

Future Energy

Tenth Conference On Future Energy Program



**Tenth Conference on Future Energy, Crowne Plaza Hotel in Albuquerque NM,
August 10-11, 2018**

In Cooperation with TeslaTech, LLC and ExtraOrdinary Technology Conference

Integrity Research Institute

Tenth Conference on Future Energy (COFE10)

Integrity Research Institute, 5020 Sunnyside Ave., Suite 209, Beltsville MD 20705

PROGRAM: **Schedule, Titles, Abstracts** (1st Section) and **Biographies** (2nd Section)

Held at the Crowne Plaza Hotel, Albuquerque NM, August 10-11, 2018. IntegrityResearchInstitute.org is the host of COFE10 but not responsible for its content.

COFE 10 Final Schedule updated 7/15/18

Time	<u>August 10th Friday</u>	<u>August 11th Sat.</u>
9 am	Moray King	Mike Gamble
10	Bill Alek	Bob DeBiase
11	Glen Rein, PhD	Larry Deavenport
12	LUNCH	LUNCH
1 pm	Josh Reynolds part 1	Suzanne Price
2	Josh Reynolds part 2	Brian Anderson
3	Gwen Holdmann	Elaine Walker
4	Virgil Perryman	Dr. Thorsten Ludwig
7	Brian Anderson	Dr. T. Valone and Brian Ahern

Abstracts (in order of scheduled appearance) **Abstracts**

Ion Oscillations (9 AM FRI)

Moray B. King



There are two approaches to cohere the zero-point energy (ZPE) using plasma: 1) Abrupt electric discharge, 2) Oscillate the plasma ions. The abrupt electrical discharge typically results in production of microscopic ball lightning, extensively researched by the late Ken Shoulders who called them “electrum validum” (EV) and later “exotic vacuum objects” (EVO) when he became convinced they trapped excess energy from the quantum vacuum. The principle of harvesting excess energy from plasma ion oscillations was manifested by the inventions of T. Henry Moray and Alfred Hubbard in the 1920’s. In 1990 Paul Brown appeared to have successfully replicated Hubbard’s invention and attempted to commercialize it, calling it a “resonant nuclear battery.” All inventors used weak radioactive material, typically 1 millicurie of radium, to maintain glow plasma. The electrical circuits were tuned to oscillate at the ion-acoustic frequency of the plasma where huge (kilowatt) energy manifestations would occur. Nuclear power was not the explanation since the weak radioactive material could only provide milliwatts at best. Moreover, T. H. Moray claimed to produce “cold current” where appreciable power could be guided by thin electrical wires without heating

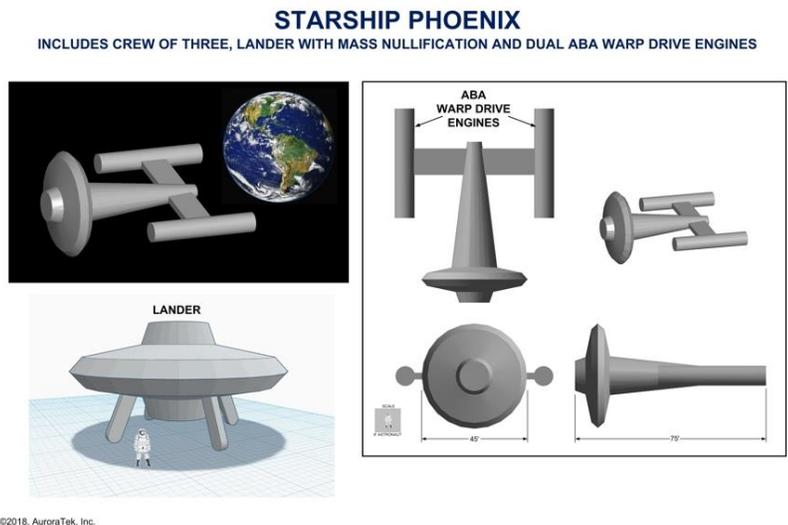
them. Details of the inventions of T.H. Moray, Hubbard, and Brown will be presented to show how the ion oscillations in a plasma tube or within a coil could coherently guide the zero-point energy into oscillating displacement current, which surround the conductors to manifest the cold current phenomena.

Introduction to FTL Starship Design (10 AM FRI)

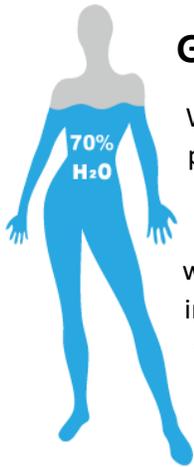
William Alek

There are two design concepts that must be understood to accomplish Faster Than Light (FTL) interstellar space travel. The first design concept is mass nullification of the crew compartment and the second is a propulsion technology applied to the crew compartment. It is understood there is an upper speed limit to space travel, which is the speed of light. According to Einstein's Special Relativity (1905), no object with mass can approach this upper speed limit without expending a huge amount of energy. However, if the mass of the object were reduced to zero, or mass nullified, the object is therefore not subject to limitation of Special Relativity. In relation to Mach's Principle, the inertia of the object without mass is considered *disentangled* from the universe, and is free to move in any direction at any speed including far beyond light-speed barrier. Mass nullification of the object is not a propulsion technology.

