, Jefferson assesses the teachings of Jesus Christ as being "more pure, correct, and sublime than those of the ancient philosophers". In his letter to Charles Thomson, January 9, 1816, he writes "I consider the genuine (not the imputed) doctrines of Epicurus as containing everything rational in moral philosophy which Greece and Rome has left us".

The Smithsonian Institute actually published the Jefferson's Bible with the original publication being housed in the American Congressional Library. As noted above, in the mid 20<sup>th</sup> Century, Freemasonry published that its objective was the rediscovery of a lost ancient science. That science was the aforementioned one associated with Roger Bacon's Islamic studies in which the Principle of Construction was to be balanced by the Principle of Destruction (the second law of thermodynamics) in order to free humanity from its destructive yoke.

Thomas Jefferson's placing of the Egyptian All Seeing Eye upon the Great Seal of America did not correctly represent the balancing energies associated with a universal creative physics energy system. Sir Isaac Newton's more profound natural philosophy of science, embraced Roger Bacon's optical science legacy to 20<sup>th</sup> Century Freemasonry, but it had been lost in mistranslation. Da Vinci's use of the eye as the source of all knowledge was successfully modified by Robert Pope to predict a vast new science and technology based upon the fractal life-science logic associated with the functioning of liquid crystal optics.

## **THE SECOND LAW OF THERMODYNAMICS and how it came to govern all life sciences as well as modern global economic rationalism.**

Aristotle's ethical fractal science to guide ennobling government had nothing going for it in the 18<sup>th</sup> Century's race for global economic power. North American industrialisation spread across the globe like wildfire, carrying with it the dehumanising effects leading to a world of William Blake's Dark Satanic Mills of Albion, in which he wrote, "And all the Arts of Life they changed into the Arts of Death in Albion".

During the late 18<sup>th</sup> and early 19<sup>th</sup> Century the Reverend Thomas Malthus, as the director of economic and political policies of the powerful East India Company, instigated aspects of St Thomas Aquinas' 14<sup>th</sup> Century Angel Physics, about who were fit to eat at the table of the Lord, into his Population Essay. This elitist survival of the fittest concept was used to advance the political power and economic efficiency of that company.



Charles Darwin, employed by the East India Company, used Malthus' Population Essay as the basis for his survival of the species theory. At that time there was no distinction between mechanical and biological evolution.

“I happened to read for amusement Malthus on *Population*, and being well prepared to appreciate the struggle for existence which everywhere goes on from long-continued observation of the habits of animals and plants, it at once struck me that under these circumstances favourable variations would tend to be preserved, and unfavourable ones to be destroyed. The result of this would be the formation of a new species.”

Charles Darwin, from his autobiography. (1876)

Sadi Carnot's second law of thermodynamics, explaining scientific principles of the steam locomotive energy cycle was published in 1824, becoming vital to railroad and steam shipping expansion of the East India Company's economic power. By the 19<sup>th</sup> Century, the Carnot steam engine law had become synonymous with the process of biological evolution within the mechanistic industrial era. The second law of thermodynamics became basic to global economic power and whoever gained the upper hand with that technology could maintain the implementation of their own particular interpretation of religious purpose.

Global economic rationalism continues to run amok under the umbrella of Einstein's Premier Law of all of the sciences. Efforts to create separate thermodynamic classifications for various economic activities are not removing its overall entropic acceleration towards social chaos. The economist, M. J. Klein, refers to Einstein's definition of the second law of thermodynamics to substantiate entropic thermodynamic economics\* while other eminent scientists regard economic activity as an evolutionary

\*Albert Einstein, quoted in M.J. Klein, '*Thermodynamics in Einstein's Universe*', in Science, 157(1967), p.509 and in Isaac Asimov's Book of Science and Nature Quotations, p.76

process governed by the second law of thermodynamics.\*\*

The director of the Program for the Human Environment at Rockefeller University, Jesse Ausubel, is critical of the Malthusian worldview and presents arguments that are a mirror image of Malthus' doomsday proposition about exponential population growth based upon second law logic. Professor Ausubel notes that ideas grow much faster than population and his data in defence of democratic wellbeing, when wedded to the NASA HIGH ENERGY PROJECT, becomes relevant at the cutting edge of quantum biological research. His vision that "Misery is not the inevitable lot of humanity, nor is the ruin of the natural world a foregone conclusion" suggests a futuristic fractal logic economics and supra-futuristic technologies. If the United States of America allows such scientific discussion to eventuate then a new message of global hope will prevail.

