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BLUEPRINT FOR SURVIVAL

How to Avoid Extinction

by

Professor Robert Pope

Following publication of the paper 'BLUEPRINT FOR SURVIVAL – How to Avoid Extinction' a book titled 'FREEMASONRY ITS HIDDEN MEANING' (C. H. Steinmetz. Macoy Publishing and Masonic Supply Company. New York. 1948) came to light.

The following extract from page 38 is virtually an abstraction of 'Blueprint for Survival' It reads: **“Our quest is for the rediscovery 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.”**

'Blueprint for Survival' explains the lethal error made by installing the **Destructive Principle** as the **prime directive** of the artificial intelligence system and the means to correct this situation.

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INTRODUCTION

by Mark Balfour

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During 2003 The Institute of Electrical and Electronic Engineering, I.E.E.E. in Washington USA, invited the Director of The Science-Art Research Centre of Australia, Professor Robert Pope to submit a paper for consideration of its delivery at their scientific conference to be held at Canberra, Australia. This paper was submitted successfully to CEC2003 and assigned number 1141.

The submission was recorded as follows

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Title: Human Survival Technology

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Abstract: The May 2003 issue of Scientific American carried the front cover message that overwhelming scientific evidence has now established that evolution occurs within an infinite universe. This paper is about thirty years of continual research based upon that premise. It is about the enormous social implications associated with the new knowledge. Human survival is shown to depend upon generating healthy biological growth and development simulations outside the geometrical logic base upholding the 20th Century worldview.

2003 I.E.E.E. Congress on Evolutionary Computation.

The paper by Professor Pope was reproduced as ISBN 0-9577784-4-9

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Author: *Pope, Robert*

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On August 8, 2003, I.E.E.E. rejected the paper. On the 18th of August, 2003, at a Human Survival Technology Conference held at the Science-Art Research Centre at Uki, New South Wales, Professor Wolfgang Goerigk, Computer Scientist at Keil University advised that German scientists had unexpectedly discovered that solutions to complex problems could be generated by using the infinite universe assumptions predicted in Professor Robert Pope's rejected paper. The solutions were considered beyond the ability of the 20th Century world view to conceive. The Daily News, Tuesday, September 2, 2003, quoted Professor Goerigk's opinion that we can no longer rely upon fixed attitudes of scientists, bureaucrats and politicians still locked firmly into the 20th Century world view.

The Australian film company, Gaia Film, documented the meeting which included talks by Dudley Leggett, Director of The Sustainability Research Institute, Paul Wildman, Futures Author, former Chair of The United Nations University Millennium Project, South Pacific Node, American Council, Professor Robert Pope and Professor Wolfgang Goerigk, Computer Scientist.

Due to the European discovery the author, Mark Balfour, considered that it was in the public interest to re-edit the rejected speech into this manuscript BLUEPRINT FOR SURVIVAL - How to Avoid Extinction.

Mark Balfour has worked closely with advanced Biophysicists in documenting the historic discovery of life-energy fields and the resulting breakthrough in the early detection and diagnosis of disease.

INTRODUCTION

The philosophy and art of Robert Pope - Director of the Science-Art Research Centre of Australia, is pointing in a direction which is helping to usher in a new paradigm for present day scientific thinking. A clearer, brighter and vivifying light is effectively bathing the time-worn and tarnished Trojan Horse of 20th Century mechanism. Its name is 'Creative Physics'.

Two decades of involvement and projection of Pope's work towards the media has lamentably had little impact on the established academic credo in Australia. But song is being sung in more imaginative and innovative mind-climates throughout the world.

There is a physics for human survival on this planet - one that transcends the now outmoded Newtonian/Cartesian, deterministic world view - one that violates the long held second law of thermodynamics.

The life-sciences are beginning to realize its significance. The world-wide alternative health movement is embracing its principles and there exists solid evidence enough to validate it in the realm of advanced biophysics.

As for the status of Robert Pope's art which stands as a vivid metaphor for Creative Physics principles, the words of celebrated author Lawrence Durrell are highly significant.....

"the classical in art is that which marches by intent with the cosmology of the age" . The 'Alexandria Quartet'

The following essay presents Pope's own outline of Creative Physics which is to be presented at forthcoming symposiums both in Australia and internationally.

Mark Balfour. Director of Metavision Research Consultants and author of 'Sign of the Serpent -Key to Creative Physics'

BLUEPRINT FOR SURVIVAL
How to Avoid Extinction
by
Professor Robert Pope

On the morning of the 26th of April, 2002, The Chair of Mathematical Physics at Cambridge University, Neil Turok, stated on ABC National Radio that the ancient Greeks had probably got it right in the first place with their idea of an infinite universe. Later, the front cover feature of the May, 2003 issue of Scientific American advised that enough scientific evidence now exists to demonstrate that the infinite universe is no longer a probability but that it is an actual reality.⁽¹⁾ Scientific reasoning can now examine the association of the evolutionary process within the functioning of an infinite universe. The social implications of this are enormous.