Therefore, the second design concept requires a propulsion technology applied to a mass-nullified object. A preferred method of propulsion is the inertialess Warp Drive Engine technology.



QUANTUM INFORMATION STORAGE IN WATER (11 AM FRI)



Glen Rein, PhD Quantum-Biology Research Lab

Water treated with an electromagnetic (EM) field produces specific alterations in its physical, chemical and electrical properties. The phenomena of water memory refers to the fact that these changes last for weeks and months even after the EM field is removed.

One popular theory to explain this memory phenomena is that "information" associated with an EM field, or a chemical, is stored in water clusters which are formed from individual molecules spontaneously clustering or self-assembling. More recent theories suggest that information is stored in quantum domains and requires the presence of longitudinal fields in addition to classical EM fields. The ability of water to store frequency information will be discussed from theoretical and experimental perspectives.

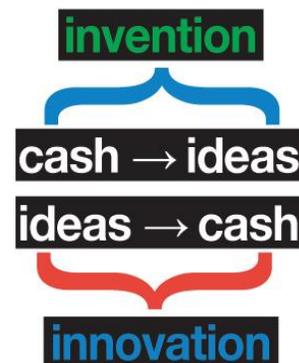
Water imprinted with frequency information generated from PEMF devices, scalar devices and the human body and measured using impedance spectroscopy. Certain subtle energy devices were capable of enhancing the imprinting process. In some cases, the imprinted frequency could be measured at the imprinted frequencies, but in other case the measured frequency shifts. The results will be discussed in terms of quantum field theory and frequency hopping both described in the quantum physics literature.

Experiences with New Energy Research & Unusual Experiments

(1 PM FRI)

Josh Reynolds

- T Townsend Brown (& C Brush) experiments: Josh Reynolds raised over \$1M in 1983 to fund R&D on TT Brown's "petro-voltaics" (PV) based on his later life focus on "gravito-electrics" (vs earlier work on electro-gravitics & his flying foils). Townsend's discovery of the works of Charles Brush re his research on the anomalous phenomena of certain heavy metal silicates opens the door for advanced PV, "quantum noise flux" devices and beyond.
- Illya Prigogine – negentropic self-organizing systems (protozoa to traffic patterns, diurnal, sidereal & cosmic periodicities)
- John Bochrus (Texas A&M, Pons & Fleishmann)
- George VanTassel (Integratron) & alien channel?
- Georg Lakhovsky (MWO), K McClean (pulsed 1ft core Mag Coil)
- Jack Schwartz – Aura Man
- W Reich & Trevor Constable (& George McMullen)
 1. EM & ES healing
 2. EM & ES propulsion
 3. ZPE i.e., free energy
 4. Neuro-feedback, brain training & bio entrainment (e.g., CES, tCDC, tCNS, etc.)
 5. The Cognometer – measuring intelligent brainpower with (computerized) mental speed of processing tests



Alaska's Center for Energy and Power is a Model of Sustainable Technology (3 PM FRI)

Gwen Holdmann

To create a forum for energy stakeholders to share ideas and information with the goal of promoting economic development, environmental sustainability and energy security for Alaskans. Greenhouses work even in Alaska, for example. And there are inexpensive ways to do so with passive solar boxes, heat sinking and thermal mass storage. Find out how to construct and use a three-season greenhouse and how to create and use biochar, a product of anaerobic combustion of biomass that can improve nutrient regulation in agricultural soils. Alaskan residents spending time 'off the grid' often forgo luxuries such as hot water heaters and other high-energy devices. However, there are energy sources available for camp, cabin or being off the grid. Learn about different types of energy devices and how to manage your fuel supply. Discussion will focus on examples (and video) of devices such as solar cells, small wind turbines, micro hydro, battery banks, rocket stoves and local inventions. The Alaska Rural Energy Conference, which brings hundreds of Alaskans together, is a three-day event offering a large variety of technical sessions covering new and ongoing energy projects in Alaska, as well as new technologies and needs for Alaska's remote communities.



Heat Battery/Engine – Amazing Zero Pollution Technology (4 PM FRI)

Virgil Perryman

Our Heat Battery is a new disruptive technology. We developed a commercially tested grid-scale battery system that, compared with the best lithium ion battery,

- stores 10x the energy,
- uses 1/10th the space,
- costs 1/10th the price and
- weighs less than half of competitors' grid-scale electrical batteries.

A short intro **one-minute video** is online and well worth viewing:
<https://tinyurl.com/heat-turbine> .



Our technologies can be adapted to provide heat, air conditioning and cheap electricity, collected from waste industrial heat, solar thermal, solar photo-voltaic, night time electricity from the grid, wind farms, etc. Our technologies offer a cost-effective method to retrofit existing coal fire power plants and gas peakers with zero-emission power generation at than half current costs. Our heat battery technology can retrofit any diesel engine of any size in ships, trains, rail, busses, trucks and cars, totally eliminating combustion, all particulates, CO², CO, NOX, SOX and even reducing noise and thermal pollution. It can retrofit any gas turbines, jet engines and electrical generation equipment to be zero-emission.

