A SYSTEM OF EFFORTS TO
AVERT ALL GLOBAL EXTINCTION EVENTS

UNIVERSITY ALLIANCE – QUANTUM ENTANGLEMENT
separable control of space & time

CST

James Dunn   james.dunn@bie.edu

Forward

10 pages start with Chapter 1

Electricity at one time was magical; and now mundane. The same is true of space and time. Once the foundations of space and time are understood as described in Chapter 5 – "Pathway", the methodologies for controlling space, time, and gravity become understandable and attainable.

Additional developments are available that provide greater detail, but the intent here is to formulate and initiate a system of efforts for the characterizing of quantum entanglements with regard to relativity in uniform fields of physics such as gravity, centripetal force, acceleration… while providing the administrative influence to sustain economic growth.

The pathway itself provides for predictable systems of opportunities and career pathways to elevate students in higher education as scientists/engineers to business development professionals as well.

Unaddressed Societal Challenges

More important than the actual control of space, time, gravity, energy… is the inspired effort to achieve those goals throughout a nation of uninspired youth; which is symbiotic with the seeding of vast systems of economic opportunity. Space inspired youth of the last generation; the next generation needs a different passion to frame their dreams.

"The Great purpose of higher education is to train the mind to Efficiently teach oneself; to become an expert in anything Passionately pursued." ~James Dunn

All of the following are unaddressed societal challenges addressed in this whitepaper:

- Active and separate control of space, time, energy, gravity… needs development to avert global extinction events; of which are historically overdue.

- Systematic characterization of quantum entanglement is non-existent, and without regard to relativity.

- The control of space and time is necessary for interstellar travel.

- Large space-based environments do not exist for providing low-density self-sufficient populations.

- Tools are not available to provide vast resources of food and energy.

- Students are not dominantly motivated to participate in STEM areas of education.

- There is no current pathway for extreme longevity.

- Mental and physical conditions handicap humans unnecessarily.

- Society in-general needs a polarizing mechanism to feel they are a part of something greater, for them to sacrifice their free time in pursuit of a fulfilling effort.

- No common motivation unites young people to achieve academic greatness:

    o most graduate students nationwide are foreign nationals,

- o a great many young people have an unfounded feeling of entitlement,

  - ▪ a feeling of entitlement is born in a person from not being able to recognize their own accomplishments, or having their accomplishments demeaned.

- School systems do not teach common sense:

  - o Common Sense = Voice + Logic + Predicting Consequences

  - o Teaching Common Sense =

    - ▪ Debate (NOT discussion) +

    - ▪ Critical Thinking +

    - ▪ Analyzing any issue to provide sustainability (any subject).

- Students are not taught to recognize and logically pursue opportunities.

- Students are not taught the secret to happiness:

  - o be broadly grateful, and keep yourself healthy.

- In an environment devoid of significant employment opportunities, and rich with small business opportunities; students are NOT taught business practices.

- Role models on television, news, and in recording industry are criminals; and, drugs are an underground accepted way of life; both in use and for business.

- ADHD is a chronic self-inflicting cycle. Mother drinks or is chemically contaminated during pregnancy. The fetus brain is damaged. The most common symptom is ADHD. When the baby becomes a teenager, they self-medicate with alcohol. They cannot keep from drinking during pregnancy. The new group of fetus has even worse cases of ADHD. The cycle repeats and spreads.

- … this list shortened

The unaddressed societal challenges are many, but there are methods that provide for addressing many of these challenges on a continuing base as symbiotic, constructive, polarizing, and exciting motivators. Additionally, the symbiotic natures of the government administrations make implementation an almost transparent update to existing administrative systems. The extremely high public visibility promotes these government administrative symbiotic efforts to substantially address the above-cited challenges.

Mapping to Administrative Guidance

Existing Government offices effectively administer programs initiated by top-down directives. The Nation needs a woven fabric of interactive development based upon the pathway cited in Chapter 5 - "Pathway". This provides a system of mutually supporting objectives and shared recognition for all related accomplishments; thus justifying on a national level the importance of the related organizations.

The combination of the following government administration centers, the motivators provided by a systematic development creating predictable opportunities, and the long-term high profile steps of accomplishment, provides a foundation for continuous generators for economic development.

Department of Education

"Consider the lost opportunity for those kids – our kids —1.3 million of them every year. Consider the staggering economic cost to our nation when one in four of our students don't get a high school diploma. It's a drain on our labor market, our housing market, our criminal justice system, and our tax base. When we fail to properly educate on the front end, we all pay, and pay dearly, on the back end."