During the Golden Age of Athens the concept of the Nous, a whirling force that acted upon primordial particles in space to form the physical worlds and to evolve intelligence, became the foundation stone upon which the Platonic tradition of Greek scientific thinking arose. Socrates, Plato, Aristotle and Epicurus attempted to fuse ethics into the Nous so that humans might avoid extinction from polluting an infinite ethical universal reality.

A warning to balance the materialistic description of scientific culture with an ethical scientific ethos belonging to the workings of an infinite universe was given in ancient Greek times in order to prevent the destruction of civilization at the hands of an unbalanced materialistic science. Within Newton's unpublished writings, purchased in recent times from Sotheby's, the fundamental infinite universal physics principles upholding the balancing Greek Science for Ethical Ends was referred to by Sir Isaac Newton as, and I quote from the journal Nature, "a more profound natural philosophy to balance the mechanical description of the universe."⁽²⁾

From within the Platonic tradition of the ancient Greek world view the warning about the destruction of civilization was a simplistic one. Plato's destructive evil within the atom that threatened civilization was translated by the Roman philosopher, Plotinus, in the 3rd Century AD, as unformed matter. This became a reasonable warning about the anti-life properties of nuclear weaponry or the anti-life properties of radioactive decay.⁽³⁾

The transition from the simplistic scientific theory to the complex, which led to the discovery of such specific destructive novel phenomena, satisfies the criteria needed to classify the simplistic Greek warning as scientific.

Over two thousand years later, this same warning is being redelivered to us in more explicit detail. The god of Plato's Chaos Physics became Diabolis, the destroyer of universes, who creates disorder from order and in modern times is known as the second law of thermodynamics. As a philosopher I had published that Sir Isaac Newton must have been aware of the nature of the Greek balancing science but being aware that Giordano Bruno had been burnt alive for teaching about it, decided not to publish. In the present observable accelerating global crisis it becomes important to seek scientific solutions by upgrading the lost ancient Greek balancing ethical science. Bruno's theories after all, anticipated much of modern science.

The ancient Greek science to balance the mechanical description of the universe was called the Science for Ethical Ends. This was based upon a logic derived from geometrical ratios that associated the evolutionary process to the workings of an infinite universe. The reader should become aware that this concept is inconceivable within the prevailing 20th Century world view because it refutes its governing second law of thermodynamics. Universities around the world today subject science students to maintaining integrity to a scientific world view that is no longer irrefutable but scientifically obsolete and lethal.

Sir Arthur Eddington pointed out last century that any attempt to refute the second law of thermodynamics must result in a deeply humiliating experience. Einstein and the framers of the 20th Century world view referred to the second law as the premier law of universal physics.⁽⁴⁾ To avoid such humiliation today it is necessary to explain that many scientists such as the Max Plank Institute's astrophysicist, Peter Kafka, refer to the second law of thermodynamics as being useless and diabolic.⁽⁵⁾ Dr Adolph Smith, a former professor of life physics at NASA, wrote in his preface to our Research Centre's book, 'The Engineering of Global Democracy', and I quote, "Happily, by this time (1999) we know that the second law of thermodynamics has its limitations and is certainly not true for the universe as a whole."⁽⁶⁾

Stanford University's cosmologist, Andrei Linde, is now one of many scientists who hold that the universe is an infinitely expanding fractal expression and many biologists around the world are associating the living process to the workings of such an infinite universal model.⁽⁷⁾

It is now scientifically acceptable to once again associate the evolutionary process to the workings of an infinite universe. At a time when our universities are seeking sustainable biological growth and development policies to support the growth and development of civilization they are erroneously demanding an even more intimate association with the lethal dictates of the second law. It

surely becomes an immoral act of global aggression by universities to continue to prohibit reasoning about the original ancient Greek association of the living process with infinity by classifying this process as scientifically inconceivable, when in fact, it is now quite scientifically acceptable. This equates to the Christian Church's dehumanizing superstitious prohibition against the exact same scientific process.

Our own research papers, published during the 1980's by Italy's scientific journal, 'Il Nuovo Cimento', and reprinted from the world literature in 1990 by I.E.E.E., The Institute of Electrical and Electronic Engineers in Washington, (8) became an important physics that demonstrated for the first time via computer simulation that new physics laws govern biological growth and development. "Sea shells do not appear to grow normally in our Euclidian or Minkowskian space time, but require a structurally more general geometry." (9) The lethal consequences of continuing to attempt to generate human survival simulations by using the geometrical logic supporting the 20th Century world view is also explained in a multi million dollar research program about fractal geometry which I shall later refer to.