Gyroscopic Linear Movement from a Controlled Moment Gyro (9 AM SAT)

Mike Gamble

A follow-up report on the replication of Boeing's Control Moment Gyro (CMG) project which this engineer worked on for years. The CMG keeps the ISS and many satellites in orbit, by providing a linear force from an electrical input, all done in the vacuum of space. The goal of this project, also partially funded by IRI, is to produce a working tabletop prototype that reproduces a miniature version of the room-sized CMG which Boeing developed and has used for decades. At COFE9, the first breakthrough was reported with the early prototype demo, exhibiting a 0.43 lb. average linear, unidirectional force when the force equation calculation predicted a 0.40 lb. force, which is within 10% of theory! By reducing the mass of the structure and increasing the rectifying force of the scissoring gyros, it is hoped that the dual gyro model will visibly move across a level surface when the switch is turned on. History is being made with the development of this civilian force generator, good for land, air, and space transportation applications.



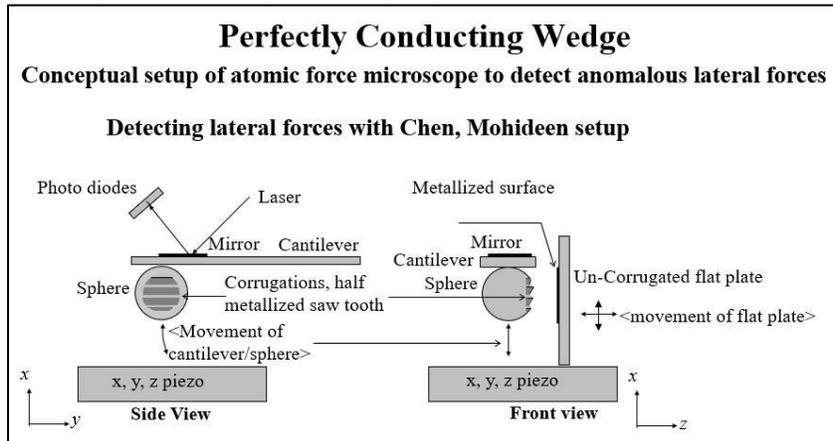
UPDATE ON QUANTUM FIRE PROJECT (10 AM SAT)

Robert DeBiase

The Quantum Fire Project seeks to bring perhaps the most disruptive technology since the harnessing of Fire to the market place – a Force Cell that extracts external forces from the Quantum vacuum by means of the Casimir effect. External forces are predicted for Casimir scale wedges as a result of ordinary electromagnetic theory – and the theory has been advancing since the late 1970s with numerous papers having been written by multiple authors. These results were ignored in the NASA Breakthrough Propulsion Project in the mid-1990s through the early 2000's but attitudes may be changing. (Ed. Note:

this project has received IRI support, with the project goal of independent movement from a well-designed asymmetric Casimir force, as predicted by theory.)

The Project has been proceeding in phases.

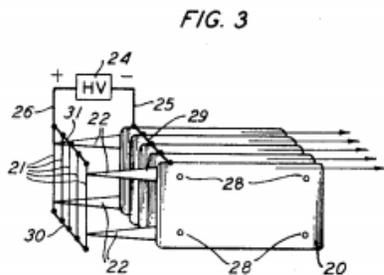


- Phase 1 - Identify a compelling scientific problem.
 - Phase 2 - Experiments to confirmation scientific feasibility
 - Phase 3 - Demonstrate technical feasibility
 - Phase 4 - Scale up to commercial usability (assuming demo and experiments work)
- Progress continues to be made for Phases 1 and 2 and even a little progress has been made on Phase 4 in the form of a pending patent.

Townsend Brown's Turbofan Electrostatic Generator (11 AM SAT)

Larry Deavenport

There has been much written about Townsend Brown's patent #2,949,550 regarding his electrokinetic apparatus. Although this design demonstrated the electrogravitics effect to Brown enthusiast, and the most renown, he said



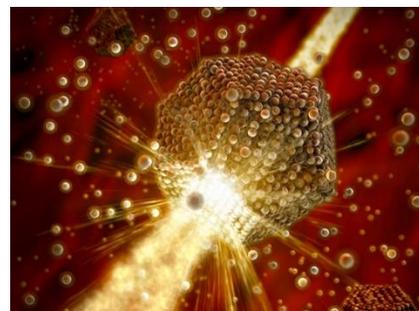
this design was inferior to previous and later airfoils. The design of his later airfoils more probably looked like the design in his later patent #3,022,430. While working on his electrokinetic engine during his Project Winterhaven experiments, there was a parallel research project in a search for the best way to power his engine in flight. Brown knew that a heavy transformer type HV power supply would be too heavy and impractical for his aerospace vehicle. He knew that a jet engine turning a large generator would not work well either. The concept of a fan jet type of generator was the best solution for this problem. It will be this generator that I shall focus on in this lecture. After Brown's

retirement from the navy he began working at Lockheed Vega in the Los Angeles area. Throughout the 1950's Brown concentrated on improving the design of his disc. Through the help of a colleague Brown was able to arrange a demonstration for Admiral Arthur Radford, Chief of U.S. Pacific Fleet at the Pearl Harbor Naval Yard. Two years later a General Vic Berrandias attended a demonstration at Brown's Laboratory for some of his colleagues. The advancement of his airfoils left him bewildered. Maybe because the U.S. Air Force was in a secret top-secret program with antigravity projects and General Berrandias felt encroached upon.