\*\*<http://www.physorg.com/news176365278.html> PhysOrg.com) -- Terms such as the "invisible hand," laissez-faire policy, and free-market principles suggest that economic growth and decline in capitalist societies seem to be somehow self-regulated. Now, scientists Arto Annala of the University of Helsinki and Stanley Salthe of Binghamton University in New York show that economic activity can be regarded as an evolutionary process governed by the second law of thermodynamics.

## **THE DISCOVERY IN AUSTRALIA OF CREATIVE PHYSICS LAWS**

**Based upon a research program instigated by  
China's most highly awarded physicist, Kun  
Huang**

**THE SCIENTISTS-PROFILES OF DISCOVERY, Pope the Catalyst**

In 1978 the Australian Foreign Affairs Department arranged for Princeton University' astrophysicist, Remo Ruffini, to visit the artist Robert Pope

during his Residency at Adelaide University. The Science Unit of Australian National Television made enquiries about this and then conducted an investigation into his Science-Art theories. Pope was found to be in contact with scientists from around the world in his attempt to upgrade C P Snow's argument that the Classical Greek worldview should be reunited with modern science as a matter of great urgency.

The following year the Australian Broadcasting Commission included Pope's work into their international eight part television series *The Scientists-Profiles of Discovery, Pope the Catalyst*. His documentary argued that the fate of civilisation depended upon balancing the second law of thermodynamics with what he called a Creative Physics. Robert Pope's theories caused a great storm of outrage from within both the Australian scientific establishment and the South Australian Arts establishment.

The furore of hostility that erupted over Pope's documentary so overlapped its hand that the Australian Commonwealth Department of Trade and Export Development was obliged to investigate it in order to prevent an international scandal. As a result of the investigation the artist was awarded a grant to supplement his appointment by UNESCO to attend the 2<sup>nd</sup> Marcel Grossman Meeting on General Relativity in Trieste, as a Special Science-Art Delegate from Australia. The Governmental acknowledgement that it was Pope's objective to bring to Australia knowledge of a new supra-technology based upon modifications to Einstein's *Premier law of all science*, provided a future legal protection against incompetent university assessments, hostile to his daring to question the validity of Einstein's worldview.

## **THE GENIUS OF KUN HUANG**

At the International Centre for Theoretical Physics in Trieste, the Head of the Chinese Solid State Physics Delegation, Kun Huang, agreed with Robert Pope that Einstein's worldview should indeed be balanced by the geometrical logic that upheld the Classical Greek life-science. Huang proposed how new physics laws governing optimum biological growth and development through space-time could be deduced. The Greek life-science

culture had been based upon the Golden Mean geometrical forces guiding healthy evolutionary development through time. Therefore, Professor Huang argued, that by observing evolutionary Golden Mean patterning changes recorded within the world's seashell fossil record, the new physics law might become apparent.

### **CHRIS ILLERT**

#### **mathematician of the Australian Science-Art Research Centre**

Returning to Australia, Robert Pope established his Science-Art Research Centre in order to expedite Huang's proposed research program. During the 1980s several seashell life-energy papers from the Centre, written by its mathematician, Chris Illert, were published by Italy's leading scientific journal, *Il Nuovo Cimento*. Two of the papers showed how geometrical concepts from the Italian Renaissance were employed to generate a rigorous simulation of a living seashell creature. By altering the musical construction of the (Fullerene Music of the Spheres) prime equation, a perfect simulation of the living animal's 20 million year old fossil ancestor was obtained. By lowering the order of the prime equation by a lesser harmonic, the computer generated a simulation of a famous fossil creature discovered in Japan in 1904. Chris Illert became the first scientist in the world to link this fossil, named *Nipponites Mirabilis*, to a modern day living creature.

Chris Illert's famous discoveries were selected as important discoveries of the 20<sup>th</sup> Century and were reprinted by the IEEE SPIE Milestone Series in Washington, the journal of the world's leading technological research institute.\*

\*Illert, C. 1987, The New Physics of Ultrathin Elastic Conoids, *Il Nuovo Cimento*, and Formulation and Solution of the Classical Seashell Problem II Tubular Three Dimensional Seashell Surfaces. *Il Nuovo Cimento*, 1989 The Science-Art Centre...selected from the World literature for reprinting in Spie Milestone series, Vol. MS 15, selected papers on Natural Optical Activity, pages 12-23 and 24-33, section one. Chirality and Optical Activity, 1990.