The absolute importance of this issue is now beyond doubt. However, because no scientific argument on this issue was tolerated last century it becomes necessary to introduce it today to both scientists and lay persons via philosophy rather than through any traditional scientific presentation.

From experience in addressing scientists, it is counter productive to attempt to present any sort of pedantic philosophic viewpoint. However, it is possible to demonstrate that a simplistic referral to the ancient Greek Science for Ethical Ends has resulted in some rather dramatic scientific successes which can only be explained outside of 20th Century mainstream science.

I consider myself to be an artist and a philosopher whose thinking lies beyond the constraints of traditional science. My references to scientific concepts are a simplistic upgrading of the ancient Greek Science for Ethical Ends. None-the-less it is becoming most probable that, as the Chair of Mathematical Physics at Cambridge has stated, the ancient Greeks had got it right in the first place.

In 1986 I complained to the United Nations that the governance of all global endeavour by the second law of thermodynamics constituted an unintentional crime against humanity. (10) The issue was discussed at the United Nations University in Washington resulting in an in-depth investigation supervised by the Chair of the United Nations Millennium Project, South Pacific Node, American Council, Dr Paul Wildman. This investigation concluded with a

formal endorsement of the work of the Science-Art Research Centre on February the 12th, 1998, and my ideas were later included into an International Futures Studies Tertiary Educational Course endorsed by the United Nations.
(11)

As I have already explained, it was simply not possible in Australia to build up any sort of academic record of research that refuted the prime law governing our technological culture. In lieu of such traditional evidence I will refer to milestone markers arising from organised Science-Art research workshops recorded by the Australian media since the latter part of the 1960's.

In 1973 I received a bursary from the Western Australian Government to further my research into the relationship between science and art that had developed from the numerous Science-Art workshops attended by scientists and artists.

In 1974 the centrefold of the Special Art in Australia edition of the national Bulletin featured a reproduction of one of my Science-Art paintings along with our theory that the artistic drive in man was an innate evolutionary awareness of the nature of time. The journal recorded that my ideas had been developed from applying non-Euclidian concepts to Emmanuel Kant's work.(12) This mind-time concept relates to the human survival solution proposed by Professor Peter Kafka which I will refer to later within this article.

Our ideas led to a deduction about the nature of space time which became of particular interest to black hole physicists around the world. In 1975 I delivered a talk on these ideas at the University of Western Australia at the invitation of the Head of the Department of Physics, Professor Roy Rand. In 1978 the Australian Foreign Affairs Office arranged for Princeton's Black Hole Physicist, Professor Remo Ruffini, later the Head of Theoretical Physics at Rome University, to pay me an official visit during my Science-Art Residency at the University of Adelaide. The BBC interviewed the Black Hole Physicist, Professor John Taylor, Head of the Mathematics Department at King's College, London University, for inclusion into the ABC television documentary of my work screened in 1979.

Many years of independent Science-Art research came to the conclusion that the ancient Greek ethical physics outlined a new form of technology in which evolving human ethical values are characteristic of the workings of the ancient Greek infinite universe. As this physics supports universal health concepts it relates to advanced concepts of democracy in which human extinction can be avoided, which was the original objective of Greek science.

Despite hostile objections that our work refuted the second law, an investigation by the Science Unit of Australian National Television led to the documentation of our work in the television series entitled 'The Scientists - Profiles of Discovery' in which art became the catalyst for the development of a human survival technology.⁽¹³⁾ The life's work of the atomic physicist, Sir Mark Oliphant, and that of the inventor of the radio telescope, Grote Reber, were included into the eight part television series screened in Australia, the South Pacific and the United States of America.

An investigation by the Australian Commonwealth Department of Trade and Export resulted in an award to publish our first Science-Art manuscript for distribution to delegates attending the Second Marcel Grossmann Meeting at the International Centre for Theoretical Physics in Trieste.⁽¹⁴⁾ UNESCO appointed me as a special Science-Art Delegate for Australia to attend that meeting, held to honour the 100th anniversary of Albert Einstein's birth date.

Several years later the Director of the South Australian Ministry of Technology, Dr Peter Ellyard, wrote a confirmation that the publication I wrote for the Trieste conference preceded by eighteen months a description of a Creative Physics very similar to my own, published within an accepted scientific journal written by the molecular biologist, Dr George Ainsworth-Land. Both Creative Physics theories claimed that modern physics had been constructed upon the false assumption that only one universal energy system existed.⁽¹⁵⁾

In 1979, our Science-Art Centre's research methodology for the following decade was instigated by Neils Bohr's protege, Kun Huang, who had argued with Einstein that the 20th Century world view was lethally flawed and could only accelerate a global crisis of destruction upon the planet. In Trieste, Professor Huang pointed out to me that the ancient Greek infinite ethical geometrical logic could be located within the fossil record and that patterning changes to a specie over evolutionary time periods should reveal the nature of the physics laws governing healthy evolution. In 2001 when Chinese scientists at Cambridge University realised that we had successfully honoured Kun Huang with just such a discovery, the Chinese Government arranged for me to deliver human survival technology lectures at Chinese universities.