NanoCrystal Electricity Technology (1 PM SAT)

Suzanne Price

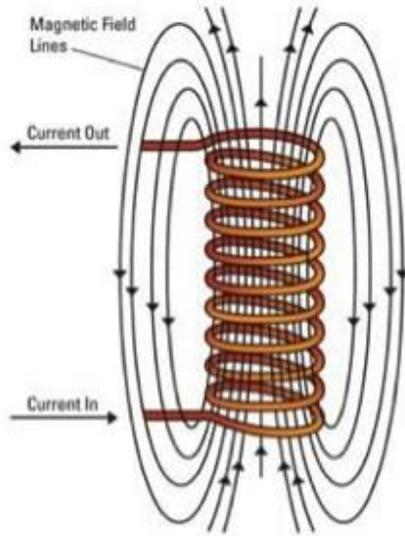
Tesla's Wardencllyffe Tower and his dream of worldwide wireless energy were destroyed in 1917 by J. P. Morgan, and his work was publicly shunned for the next 25 years by the powerful titans of American industry. Free energy, tapped from the aether that surrounds us, would have shattered their profits. Recently, a new technology emulating the Wardencllyffe system has resurrected the hope of worldwide wireless power. One hundred years later Tesla's dream could be coming to fruition with an ironic twist by the breakthrough introduction of NanoCrystal Electricity technology and an



FCC-approved receiver device. Inspired by Tesla’s Wardencliff Tower, NCE creators claim it’s a revolutionary method of dynamic charging based on the new technology and radio waves that can provide power anywhere and everywhere. The famous physicist, Stephen Hawking, in response to the new technology reportedly said, “It’s about to change your life.” The presentation will explore the new NanoCrystal Electricity technology: How it works; how it supports an understanding of free energy; and, how it parallels Tesla’s original Wardencliff vision. NCE technology reveals new information that promises to enhance the research and development of many other future energy projects. *“The present is theirs; the future, for which I really worked, is mine.” – Nikola Tesla*

Nano-Oxygen Accelerator (2 PM SAT) Brian David Anderson

A low voltage frequency pulsing through a copper wire coiled around metal oxides spread on a three-inch



diameter cardboard tube is revolutionizing health care. This “open” Tesla coil carrying a wide array of weak frequencies separates the oxygen ions from the metals. The patented configuration is a key feature of the device called the Nano Oxygen Accelerator (NOA) that both detects and releases the large oxygen molecules involved with the condition known as inflammation. NOA also has the ability to balance and stimulate the biological processes in human and animal intestines and colons. This presentation demonstrates techniques to detect both hidden and overt inflammation in the body with the revolutionary use of two “open” Tesla coils. Tesla probably never envisioned the benefits of an “open” Tesla coil

yet his basic discovery delivers a new level of benefits.

MATTER OVER MIND: COSMOS, CHAOS, AND CURIOSITY (3 PM SAT)

Elaine Walker



It is hard to imagine humanity mastering reality and advancing gracefully into the future until we confront the internally inconsistent major philosophies of our time, both political and spiritual. Our current major philosophies—most of them at least—are outdated and confusing. If our youth aren’t confused, they should be. It’s my style to get down to the fundamentals, and I mean fundamental science; the way we have come to find that the natural world works. We can live solely through our loose, interpretive abstract thought, which does not reflect how the natural world works one iota, or we can learn to respect nature’s ways, and live in that mental place where logic and compassion are woven together in a robust

partnership; one which will last us into many future millennia. I have written a book in order to help others learn to do the latter. My new book, *Matter Over Mind* begins with a thought-provoking journey through the Cosmos to illustrate the startling contrast between nature’s chaotic but rich processes, and the human mind’s organized but underperforming habits. This book reveals how humanity could achieve even greater heights if we allow ourselves to rethink how we think. Chaos theory, which is wonderfully explained in this

book, is a foundational recipe in nature and large group behavior. Abstract thinking is the opposite force that leads to frustrating inconsistencies in society and even limitations in technology. Viewing the world through both lenses illuminates the deeper dynamics of the world and a better way forward for humanity.