## RUGGERO SANTILLI

Professor Ruggero Santilli, Director of the Institute for Basic Research in Florida, realised the most important physics implication involved with Illert's mathematics.\* In 1995 Illert's work on new optical science won an international Biology Prize, peer reviewed for the discovery of the new physics laws governing optimum biological growth and development through space-time as had been predicted by Kun Huang. From Robert Pope's perspective, Professor Santilli's rigorous observation that Euclidean geometries could only extrapolate deformed biological growth through space-time was crucial to C P Snow's concern about the inadequate understanding of the second law of thermodynamics in relationship to the Classical Greek fractal logic life-science optics. It can be deduced from Santilli's mathematical observations that current science, unable to generate healthy biological growth and development through space-time was in effect, participating in some cancerous evolutionary process.

\*Illert, C. and Santilli, R. M. *Foundations of Theoretical Conchology*, 2nd Ed 1995. Istituto per la Ricerca di Base, Italy and Institute for Basic research, Florida.

### **THE FRACTAL LOGIC OF DR GEORGE ROBERT COCKBURN**

The Centre's Bio-Aesthetician, the late Dr George Cockburn, Royal Fellow of Medicine (London) when he was working with Chris Illert realised the importance to medical science of Illert's work. Cockburn, in 1984 published a book entitled *A Bio-Aesthetic Key to Creative Physics and Art*. A review of the book in 2008\*\* noted that Cockburn's correction of Kant's Aesthetics - or art appreciation theory, into an art appreciation fractal optical physics was compatible with the correction of Kant's Aesthetics by the 19<sup>th</sup> Century mathematician, Bernard Bolzano.

As already mentioned, an appraisal of the logic used by Bolzano to construct his *Theory of science* made by Edmund Husserl in his *Logical*

\*\**Christopher Degenhardt, Feminine Ethics in the New Measurement of Humanity, A Review of Dr George R Cockburn's Book A Bio-Aesthetic key to Creative Physics and Art (1984). Published by The Escape Gallery, Murwillumbah, Australia, March 2008.*

*Investigations - vol I - Prolegomena to a pure logic* (1900) proclaimed Bolzano as one of the greatest logicians of all time. Recently, German scientists rediscovered Bolzano's logic and extrapolated his life-science logic into a modern fractal worldview, echoing George Cockburn's own cerebral optics observations.

## **LEONARDO Da VINCI'S THEORY OF KNOWLEDGE successfully altered by Robert Pope**

In 1986, Dr Cockburn assisted in obtaining a residency at the University of Sydney for Robert Pope, allowing him to work alongside a cancer research team. At the university Pope used Dr Cockburn's cerebral optics to successfully modify Leonardo da Vinci's *Theory of Knowledge*. He replaced Leonardo's use of the eye as the key to all knowledge with Cockburn's fractal life-science optics, excited into functioning when the sperm contacted the liquid crystal surface of the ovum. In 2007 Robert Pope and Mark Robinson's space-time model derived from Cockburn and Illert's research was referred to in the text of a quantum biology paper about the functioning of the mind and the brain, in defiance of the obsolete comprehension of the second law of thermodynamics.\*

In 1991 the Nobel Prize in Physics was awarded to Pierre de Gennes for his work on liquid crystal optics, the work giving credence to Pope's correction of da Vinci's work. In 1992 the principal discoverer of a vast new science and technology developed from de Gennes' work, wrote that Robert Pope had independently predicted such technology. Professor Barry Ninham also wrote that the work of Pope's Centre encompassed a revolution of thought as important to science and society as the Copernican and Newtonian revolutions.

\*Huping Hu and Maoxin Wu, *On Dark Chemistry, What's Dark Matter and How Mind Influences Brain Through Proactive Spin*, NeuroQuantology, June 2007, Vol. 5, Issue 2. p.209 "Of course, other authors probably have already expressed similar views from different angles or perspectives (see, e.g. Pope & Robinson, 2007)"

## **FRANCESCO FUCILLA**

Professor Francesco Fucilla founded the Telesio-Galilei Academy of Science in London in order to demonstrate that “quantum physics and relativity must be upgraded to revive the human spirit and our world with it.” At an international medical conference at Yalta, Crimea, in 2009, the Academy awarded Robert Pope a Gold Medal Laureate for his successful modification to Leonardo da Vinci’s Theory of Knowledge.