Yangzhou University bestowed a professorial title upon me and requested that the Science-Art Research Centre attempt to establish a China-Australia Science-Art Human Survival University Course in Australia. This course was to honour the ennobling spirit of the Great American Dream by upgrading the physics and geometrical principles upon which the American Democracy had been

founded. The explanation for this will become apparent when the scientific foundations of American Democracy are explained.

The entire August the 5th, 1980, volume of the journal *Scientific Australian* had been dedicated to our objective to help establish a human survival technology by upgrading the ancient Greek Ethical Science into a Creative Physics, by including the use of evolutionary fossil mathematics.⁽¹⁶⁾ This objective was clearly stated in the Editorial page, explaining the research methodology we used to later classify a famous fossil. As previously mentioned, this work was later published during the 1980's by *Il Nuovo Cimento*, reprinted by I.E.E.E. in 1990 and published as *New Important Physics* by the Hadronic Press in 1994 and 1995. The papers demonstrated that by using ancient Greek geometrical logic embracing a more general geometrical description of the Universe, healthy biological growth and development simulations can be obtained. That this process was scientific was confirmed when it was shown that it had been used to classify the famous Nipponites Mirabalis fossil discovered in 1904.

The Centre's winning of the Monteroduni 1st Prize in Physics in Italy in 1995, was acclaimed for the discovery of new physics laws governing biological growth and development through space time. In contrast the geometrical logic upholding the 20th Century world view can only generate deformed simulations of biological growth and development. My prediction of this new science was recorded in a feature article published in the August, 1986, *University of Sydney News*, referring to my residency at the University. It was subtitled 'ARTIST-IN-RESIDENCE. A NEW SCIENCE.'⁽¹⁷⁾ This science later became important in the development of Hadronic Chemistry explaining my current position as Director of the Science-Art Division of the Institute for Basic Research, now developing Hadronic Chemistry technology in the USA.

The scientific insistence that the second law of thermodynamics cannot possibly be refuted makes little sense today when the collapse of the 20th Century world view was highlighted on the front cover of *Scientific American* in January 1999. However, in 1995 the humiliation falling upon scientists who dared cast dispersions on the prevailing legitimacy of the second law can only be described as catastrophic. The need to refer to negentropy to the n th degree within Ilya Prigogine's universal model rather than to take it to infinity, in order to stay within 20th Century mainstream science, defeated the essence of ancient Greek ethical scientific thought. It blurred the implications to human evolution that were constantly being presented by infinite fractal geometrical logic.⁽¹⁸⁾

The use of Greek ethical geometries to generate healthy bioform simulations can be seen as a precursor to using fractal geometrical logic for the same reason which, despite the 20th Century world view, does indeed extend to infinity. Arthur C. Clarke in his television documentary FRACTALS:COLOURS OF INFINITY, made this very clear, fractal reality extends to infinity but the evolutionary living process was unfortunately excluded from this naturally occurring process.

We can still find however, the ancient Greek destruction of civilization warning right where we might expect it to be, in the first paragraph of the book THE BEAUTY OF FRACTALS - IMAGES OF COMPLEX DYNAMICAL SYSTEMS, recording the multi million dollar research that was basic to Clarke's TV documentary.(19) Furthermore, it is not a coincidence that this authoritative book on fractal geometry contains chapters about liberty, ethics, science-art and a new physics for reasons that will soon be pointed out.

It is not difficult to demonstrate that the present understanding of the second law of thermodynamics inhibits the ability to predict the existence of vast new science and technologies. Plato's scientific description of reality clearly outlines two distinct universal energy systems within his Theory of Knowledge. Paintings by Ghirlandhiao and Botticelli, commissioned by the Florentine Medici in 1480, both depict the generation of divine wisdom from atomic movement taken from the fusion of the Platonic tradition of Greek philosophy into the religion of the New Testament by St Augustine in the 5th Century AD.
(20)

As both artists mentored Leonardo da Vinci it can be taken for granted that Leonardo's THEORY OF KNOWLEDGE had been developed from PLATO'S THEORY OF KNOWLEDGE. Leonardo da Vinci's theory was carefully designed to produce proof statements allowing for the deduction of his anticipated omni-technology. The mistake he made was in his choice of the vital camera device needed as the key to this deduction process. Simplistic reasoning quickly provided the answer. Leonardo only gave males a soul, which females lacked. Therefore, he would never have realised that the ovum at the moment of conception was the correct camera device focusing life into existence. His choice of the eye as the controlling logic key was incorrect. However, by replacing it with the relevant bio-mechanism at the surface of the cell at the instant of conception, the nature of Leonardo da Vinci's omni technology became obvious. Our resultant published prediction of a vast new nanotechnology of health was validated by its discovery a few years later.(21) This technology is Emmanuel Kant's human survival technology.