Highlights and Significance of the Conference on Future Energy (COFE) Series (4 PM SAT)

Dr. Thorsten Ludwig

*German Space Power Association (DVR) and
Berlin Institute for innovative Energy and Propulsion
Technologies (Binnotec)
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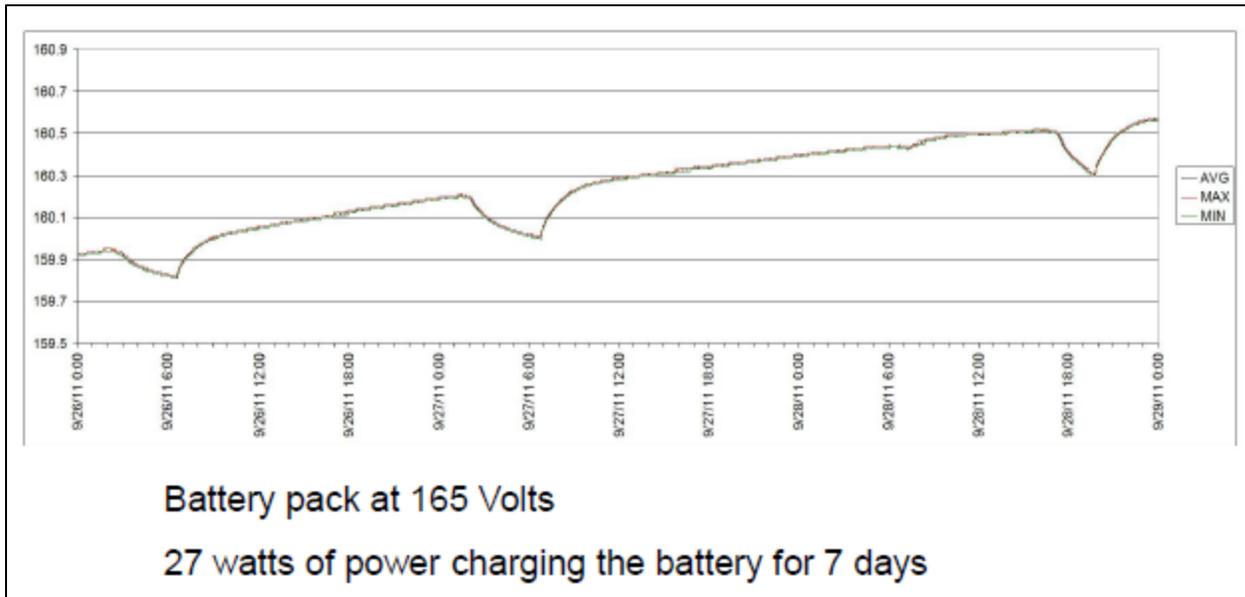


The conference on future energy is a wonderful and special conference series that combines far out new ideas, scientific excellence and down to earth practical approach. Over the years many interesting ideas were presented. The highlights of the COFE 2 to COFE 9 will be presented and the significance and importance of the COFE conference series in particular and the new energy field in general will be emphasized. The presenter has participated in most of these conferences and will give the international perspective and will enrich the talk with information on interesting project in Europe and other parts of the world. Also the joint ventures of Dr Ludwig and the Integrity Research Institute will be mentioned. Currently these projects are on tapping Zero-point energy via the lateral Casimir effect, together with Robert DeBiase and a single electron spin experiment in cooperation with Prof. Ron Brian from Texas A&M University. In this project the energy of a single electron spin is studied in order to find details on subtle influences and the interaction of mind and matter.

VACUUM ENERGY VIA NANOTECHNOLOGY: MANELAS DEVICE DESCRIPTION (7 PM SAT)

DR. THOMAS VALONE AND DR. BRIAN AHERN

The Manelas Device presents a solution to fossil fuel use. Strong experimental evidence; the conundrum is that the output is too good to be true. The source of the energy is undetermined but nanograined $\text{SrFe}_{12}\text{O}_{19}$ is hypothesized since EDAX analysis of the solid billet uncovered strontium ferrite as a major ingredient of the "battery." The battery has operated for 20 months and continually lit a 60 watt bulb. One anomaly is that the battery does not cool during operation but the billet itself does lose heat and cools down, which appears to be some type of energy conversion from the environment. Manelas has since passed away and this slideshow is from Brian Ahern who spent months working with Manelas and his device, along with his analysis of the billet contents. Very challenging energy generation information that defies debunking or fraud. Dr. Valone will present some of the physical properties of the strontium ferrite billet, which must contribute to an explanation of the excess energy output. Energy localization is a process that offers an apparent route to circumvent the Second Law of Thermodynamics. This process is a feedback mechanism that is only operational between 5 - 15 nanometers. Nature has evolved to take advantage of this energy transfer mechanism as all enzymes have at least one of their dimensions in this size regime.



The Manelas technology challenges our understanding of the Laws of Thermodynamics. The discovery of energy localization in 1997 offers a viable pathway for novel energy transfer mechanisms. This results from nonlinear interactions in specific materials systems. Energy Localization is a feedback effect that accounts for all biological systems and is the central mechanism for superconductivity and ferromagnetism. Of course, the possible vacuum energy source coupling to the nanostructure of the crystal billet will not be ignored. Brian Ahern, who worked directly with Manelas before his passing, will take over after Dr. Valone's introductory overview.