Teach Common Sense, provide pathways to careers that provide support for grant related efforts, maintain University Alliance programs that chain accomplishments from Elementary Schools through post-doctoral fellowships, and provide student accomplishment generators through industry involvement.

Department of Commerce

"He [President] also emphasized the importance of science, technology, engineering and mathematics (STEM) fields, where many job openings exist. The president's 2013 budget requests $3 billion in STEM programs across the federal government. In addition this week, President Obama is calling on Congress to pass legislation that would prevent interest rates from doubling for seven and one-half million students starting July 1."

Correlate business opportunities with Department of Education internships to support a Vertical Integration Pathway (VIP - Dr. Nader Vadiee) such that every student is both reaching up for motivation, and reaching down to provide support for those needing guidance into higher education. This includes small businesses getting guidance and support to recognize and act upon opportunities; extending down into school systems. Similar to the Greek model of education, provide contracted full ride scholarships such that 5% of all profits made by a student after graduation is split amongst a formulary related to all schools attended. The students are for their entire careers connected to the schools that educated them. Every semester graduates students

funding the school systems. The better run school systems become more prestigious and they intern promote the feeder schools that provide them with better educated Freshman. Of principal concern is that significant support is provided to force the seeding of businesses from research and education activities to provide self-funded efforts.

Global Extinction Events

http://messier.seds.org/more/mw_sn.html
"modern estimates predict that every few decades one supernova should occur in a galaxy like the Milky Way."

Through the National Science Foundation, catalog global extinction events and mechanisms for averting those systems of events as the subject of national competitions. This helps fund successful efforts in research, provides public awareness, loosely directs development towards consolidated goals, and raises public awareness of the on-going efforts related to public education.

DARPA QUEST

"The goal of the Quantum Entanglement Science and Technology (QuEST) program is to investigate innovative approaches that enable revolutionary advances in the fundamental understanding of quantum information science related to small quantum systems. The objective of QuEST is to identify and address the most important outstanding challenges and opportunities, both experimental and theoretical, and resolve or exploit them to enable revolutionary advances in the field of quantum information science and technology."

The separable control of time, space, and gravity depends upon the functioned constructs of quantum entanglement. A catalog of quantum entanglement properties is critical to correlate for the puposee of creating tool sets. If the systematic and efficient production of related tools are developed, all global extinction events can be averted, intergalactic travel routine, large low-density populations in ideal environments expected, longevity measured in thousands of years common, and ethical consideration evaluated as strengths rather than weaknesses to abuse. The basic pathway for separable control of space, time, and gravity is cited in a later section.

National Science Foundation

"Recent advances in numerical relativity include new understanding about the physics of binary black hole mergers. Results from such simulations have been used to extend and improve gravitational wave data analysis techniques. To bring this to fruition requires the complication of a comprehensive gravitational wave template catalog. However, this is a significant challenge: it requires covering a vast parameter space."

Creating and documenting experiments related to relativity and gravity are basic functions of quantum entanglement. As provided at CST.support-port.com, there are many experimental setups to be used to systematically catalog quantum entanglement characteristics with regard to relativity and fields of uniform physics; both static and dynamic. This experimentation extends into environments of particle accelerators and colliders. Technology transfer through the Department of Commerce programs is critical.

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Justifies Government Attention

Although Renewable Energy speaks to the heart of many Americans with regard to self-sufficiency, political independence, ecological concern… the reality is that the energy needed to protect the Earth far exceeds our total resources to include fossil fuels; and the types of energy control needed to meet our future needs is not at all met by Renewable Energy research. The national pathway described in Chapter 5-"Pathway" outlines the methodology for separable control of time and space; as well as an environment for making technologically advanced systems such as instantaneous processors and infinite memory systems.

To meet the present energy use of just the United States requires 1 ½ times the entire land mass of the continental United States planted in soy beans on fertile soil; no lakes, no roadways, no buildings, 150% of the land area producing soybean oil (~60 gallons per acre).

Algae production is 12 times more efficient than soybean oil production, but this still requires about 15% of the land area of the United States; without considering the increased needs for energy in the future.

Orbiting space-based solar concentrators can easily provide for the present and foreseeable future energy needs, while also providing active continuous weather control globally. However, this form of energy does not protect the Earth from many of the systemically triggered global extinction events, does not provide for interstellar/intergalactic travel, and does not provide for an expanding human population…

To meet the continued human population growth, we need to be able to live in space-based communities that attractively exceed the desired qualities here on Earth; while also providing high levels of economic opportunity throughout all populations.