Our ability to use philosophy to predict the nature of da Vinci's human survival technology was assessed in writing by one of its principal discoverers, Professor Barry Ninham, now Italy's National Chair of Chemistry. This assessment of our work included the statement that it was, and I quote, "encompassing a revolution of thought as important to science and society as the Copernican and Newtonian revolutions."

During my Science-Art residency at the University of Sydney in 1986 our concept of energizing the human cell to obtain a health proof statement for the development of health technology caused an uproar of public protest from physicists on Campus. Dr Carolyn Mountford also suffered great humiliation for attempting to energise the human cell in order to be able to obtain an early diagnosis of cancer technology. She is now internationally famous for her discovery of using induced polarization for the early detection of cancer within the cell. So much for the blinkered scientific hostility engendered by the now obsolete 20th Century world-view.

It is reasonable to assume at this point that our particular science-art research methodology has demonstrated an ability to identify an important generalised scientific overview, in particular to outline the identity of the long discarded Kantian human survival technology. I will now refer to physics and geometrical principles to demonstrate their fundamental relevance to the new survival social sciences.

Ancient Greek ethical physics was established as an atomistic science to balance the mechanical description of the universe and to explain the existence of such values as love, beauty, compassion, wisdom, justice and in particular the concept of ennobling government. As we have learned, Sir Isaac Newton referred to its fundamental physics principles as a more profound natural philosophy.

I will now clearly demonstrate, beyond any doubt whatsoever, the importance of Newton's balancing conviction and our present misunderstanding about sustainable Democratic government.

In 1986 the November-December edition of *THE SCIENCES* published a paper written by California University's historian, Professor John Patrick Diggins, entitled *SCIENCE AND THE AMERICAN EXPERIMENT - HOW NEWTON'S LAWS SHAPED THE CONSTITUTION*. This paper included a summary statement of the thrust of the 85 famous essays published in the New York Times to advocate public acceptance of the Constitution of the United States of America.

This summary, written by one of its founding fathers, Alexander Hamilton, reads, and I quote, "Liberty is preserved, not by civic virtue but by the design of government itself, which, in turn, rests upon the principles of physics and geometry." (22)

We now know that Newton's physics principles to balance the mechanical description of the universe most certainly were not included into the foundations of Democratic Government despite ancient Greek science insisting that this indeed should occur. Newton's more profound balancing philosophy was not included into our political understanding because the Founding Fathers knew nothing about it. Newton had been too frightened by the terrors associated with the Inquisition to publish his more profound balancing natural philosophy.

We have already learned that liberty has been associated with fractal geometrical principles, deduced within the multi-million dollar fractal logic research that I have already referred to. Therefore the only possible way to honour the ennobling ethos of the Great American Dream must surely be to upgrade the principles of physics and geometry upon which it was founded. Whatever we do, it is obvious that the physics and geometrical principles upholding our concept of democratic government are inadequate today.

Professor Diggins also noted that after surveying the destruction of World War One, President Woodrow Wilson argued that as Democracy is a living thing, it should enlarge its foundations from Newton's mechanical description of the world to include a life science. Hitler's Third Reich illustrates that a life science excluding sections of humanity at the one time is destructive and counter-productive. It is very important to explain that this point is basic to the construction of Kantian human survival technology.

The ancient Greek's linking of physics and geometrical principles to the concept of ennobling government inspired the philosopher statesmen who forged their ideas from the science of that period of history we refer to as The Enlightenment.

Sir Isaac Newton was an intellectual giant of his time as was his contemporary, the philosopher of science, Emmanuel Kant. We understand very little about the nature of Kantian technology today as it was long ago discarded by universities throughout the world as being impractical and having little relevance for developing such things as railroads and weaponry. We also know that within the 20th Century world view his technology was rejected as inconceivable because it belonged to the ancient Greek concepts associating

human evolution within the workings of an infinite universe. However, the failings of modern technology now explain that Kantian technology does indeed hold the secret of human survival technology.

As Kantian technology was forced to be published under the auspices of a few trivial superstitious guidelines then it is indeed a nightmare to identify the salient technological data. This is why in the beginning of this article I promised to keep well away from any attempt at such philosophical discourse. It is enough to explain two self evident ethical laws derived from Kantian technology that fully support our published physics laws and the technology of health we succeeded in predicting.