Biographies (in alphabetical order by last name) Biographies

Brian Ahern

Vibronic Energy Technologies Corp. 14 John Francis Lane, Acton MA 01720 Ahern_brian@msn.com

Brian's chronological bio is below:

- 1975 Univ, of Vermont M.S. Thesis: Superconductivity n the PDH – PdD alloy System
- 1983 MIT PhD, Thesis topic: InP semiconductor Crystal Growth
- 1987 Lead scientist on DoD investigation of high temperature superconductors
- 1988 recommended zero funding for room temp superconductors to DoD - all programs cancelled
- 1985-1997 USAF resident expert on nanomaterials
- 1994 National award for technology transfer – Efficient light emission
- 1995 National Technology Award - semiconductor processing
- 1997 discovered energy localization
- 2008 Second Prize DOE sponsored competition on Clean Energy
- 2009 – 2012 PI EPRI contract on LENR
- 2011 Evaluated Manelas Technology after meeting with Mr. Manelas.

William Alek



William Alek is President and CEO of AuroraTek, Inc. AuroraTek is dedicated to bringing forth advance and exotic FREE Energy Self-Sustaining Technologies to the world. William is the inventor of the SmartPAK™/ SZT™ FREE Energy / Overunity Energy Management System. William has more than 30 years of experience as an embedded computer hardware, electronic hardware and software engineering consultant, and has a BSEE degree from IIT Chicago, Illinois (1979).

William can be contacted at:

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WEBSITE: <http://AuroraTekEnergy.com>

ADDRESS: 10645 N. Tatum Blvd., Ste C200-436, Phoenix, AZ 85028

Brian David Anderson

Inventor and explorer, Mr. Anderson has presented at many conferences over the past few decades. He has specialized in the biological applications that benefit health and well-being.

Larry Deavenport



Larry Deavenport is a native Texan married to his best friend of ten years, Delisa. They call the beautiful Texoma rural town of Denison their home and have two grown children, Jarred and Jeni. Over two years ago, a cotton top bundle of love named D. J. came into their lives and has unmistakably revealed Larry's true purpose in life – simply put - being "Granddad". Larry has always had an inquisitive mind when it came to the subject of all things physics, even as early as elementary age when he was first exposed

to Townsend Brown's work with gravity and antigravity concepts. To further his curiosity, Larry attended the Texas State Technical Institute studying electrical, mechanical technologies and instrumentation. Beginning in the 1970's, Larry's research took him into the world of all things electrogravitic and in 1994 he built a model replica of Brown's electrokinetic apparatus. Larry presented his continuous research findings at the 1996 International Tesla Society's Conference, the 1997 International Energy Conference and the 2005 Tesla Tech Utah Conference. Retiring from a 34-year career at ASARCO in 2009, Larry has even more time to spend on research. Larry is active in his community humanitarian efforts with United Way, Red Cross and Hunger causes and is an active member and officer of the local Toastmaster club. Larry's latest adventure, is to build Brown's Flame Jet Generator. Believed to be the first person in the private sector to do so, Larry is eager to document his findings and demonstrate this exciting endeavor.

Robert DeBiase



Bob DeBiase is retired from Telcordia Technologies which was previously Bellcore which in turn was split off from Bell Labs at divestiture in 1984. There at he did system testing of large computer systems, developed software systems for the Quality Assurance department and finally developed software for the Software Solutions department, for a total of twenty-three years. He obtained a Bachelor of Physics degree from Carnegie Mellon University in 1967 and a Master of Science degree in Computer Science from Stevens Institute of Technology in 1983. He is currently an independent researcher who has published original papers in the Journal of the British Interplanetary Society and Elsevier's ScienceDirect Physics

Procedia. He has presented papers on SETI, space solar power and the Casimir Effect at previous International Space Development Conferences as well as at various International Astronautical Congresses and the IAS-SPES conferences of 2010 and 2012 as well as COFE 7 in 2015 and COFE 8 in 2016. His current interest is the Casimir Effect and whether it might enable a future propulsion system.

Mike Gamble

Michael Allen Gamble was born in Fergus Falls, MN back in 1952. Married to Ellen for the past 25 years and have two teenagers. Put in 5 years as a Chevy Mr. Good Wrench and then went back to college.



Earned a bachelors degree in electronics engineering at Northrop Institute of Technology, CA, graduated magna cum laude in 1978. Worked 10 years for a number of small companies. One in the wood products industry as a field service engineer (racked up 600,000 miles travel) and another in automotive fuel injection design and MFG both here and in China. Worked at Boeing Sept 11 1985 and retired in 2017. Over the past 29 years I have worked many programs for Boeing commercial and a number of classified aerospace ones. Last

assignment was in a (BR&T) Boeing R&D group with smart material (Nitinol / Piezo) actuators in order to bend (morph) structures like rotor blades, engine nacelles, wings, flaps and rudders. Worked as well with the Control Moment Gyroscope Program of Boeing's that was a trade secret until permission was obtained to present its history at COFE.