Without Government intervention, the systematic conditions will not form to create "sustainability" of development following a triggered technological effort. For example, in Microsystems technology enterprise; the structure of the technology base is disconnected from systems of education and enterprise, such that critical mass has not been realized.

Essentials for TIP Funding

A trigger event is the social media acceptance and propagation throughout the demographic sectors of Twitter, Facebook, YouTube and other viral media. A University Alliance needs to have seamless integration throughout all school systems to entangle the opportunities and motivations throughout all school systems and industry. "Result Management" must be used to sustain intents throughout the systems of influence. These are support networks needed to sustain public and private sector funding of research and development initiated. Of chief importance is that NIST provide a live target for categorizing properties of quantum entanglement and a cloud-type relational database, such that the shortest path for development of separable control of space and time is realized.

No current effort other than the one described in Chapter 5 – "Pathway" has the predictability for generating profitable opportunities in the private sector. During the development pathway the related tools have broad applicability to present technologies. This provides incremental funding for research other than that provided by government programs.

The cost of development for the NIST cloud-type relational database is dependent upon the features that NIST would like to add such as:

- Flexible data structure
- Flexible file types
- Graphics capabilities
- Genetic Algorithms and Neural Networks for determining alternate applications for abstract relationships
- Royalty sharing of developments
- …

Highly recommended is a team of many experts that use 6-Sigma and "Result Management" types of tools to identify the total system conditions that describe the environment of influence, and correlate the best methods of achieving the desired goals.

Pathway to Control Time and Space

Separable Control of Space, Time, Gravity, Energy, and more
Functioned Quantum Entangled Singularities (QESdunn)

[a singularity is nothing special – a constant]

Relativistic Matter as entanglements amongst Higgs-Boson & Gravity moderators
Relativistic Energy from relationships of Space, Time, and Gravity
Relativistic Gravity from Entanglement Moderators
Space from Scalar Functioned Entanglements
Time from Causal Functioned Entanglements
Systems of Quantum Aliasing with Transfer Functions providing "Probability Aliasing"
Relativistic Mechanics with superposition within Singularity Mechanics

What we presently describe as sub-atomic particles is relativity between functioned
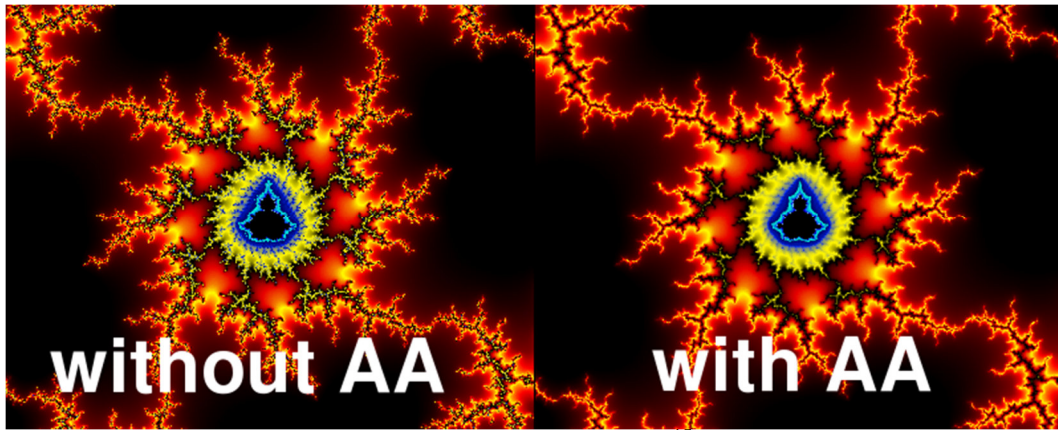quantum entanglement systems.

This Theory of Everything (TOE) is based in modern experimentation techniques and a
practical methodology pathway is provided herein. The TOE unifies not only
Electromagnetism and Gravity, but also instantaneous properties of entanglement and
gravitational aberration, as well as all anomalies in physics.

An expanded publication provides detail.

Aliasing is apparent formation of new waveform artifacts from what is considered two or
more base waveform artifacts. Like watching a propeller on television that is spinning at
1800 RPM clockwise, but the video camera takes snapshot frames at 30 FPS, the effect
being that the propeller appears stationary. This loosely relates to quantum aliasing
and the superposition of Relativistic Mechanics (observable universe) upon functioned
quantum singularities.