The Head of Moscow University’s Biological Research, Professor Simon Shnoll received his Gold Medal Laureate for his research discoveries, following his impassioned address on the global importance of Giordano Bruno lecturing about the ancient science of universal love at Oxford University, for which Bruno paid with his life. Professor Shnoll and his team had found evidence from data depicted as histograms, that implies that the source of the structure of time segments is informational, and considered to be compatible with the evolution of consciousness theories of the Nobel Laureate of Medicine, Szent-Gyorgyi.

## **PAUL WILDMAN**

During 1995 an assessment of the Science-Art Centre’s theories by a major Australian University with regard to an application to the Australian Government to be awarded ‘An Approved Research Institute Status’, was rejected on the grounds that, while not factually erroneous the theories were inconceivable, due to the challenge to the universal supremacy of the second law of thermodynamics. Enough evidence was, however, presented to the contrary so that the Federal Minister in charge of the Department of Employment, Education and Training, The Hon. Simon Crean, had the assessment overturned as incompetent.

In 1996 the Centre’s Director, Robert Pope wrote an open letter to the Secretariat of the United Nations, claiming that the Australian educational system was unintentionally committing a major crime against humanity by endorsing an inadequate understanding of the second law. The complaint was discussed at the United Nations University in Washington and was referred onto the United Nations University Millennium Project-

Australasian Node Co-Chaired by the economist Dr Paul Wildman.\*

Following several years of peer reviewed investigation the claim was endorsed as being valid. Pope's theories were included into a Tertiary Educational course endorsed by the United Nations and in 2006, Professor Robert Pope was awarded A Decree of Recognition from the United Nations University Millennium Project's Australasian Node.

\*Robert Pope, Art, Atomic Physics and Human Survival – An open Letter to the Secretariat of the United Nations and to the Aust. Federal Minister for Communications and the Arts, the Hon, Richard Alston, A Science-Art Research Centre of Australia publication, 1996. National Library Canberra Australian Citation RECORD 2645463

### **MYRONE EVANS**

For most of the 20<sup>th</sup> Century, any scientific criticism challenging Einstein's understanding of his premier law of all of science was not tolerated, and could not be published in an influential journal of science. It is now rather important that the Humanities should learn that distinguished scientists exist, whose modifications to Einstein's understanding of the second law of thermodynamics are now being published in accepted scientific journals throughout the world. It is to be expected that scientific controversy would arise when such a thing occurs, but it can now be stated that such controversial publications are attracting an increasing number of scientific supporters worldwide.

Lord Bertrand Russell's certitude that the philosophies underpinning the 20<sup>th</sup> Century's understanding of the second law of thermodynamics, "if not quite beyond dispute, are yet so nearly certain that no philosophy which rejects them can hope to stand", is no longer acceptable. The Welsh scientist, Myrone W. Evans, is one of the world's leading protagonists in applying modifications to Einstein's energy theories, and his interest in the Humanities have become a symbol of optimism, replacing the Nobel Laureate Bertrand Russell's utter pessimism. The Royal Society of Chemistry awarded Myrone Evans' the Harrison Memorial Prize in 1978 and the Meldola Medal in 1979 and in 2009 he was awarded A Telesio-Galilei Academy of Science, London, Gold Medal Laureate.



# **THE SOLUTION**

## **EXTENDING HUANG'S RESEARCH PROGRAM**

### **from seashell life-forms to encompass the computer generation of futuristic human survival simulations.**

**The application of the Science-Art Centre's peer reviewed discovery of new physics laws governing optimum biological growth and development through space-time, is not restricted to seashell evolution, but applies directly to healthy human evolution.**

Mainstream science's denial that a fractal logic life-science can exist is no longer enforced so much through religious persuasion, but by virtue of the greed energy law, as Maria Montessori's defined the second law of thermodynamics. C P Snow's observation that the existing inadequate understanding associated with that law can destroy civilisation, is now unquestionable. A cloud is a fractal expression and climate change is about a global life-science. Unless both concepts are reunited then we will inherit the economic chaos that Montessori argued against.

The Copenhagen conference on climate change, forbidden by the second law of thermodynamics to even consider linking climate change with any fractal logic life-science, is a prime example of what Snow warned about. The traditional solution to limited food and fresh water supplies due to overpopulation of a species, is a culling of that population. Now, due to the problem of human populations evidently being in short supply of resources and lacking a life-science to demonstrate a superior ethical solution, culling of humans will take place. Under such circumstances, this would be condoned as a natural solution by those scientists who continue to deny compassion as a physics life-science phenomenon.