Gwen Holdmann



Gwen is the Director of the Alaska Center for Energy and Power (ACEP), which is an applied energy research program based at the University of Alaska Fairbanks focusing on both fossil and renewable/alternative energy technologies. ACEP's mission is to develop and disseminate practical, cost-effective, and innovative energy solutions for Alaska and other regions with similar energy struggles. As Director of ACEP, Gwen spearheaded the creation of several programs within the organization to help it accomplish its goals. These programs vary in purpose and scope and have allowed ACEP to delve into research specialties such as hydrokinetics, power systems integration with a focus on microgrids, development of innovative data collection techniques, and creation of economic analysis for a variety energy related purposes. Prior to joining the University of Alaska, Gwen served as the Vice President of New Development at Chena Hot Springs Resort near Fairbanks. While at Chena, Gwen oversaw the construction of the first geothermal power plant in the state, in addition to numerous other innovative energy projects ranging from hydrogen production to cooling a 10,000ft² ice museum year-round using 150°F hot water. Gwen has been the recipient of several awards throughout her career, including an R&D 100 award, Project of the Year from Power Engineering Magazine, the Alaska Top 40 Under 40 Award.

Moray King

Moray B. King is an internationally known physicist, author and speaker with specialties in Zero-Point Energy, Tesla Technology and Quantum Physics, besides computer programming. He's the author of **'Tapping the Zero-Point Energy'**, **'Quest for Zero-Point Energy'** and **'The Energy Machine of T. Henry Moray'**. (All published by Adventures Unlimited Press)



[http://peswiki.com/index.php/Video:Water as Fuel \(via ZPE\)](http://peswiki.com/index.php/Video:Water_as_Fuel_(via_ZPE)) . His latest book is **Water, The Key to New Energy: Cavitating Electrolyzers & Zero-Point Energy**, which is on Amazon and available at the conference bookstore.

Dr. Thorsten Ludwig

Dr.

Thorsten Ludwig currently works as a researcher at the Berlin Institute for innovative Energy and Propulsion



Technologies. He is studying the Casimir effect in his laboratory in Berlin. The experiment uses state of the art nanopositioning, an atomic force microscope (AFM) and vacuum equipment to make use of the change in quantum field background radiation. He recently expanded the AFM use it for magnetic force microscopy and to study the fundamentals of magnetism and its connection to quantum field radiation. Dr. Ludwig is currently the president of the German space power association. Since 2011 he works together with Prof. Ron Brian and Markus Fromm on the mental control of a single electron experiment and builds a Magnesium ion trap. Dr. Ludwig has a Dipl. Phys. in Physics from the Technical University of Berlin, (2001), and a Doctor of natural Science (Dr. rer. nat.) from the Technical University of Berlin, (2005), both with highest excellence. Dr Ludwig worked from 2008 to 2010 as a project developer for the energy research centre of lower Saxony and for Prof. Beck

at the institute for Electrical Power developing project in the field of new energy technologies. In 2009 he cofounded the Institute of applied consciousness research together with Dr. Marco Bischof and Marcus Schmiede and constructed and conducted experiments with Kozyrev resistor and torsion devices, pH measurements with Prof. Tiller and influences on random number generators. Since 2006 Dr. Ludwig works as an independent Consultant for new energy projects and was involved in project in Germany, Turkey, India, Qatar and Mexico. He measured energy efficiencies, designed and conducted research projects and helped in developing promising technologies. Dr. Thorsten Ludwig has participated in a large number of international conferences on future energies. In 2005 Dr. Thorsten Ludwig, Dr. Marco Bischof and Dipl.-Ing. Andreas Manthey published a study on new energy technologies for the German government. The study focuses on the use of innovative unconventional technologies in developing countries (BMZ E 5001-15).

VIRGIL D. PERRYMAN Jr.

Virgil Perryman is the founder of and inventor behind Perryman Technologies. Virgil has had an extensive career that has culminated in the development of key patents in the areas of collection, storage, and application of thermal energy. These patents protect the technology used in the Perryman Battery™, Perryman Troughs, dishes, Perryman Micro Panels, and many globally important applications of his inventions. Virgil's undergraduate degree was from Fisk University. He holds two specialist Masters Degrees, one in Process Engineering and the other in Botanical Chemistry, from the University of Paris. He also has an Executive Certificate in technical law from INSEAD in Belgium. Over his career, he has lectured and engaged in collaborative research with many universities including MIT, Russian Academy of Science, and COMPS at the University of the Witwatersrand. Virgil is also fluent in English, German, French, Spanish, Swahili, Motu and Tok Pisin. Virgil is a problem solver, over his long career the specific task would vary, but the mission was constant. That is, find out what was the core problem and then find a viable and sustainable solution. What Virgil put into practice solving hundreds of problems was his deep understanding of 'how the thing worked' and 'how things, people, systems and enterprises interact'. His experience growing up in a multicultural environment and his keen interest in almost everything underpinned this. Virgil has worked in large US-based international corporations including Proctor & Gamble, 3M, and the ITT (International Telephone & Telegraph) Corporation and a number of its subsidiaries. He has also been involved in setting up companies around the world including; initiatives in Papua New Guinea involving solar energy, housing for indigenous people, and fuel from wild sago and cassava; a firm that provided geothermal and wind power systems to generate heat and electricity for hotels in Eastern Europe; oil shipping and refining based in the UAE; designing off-grid refrigeration facilities, solar based food drying systems, and telecommunications in East Africa; and a waste-to-energy project in Honduras and Costa Rica.