The below shows the difference between 3D fractal probabilities aliased with a color
filter function called AA[12](Anti-Aliasing). Notice in addition to the color changes, the
intensity has changed as well. Upon close inspection, many different products were
aliased to produce "Relativistic" observations. In the "without AA" tentacles, notice the
many relativistic structures. They largely do not exist when aliasing is removed.

Aliased 2D Graphics[12]

What is Time and Space

In Probability Aliasing where time and position do not exist as part of the foundation of the Universe, Time is a derived causal sequence that is forced upon us as a series of entanglement events; modeled as a series of nested probabilities. Position is a derived sum of probabilities where each term is a condition contributing to a system of probabilities. Position is easily mutable as an interactive scalar system of an array of probabilities that are all mutually interactive.

The relative interactions of these entangled scalar systems with respect to the causal systems form the fabric of observable time and space. See detailed publication.

Time is the causal part of Space/Time relationships, a system of causal propagation.

The reason time is currently irreversible is that time is not separable. Under complex structuring of step-events, not only is reversing possible, a method of moving a section of the system to an alternate history would be feasible; reversing time progression with variations; changing the timeline.

[13]"Detection of quantum entanglement in physical systems" C.A. Alves, Univ of Oxford, Trinity Press (2005)

[14]"Geometrical view of quantum entanglement" A. Ramˇsak, EPL, 96 (2011) 40004

[15]"Quantum Entanglement: Detection, Classification, and Quantification" R.A. Bertlmann, UniversitÄat Wien (Oct 2005)

[16]"Fiber-Optic Sources Of Quantum Entanglement" Prem Kumar, Xiaoying Li, Marco Fiorentino, Paul L. Voss, Jay E. Sharping, And Geraldo A. Barbosa, Northwestern University (2002)

[17]"Experimental Simulation of Two-Particle Quantum Entanglement using Classical Fields" K. F., J. E. Thomas, Phys Rev, Vol 88 (9)(2002)

[18]"Quantum Mysteries Disentangled" Ron Garret, unknown press(2001)

[19]"Building Up Space–Time With Quantum Entanglement" Mark Van Raamsdonk, International Journal Of Modern Physics, Vol. 19, No. 14 (2010) 2429–2435

[20]"Experimental Implementation Of Quantum Entanglement And Hyper-Entanglement With A Fiber-Based Two-Photon Source" Jun Chen, Matthew D. Eisaman, Elizabeth Goldschmidt, Jingyun Fan, And Alan Migdall, Proc. Of SPIE Vol. 7092 709209-1 (2008)

[21]"White Light Interferometry" James C. Wyant. <http://www.optics.arizona.edu/jcwyant>

Pathway of Experimental Outcomes leading to Control of Space and Time

NIST develops Quantum Entanglement properties database and relational tools

University Alliance created with interactive coordination with all schools (ed.gov)

Schools begin contracting with students – full support in exchange for 5% of all earnings

Cited Government Departments coordinate under 6-Sigma Concepts

Focus upon industry funded research and related business developments

NIST indirectly guides shortest-path development for controlling space/time/gravity

The following a outcomes, not individual developments:

1: Discern the difference between breaking an entanglement and the combination of test and measurement entanglements.

2: Determine a method of monitoring entanglements without measurement changing outcomes.

3: Create a method of breaking entanglements.

4: Create a functioned loop of entanglements by breaking all other entanglements with a segment of a system of entanglements.

5: Identify the similar functioned entangled loops associated with White Matter

6: Identify the similar functioned entangled loops associated with Dark Matter

7: Create an entangled connection between White and Dark Matter to provide a stable memory state (MEMss)

8: Determine a method for identifying the individual segments of entangled loops.

9: Create an independent loop of entanglements.

10: Create a method of attaching a single entanglement to a junction between two separate loops of entanglements.

11: Create a triggered and latching MEMss to capture asynchronous states of parallel processing

12: Create two separate functioned loops of entanglement and attach an entanglement at specific junctions of two separate functioned loops of entanglement; and, provide a MEMss to capture an event.

13: Capture and analyze functioned entanglement loops to derive Mass, Time, Space, and Gravity functions

14: Create similar functioned loops of entanglement in four independent quantum singularities

15: Install MEMss connections at points of interest

16: Create "neural network"-like systems in conjunction with functioned loops of entanglements to provide the basics of quantum physics in the contrived Universe.

17: Seed crystalline-like growth of contrived Universe (Big Bang); i.e. self-forming functions shaped by constants provided by functioned entangled singularities

18: Capture events MEMss (event trap) to evolve knowledge for our own Universe

19: Iterate to provide tools for interacting with our Universe