Of particular importance to the Science-Art Centre's Director, Robert Pope, has been the 'ethical' technological solution to the global overpopulation problem. Buckminster Fuller's Classical life-science worldview is now indisputably an integral part of the functioning of the Classical Greek Nous. This defines Fuller's extrapolation of the Music of

the Spheres fractal optics logic into his 'Synergetics' as existing for the benefit of the ethical evolution of humanity, once the very basis of Western science. Due to the fact that, in general, scientific research funding is made available to supply profits for the stakeholders within global rationalist economics, only pioneering research in defiance of this can present the solutions needed to develop the technologies necessary to ethically address the now anticipated lethal world food and fresh water shortages.

Maria Montessori and Tielhard de Chardin's solution was to balance the second law of thermodynamics, referred to by Montessori as the energy greed law, with a formula derived from the author of the *Nous'* functioning, Anaxagoras. His conservation of universal energy law correlates with Sir Isaac Newton's unpublished more profound natural balancing philosophy of physics. The solution to the overpopulation problem can be deduced by upgrading Montessori and de Chardin's concept of opening the Golden Gates to humanity's future. We can begin with de Chardin's fractal logic concept, that the Golden Gates cannot open for any chosen race or privileged few and link it to the Nobel Laureate Szent-Gyorgyi's concept that the balancing of the second law in energy physics, provides for the evolution of universal consciousness.

The work of the University of Helsinki's scientist and author of the book *Topological GeometroDynamics*, Matti Pitkanen, has influenced the Creative Physics research optics program developed by the Centre's Dr Cockburn. Pitkanen had advised that every 11 years the sun sends lethal balls of radiation toward the earth. The earth uses its electromagnetic hands to grasp and throw the threat to all life away into outer space, acting ethically for all life at the same time. Pitkanen noted that this phenomenon satisfied the criteria to be classified as an act of consciousness, which was relevant to opening the gates to the future. The key to doing this now can be seen to be electromagnetic, as Montessori's collaboration with Alexander Graham Bell and Thomas Edison suggested.

The Science-Art Centre's computer graphics methodology, successfully employing musical harmonics for understanding seashell evolution during the 20th Century, appeared inadequate for the generation of human survival

blueprint simulations. Robert Pope's use of Cockburn's fractal logic optics to successfully modify Leonardo da Vinci's theory of knowledge, had been based upon his aforementioned reasoning to use only general classical fractal first principle logic to deduce particular evolutionary steps in the life-science process.

Robert Pope realised that the first bone constructed within the human embryo, the sphenoid bone, was in direct electromagnetic vibrational contact with the seashell design of the human cochlea. He considered that this electromagnetic language was generated by the Fullerene optical energies associated with cellular membrane liquid crystal functioning and was therefore part of his Centre's discovery of new physics laws belonging to the Music of the Spheres transmitted by ancient seashells through space-time.

Kun Huang's research program, involving evolutionary changes to Golden Mean patterning changes within the world's seashell fossil record can now be extended to observing evolutionary patterning changes within the world's 20 million year old humanoid sphenoid (Golden Mean) fossil record.

Within the Science-Art Research Centre of Australia's research scaffolding, Fuller's negentropic energies are essential to open Montessori and de Chardin's Golden Gates to the future. The Centre's famous seashell discovery and Robert Pope's modification to Leonardo da Vinci's Theory of Knowledge linking Fullerene fractal life-science optics to liquid crystal optics, can be expressed within Bernard Bolzano's highly acclaimed logic upholding his fractal life-science world view. The Centre considers that the stage is set to now go ahead and open those gates. C P Snow's uniting of the classical humanities with the now known energies of the NASA HIGH ENERGY PROJECT can be considered to be a rekindling of the beacon of hope to the world, depicted by the Statue of Liberty.

The humanoid sphenoid fossil record shows that each time this bone changes shape a new humanoid species emerges and it is currently changing shape within human children. The discovery that the human sphenoid is currently changing its patterning shape due to the same clock spring torque forces that evolve seashell growth and development through space time means that Kun Huang's research methodology can now be upgraded to observe the influence that the electromagnetic Music of the Spheres has upon 20 million years of humanoid fossil records.

Once the electromagnetic dance of life is represented adequately within computer graphics, then it can be extrapolated through the humanoid fossil record, past the present human condition on into the future. Rigorous futuristic evolutionary survival blueprints will provide the means to quickly develop the supra-technologies required for our healthy biological growth and development through space-time. It can be considered that the medical research associated with the Canadian C Sixty INC., if based upon Fuller's development of Plato's holographic engineering optical science, can be advanced far into the future, sharing fundamental pragmatic data with the NASA HIGH ENERGY PROJECT.