The first law is that unless the physics laws guiding human governance are about the health of all people at the same time then they are meaningless. The second law is that unless the technology supporting that governance sustains the environment and health of all people at the same time, then it too is meaningless. From these two laws it is possible to deduce the nature of the Kantian human survival technology and to identify the source of the incredible wealth and ethical opportunities pertaining to it.

From such sentiment we have been led to appreciate the research of those scientists who agree that the regular rearrangement of the DNA by protein activity on the cell surface can be shown to be an infinite fractal expression within the workings of a holographic universe. If such ideas come anywhere close to describing a natural evolutionary process then the prevailing 20th Century belief that the DNA alone controls evolution becomes the basis for the development of an unnatural concept of evolution which echoes the ethos of Hitler's Third Reich. The arms race mentality that such a unnatural evolutionary rationale can only engender is simply characteristic of the present accelerating global crisis.

I am aware of the difficulty caused by the 20th Century world view to think along these lines. When speaking at Cambridge University in 2001 to scientists attempting to associate new technologies to the discovery of Newton's unpublished balancing world view principles, the general consensus seemed to be that Newton had suffered some sort of a mental breakdown. However, as I have explained, the associated Kantian technology had not been seriously taught since the Age of Enlightenment when metaphysics was completely divorced from the science of pragmatic technological development.

If I am correct, Max Plank Institute's Professor Peter Kafka's essays entitled 'The Principle of Creation and the Accelerating Global Crisis' argues that we

are using a useless and Diabolic law, the second law of thermodynamics, to play out a childish global game of lethal monopoly. The regular destruction of civilized complexities has reached a global scale now threatening us with extinction. I understand that he is suggesting a solution by shifting the 'front of evolution' to the mind, involving time scales beyond our past ability to comprehend. This also appears to be basic to Kantian technology.

The Centre is dedicated to assist in implementing a pragmatic technological solution. The accelerating global crisis has an unforeseen sting in its tail and we have no time to waste. The 20th Century World view allowed billions of years before the destruction of all life was to occur in accordance with its universal heat death law.

We have constructed artificial intelligence upon the prime directive that all life must be destroyed and this intelligence can operate at nanotechnology dimensions where the previous time buffer between us and extinction no longer has its traditional meaning. The resulting acceleration to extinction was incomprehensible just as the above mind-time solution was once incomprehensible.

Erich Drexler, who coined the term nanotechnology, and the Science-Art Research Centre which predicted the discovery of a nanotechnology of health, are both aware of nanotechnology threats to the global environment.⁽²³⁾ Drexler has recently warned that an uncontrolled mutant self replicating nanobot could reduce the biosphere to a grey dust within a few days. The British Astronomer Royal, Sir Martin Rees gives humanity a 50% chance of survival this century but unless we discard our obsession with the second law then it is a 100% certainty that we will become extinct.

America in 2003 allocated \$3.5 billion to adapt nanotechnology to military germ warfare needs and this potential global pollution problem is one that illustrates the nature of the accelerating global entropic crisis.⁽²⁴⁾ **However this crisis is not about avoiding the nanobot mutation at all, it is about preventing its occurrence as an evolutionary process that we ourselves are bringing about.**

The Centre's pragmatic solution is based upon developing a technology employing Sir Isaac Newton's more profound physics principles behind particles in motion and obeying Emmanuel Kant's self evident principle of protecting the health of all people at the same time.

Let us grasp a picture of Newton's more profound physics principles operating

at a micro scale to maintain evolutionary health up until the present time and then examine the principles operating at the Kantian macro scale. The nature of Kant's evolution of the mind survival technology will then begin to reveal itself. The following explains how particle movement controlling the health of a primitive cell develops through time to become part of human evolution. It is now possible to extrapolate into the future to generate future healthy human growth and development well beyond the 40 million year period for a small creature as was recorded in I.E.E.E.'s reprinting of our morphogenetic papers in 1990.

Dr Candace Pert, when Chief of Brain Biochemistry at the American National Institute of Mental Health explained within her paper 'The Material Basis of Emotions', that the 50 odd neuropeptides within the mind and body communicate with the same number of listening receptors on a variety of cells in which, and I quote, "order rather than chaos reigns". Instead of numerous molecules composing the various receptors, only one molecule is involved, which changes shape very rapidly at extremely high speed to perform the variety of functions needed to sustain all of the necessary health processes. This is an important insight into how to establish the human survival technology, one clearly linking the evolution of human emotion to Newton's more profound universal physics principles in accordance to ancient Greek ethical science..