It can be argued that the scientist, Richard Merrick, of the University of Texas is a world leader in researching the evolutionary processes pertinent to how the Classical Greek Era's fractal logic Music of the Spheres acts upon the sphenoid and the electromagnetic cerebral mechanisms. Such knowledge is presented in his book titled *INTERFERENCE - A Grand Scientific Musical Theory*. His understanding of the self generating biological organising forces associated with the research of Florence University's Science-Art NEW MEASUREMENT OF HUMANITY PROJECT, has been recognised by that institution.

Merrick's book is presently basic to the research conducted by the Science-Art Research Centre of Australia. Merrick's understanding of the role that liquid crystal optics plays in the human evolutionary process, echoes aspects of medical research at the cutting edge of quantum biological

research associated with the Classical Greek Era's fractal life-science.

## **A FUTURE FUNDING MODEL FOR CREATIVE PHYSICS RESEARCH**

In 1993 The International Journal for the Arts, Sciences and Technology (LEONARDO) published in its *Gateway* section an article written by the Science-Art Centre's Bio-Aesthetician, Dr George Robert Cockburn. Cockburn wrote about the Centre's research modus operandi, noting that it had been extremely successful. Also published in the same LEONARDO volume, was a paper by the Centre's director, Robert Pope, titled *A Model for the Self Funding of Ethical Science through the Arts*.<sup>\*</sup> But not until the NASA HIGH ENERGY PROJECT published the proposal that the Classical Greek Era's worldview was based upon fractal geometrical logic, could the funding model hope to come into existence.

The stone castle near Mt Warning in the panoramic Tweed Valley of Northern New South Wales, Australia has been the setting for several television documentaries. It was built by hand with stone from local quarries by three artists, Robert Pope, Robert Todonai and Irene Brown, to become the official Science-Art Research Centre of Australia. The Centre was awarded its Australian Government Approved Research Institute Status in 1995 and it was constructed specifically to become a base to help create the self-funding model published by LEONARDO.

A Robert Pope Science-Art painting that was reproduced on the front cover of the Encyclopaedia, *Artists and Galleries of Australia*, was referred to as belonging to "an unprecedented pictorial survey of most recent attitudes and consolidated values", by the former Chairman of the Australian Visual Arts Board. Both Robert Pope and Robert Todonai have exhibited internationally, including in Hollywood and at the Dyansen Gallery on Rodeo Drive, Los Angeles. In 2008 The Escape Gallery in Australia, Broker of Authenticated International Art Collectables, published a document outlining why the above mentioned artists' paintings would

<sup>\*</sup>Robert Pope, *A Policy for the Self Funding of Ethical Science through the Arts*, LEONARDO, Vol 26, No. 2 1993.

become “Artworks directly associated with the historical evolution of fundamental global artistic knowledge.\*

\* <http://www.science-art.com.au/science-art-collectables.pdf>

This Escape Gallery publication contains a copy of an extremely rare document. Since the death of Hypatia in 415, no governmental document was proclaimed in which the elected representatives for any region officially endorsed the development of global democracy based upon fractal geometrical logic, until the signed and sealed rare document, mentioned above came into existence on the 6th of March, 2000.

All elected representatives of the six towns comprising the entire region of the Riverland of South Australia and its State Parliamentary representative, signed and sealed this document.

Robert Pope has been appointed by the Florence University’s Science-Art NEW MEASUREMENT OF HUMANITY PROJECT as an Ambassador linking the Project to an electromagnetic model of cerebral functioning being developed by Richard Merrick at the University of Texas. The model, based upon the Classical Greek Music of the Spheres fractal life-science, is considered to be of fundamental importance to the upgrading of Kun Huang’s research program to generate rigorous futuristic human survival blueprint simulations,

The artists associated with the Science-Art Research Centre of Australia Incorporated, have agreed to use the bulk of monies raised by their future artworks to ensure that the NASA HIGH ENERGY PROJECT can harness the energies for the betterment of the global human condition.

Buckminster Fuller, in his book *Utopia or Oblivion* expressed his conviction that when artists articulate about his synergetic life-science energies the world will pull back from the brink of oblivion.

International Art dealers have advised, that if the sciences can provide due international public recognition for the above science-art theories, then the Castle on the Hill could generate many millions of dollars. The artists donation of the bulk of art sales monies, formerly used to construct their castle, would provide significant funds toward ethical physics research.