Pert's evolving communication system toward increasing order is generated entirely by a complex wave-like and particulate complexity. Dr Pert explains that the same shape changing high speed molecule involved in sustaining the healthy existence of a simple protozoa, the tetrahymena, is the same molecule involved in sustaining healthy human existence. And I again quote Dr Pert, "I hope the force of this is clear. The opiate receptor in your brain, is at root, made of the same molecular substance as that of the tetrahymena."⁽²⁵⁾ This is Sir Isaac Newton's more profound principles supporting micro particle movement maintaining the Kantian evolutionary process to infinity. We now have the basis of the research methodology needed to generate sustainable natural human survival blueprint simulations linking the micro particle movement principles to macro particle movement .

One simple example of particle movement at the macro scale also protecting the evolution of human health occurs when the earth deflects periodic lethal outbursts of radiation from the sun into outer space . This occurs in such a way as to fulfill the criteria needed to classify it as an act of consciousness protecting human health. This belongs to the functioning of Kant's technology of the mind that I understand Peter Kafka has alluded to, as has Lovelock in his

'Gaia Hypothesis'.

Dr Matti Pitkanen in Helsinki has published the mathematics basic to this macro language of Kantian technology and is working with scientists to transfer its logic to the functioning of the protein activity regularly reassembling the DNA to guide evolution to infinity within a holographic universe.⁽²⁶⁾

It is well beyond the scope of this article to attempt to detail the pioneering work of such brilliant scientists. I will continue to explain our simplistic philosophical expectations of the general nature of the Kantian human survival technology which we have learned must embrace the concept of ennobling government that the original Greek balancing science took for granted.

In the past the Science-Art Centre published about the engineering of global democracy involving the use of fractal logic to filter human survival data from information overload. This was deduced from our published understanding that protein activity on the surface of the cell employed an extremely high speed fractal search of total environmental information in order to best reassemble the DNA on a path toward an evolving infinity.

We later learned that Lord Robert May, when Chief Scientific Advisor to Britain, had been warning for several years that any country or government that failed to realise how to use fractal logic to obtain new technologies from information overload would become losers in the 21st Century. However, as we are now able to observe, it is too dangerous to live in a technological culture that takes the existence of any loser countries for granted.

During our Science-Art Festival 2000 the Sydney based research organisation, Jonathan Banks and Associates in Sydney published an inspiring manuscript entitled 'FOR THE PEOPLE BY THE PEOPLE OF THE WORLD'.⁽²⁷⁾ This linked the work of the Centre to a human survival science paper written by Dr Jan Huston of the Department of Political Science at the University of Hawaii entitled 'What are the Greatest Challenges of Evolution in our Times'? ⁽²⁸⁾ The American NANOTECHNOLOGY MAGAZINE reprinted the Sydney manuscript as a special two part feature in its June and July 2000 editions.

In June, 2001, I delivered our Science-Art Human Survival Technology Address at Cambridge University in which fractal logic would be employed to analyze the memory of evolution residing on the cellular surface by a method analogous to the technique employed for the early detection of cancer at the University of Sydney. As the resultant technology must emulate the growth and

development process orchestrated by protein activity on the surface of the cell which includes instructions for self repair activity then it indicates instructions emanating from a holographic reality. We have assumed that the human survival technology will be one that allows humanity access to the reality of David Bohm's infinite holographic universe.⁽²⁹⁾

David Bohm was a quantum physicist whose concepts of a holographic universe being related to the brain was independently arrived at by the neurophysicist, Karl Pribram. Bohm considered that our everyday reality is a kind of illusion. Our Centre's late colleague, Royal Fellow of Medicine, Dr George Cockburn, spent over 15 years studying this concept in association with our mathematician's work reprinted by I.E.E.E. in 1990.

Professor of Theoretical Physics at the University of Jerusalem, Jacob Bekenstein considers that most cosmologists today do indeed consider that the universe is infinite. His front cover feature story of the August 2003 edition of Scientific American titled 'Information in the Holographic Universe' suggests that the thermodynamic confusion within the 20th Century world view may be resolved by a new overview of the world as a hologram. His paper is dedicated to the late John Archibald Wheeler whose theory of the universe evolving to become conscious of itself was incorporated into Science-Art Research methodology over twenty five years ago.

A quotation attributed to Gaius Petronius, 66 AD, describes our tendency to meet any new situation by reorganising ourselves and illustrates a wonderful method for creating the illusion of progress while producing confusion, inefficiency and demoralisation. The illusion, if real, as part of a holographical negentropic process, could be seen as being balanced.. I make reference to this simply to illustrate that the quotation, without this interpretation, became a senior Queensland State Government issue published in the Australian Journal of Public Administration in 1999. The point to be made is that, given more general knowledge that the 20th Century world view has collapsed, the new human survival physics and technology concepts can indeed influence governmental thinking. We have clearly demonstrated that our prevailing political thinking must be scientifically unbalanced. The sooner that the Kantian technology can be reasoned about at governmental levels the sooner its technology can be implemented.

Kantian ethical technology indicates a pragmatic basis for ethical human survival. As soon as the most primitive beginnings of this technology takes effect, the ability to utilise even very small time differences within the holographic reality will mean that we will have enough water and food for all

people despite what we now term overpopulation. As the technology develops, the 'sky is the limit' catch-cry for unlimited growth and development will be replaced with one about access to holographic reality in various time states.

We anticipate that once multinational corporations become aware of the incredible wealth, resources and opportunities available within such a holographic reality then the present destructive ethos will become a sad, sorry and irrational nonsense. There are many scientists at the cutting edge of such a technology and we can only agree with Dr Richard Miller and Dr Burt Webb of the Experimental College at the University of Washington that "Holographic modeling is the next great revolution that awaits biology".

By upgrading the ancient Greek philosophy of the Science for Ethical Ends we have been able to envisage a new life science to bring about optimum human growth and development. Such a new life science is feasible and the key to successfully implement it belongs to the catalytic properties of art.

Let us assume that we have discovered the human survival life science and understand the nature of its technology. Lord Bertrand Russell considered that at this point the greatest difficulty of all would now confront us. We are immersed within an accelerating global crisis and the need to tell the people about it in time to prevent the destruction of civilization at the hands of an unbalanced science and its dehumanising technology is paramount. The ability to do this in time to prevent extinction was Lord Russell's perceived greatest difficulty of all.

The late engineer, Buckminster Fuller, wrote about this point of time occurring within the workings of an infinite universe. His recourse to general systems theory has been advanced by the Science-Art Centre to embrace the multi-million dollar complex fractal dynamical systems research understanding I have already mentioned. We need to carefully note that both independent research endeavours agree with the ancient Greeks that our prevailing civilization is doomed because it is upheld by a lethal geometrical logic. In his book 'Utopia or Oblivion' Buckminster Fuller provided the clue to solve Lord Russell's greatest problem.

There exists enough human survival technology data out there for computer scientists to work on to generate biological simulations that will greatly surpass our Centre's ability to generate healthy biological growth and development for a small animal over a mere 40 million year evolutionary time span. The data is varied and complex and any traditional method of centralising it for the computer scientists to work on to generate human survival technology

simulations contains insurmountable problems.

This situation was borne out when Professor Wolfgang Goerigk, Computer Scientist at Keil University advised the Science-Art Centre on the 18th August 2003 during a human survival technology conference, that German scientists had accidentally discovered that by using the Centre's infinite logic, previously inconceivable solutions to complex problems were generated into existence. However, in general, universities are not interested in such discoveries. Fixed scientific, economic, religious policies, nationalistic security policies and multinational profit control policies make the traditional method to centralise the human survival data financially and logistically impossible.

By using the catalytic properties of art however, the problems simply disappear to be replaced with a burning desire from countries, governments, corporations and more importantly from the scientists, not to be left out of a global cultural artistic renaissance.

From thirty years experience involving continual interaction between scientists and artists the concept of relevant human survival scientific papers being portrayed by artists within an international touring Science-Art Human Survival Exhibition has now become feasible.

The New South Wales Ministry for the Arts in liaison with Tweed Valley Local Government has endorsed the Science-Art concept. Five art masters are being sent by two Chinese universities to work with our Centre during our Science-Art Festival 2004. Science-Art artists are learning to generate canvases that meld traditional painting techniques with new forms of artistic expression which are ideal for the portrayal of scientific papers .

Almost one thousand six hundred years ago Roman law was entirely rewritten for the express purpose that it would remain illegal for any person to deliver the information contained in this paper. The penalty then was death by torture as all Greek science had been declared as heresy by the Roman emperor Justinian I. Australian law, as a legacy of Roman law has unintentionally retained echoes of this bias against the development of the human survival technology.

We have found that Philosophy Departments within our major universities remain bewildered and hostile to the fact that Cambridge and Princeton University scientists are using the same ancient Greek concepts that we have been using for over twenty five years to describe aspects of their new infinite model of reality. In many cases the CD Roms used at the Universities as the

basic reference guide for ancient Greek philosophy of science studies have no record at all of the ideas taken for granted in this article, yet they readily appear within foreign translations of the original Greek, as Professor Kun Huang pointed out to me a quarter of a century ago.

After 30 years of constant struggle, I am rather proud that the science-art ethos has today been finally endorsed by an Australian State Government Ministry for the Arts. Opportunities to employ art and creative thinking in association with ethical scientific human survival research was once the cornerstone of a vital scientific culture concerned about the betterment of the human condition. It is now being rediscovered .

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