Suzanne Price

Suzanne Price is a visionary thinker, cultural anthropologist, independent researcher, and professional presenter. In 2007 a long-time interest in Nikola Tesla's work inspired her to research and develop an integrative theory called, Qualar Physics, supported by an interpretive model that explores the quantum links between science and universal spirituality. This original theory integrates many ideas from physicists, mathematicians, engineers and philosophers including Tesla's photon/resonance theory of physics and Walter Russell's Universal One. As a result of her inquiry over the last decade, she advocates a scientific paradigm shift that embraces a much more comprehensive approach to understanding the Creative Life Force called "energy". Her academic background has also engendered a keen appreciation of cultural transformation via technological achievement. She believes clues to energy breakthroughs can be gleaned from the study of ancient advanced civilizations as reflected in some of her lectures. Suzanne received a B.A. magna cum laude, University of Wyoming, and M.A. in cultural anthropology from Tulane University. She is currently authoring a book to introduce Qualar Physics and has been a frequent presenter at TeslaTech Extraordinary Technology Conferences, Society for Scientific Exploration and similar forums.

Dr. Glen Rein

Dr. Rein received his PhD from the University of London and pursued his academic research interest in neurochemistry and psychoneuroimmunology at Harvard and Stanford Medical Schools culminated in an Assistant Professorship at Mt. Sinai Medical School in New York where he researched Bioelectromagnetics. In the late 1980's he established the Quantum-Biology Research Lab which focused on the biological effects of non-classical electromagnetic fields, including those emitted from healers. In addition, Dr. Rein began his research studying the effects of these forms of subtle energy on water. In 1995 he joined Estee Lauder's New Venture department to put 'energy' into their products. He has authored nearly 50 academic articles and scientific patents. Dr. Rein is on the board of numerous international organizations, has been on several radio and TV shows and lectures world-wide on his pioneering research. Recently he formed Glee Biologics which is developing water based commercial products imprinted with energetic information for nutraceutical and agricultural applications.



Josh Reynolds

Reynolds is best known for his pioneering efforts in the successful innovation and development of new products and technologies in the fields of: biofeedback and stress management; air ionization; molecular electronics; exercise physiology; cognitive assessment and enhancement; brain (neuro) nutritional anti-aging sciences. His new product inventions and technologic developments include: the Biofeedback Stress Card (based on principles of psycho-physiology); The Mood Ring; EnergAire, the first desk top air ("negative") ionizer; Cognometer, one of the first clinically (Stanford) validated computerized cognitive assessment software programs based on millisecond resolution of "brain speed" across key neuro-cognitive domains; THINKfast, first online *brain speed* exercise (cognitive training) software program, eg, Lumosity, and; the following clinically validated brain performance enhancing supplements, *MemRx*, *BrainSpeed*, *Procera AVH* and *Ceretrophin*. Reynolds was one of the major early pioneers in the development and market introduction of computerized, web-enabled, brain speed (cognitive performance) test (assessment) and training (enhancement) technology. His patented Cognometer was validated by **Stanford** (for early detection of memory loss) and used by medical schools, clinics and physicians ([inc., Scripps, UC Irvine, Kaiser Permanente, Cenegenics, et al](#)) for the detection (screening) of early stage, "premature" memory loss, the assessment of cognitive status, and quantification of cognitive performance changes induced by pharmaceutical and nutraceutical agents. Reynolds has conducted a variety of the first online clinical studies for pharmaceutical and nutraceutical companies (including, Univera & Natrol). Mentors, partners,

friends and recipients of his funding include: T Townsend Brown, Ilya Prigogine, Joseph Yater, Andrija Puharich, George Van Tassel, John Bockris (TX A&M, “cold fusion electrodes”), John Lamb (CalTech) and others, with a common goal of advancing new technologies for the enhancement of individual health & longevity and global energy efficient technologies. Reynolds is lesser known for his pioneering works in a class of alternative energy technologies known as ZPE, “free energy” (technology & devices). Related accomplishments are listed below:

- 1- **Pioneer in the biofeedback & stress management field.** Developed biofeedback devices and conducted stress management seminars with Fortune 100 companies including Johnson and Johnson (~1975). Taught drug rehabilitation via stress management. Recognized as original developer of the “Stress Card”, widely used in corporate and medical stress management programs for over 30 years. Featured on national and regional TV, including the Merv Griffin show as expert in biofeedback and stress management, and self-control.
- 2- **Pioneer in molecular electronics** (forerunner of biochip & biocomputer), Founder, Molecular Electronics Corp. (MEC). Worked with; **C Lester Hogan**, (Founder Fairchild Semiconductor), **Jack S. Kilby**, (Nobel Laureate 2000 & inventor of the integrated circuit) and **Ilya Prigogine** (Nobel Laureate, 1978), all of whom served on MEC’s Scientific Advisory board.
- 3- **Pioneer in the field of air ionization** Invented EnergAire™ the first desk top negative ion generator. Breakthrough innovation in generation of 20,000 volts in small solid-state, Tesla technology-based power supply.
- 4- **Pioneer and innovator** in the fields of brain nutrition, assessment & enhancement science & technology. Worked and/or consulted with: **Vernon Mark**, MD, Harvard Medical School, Chief Neurosurgeon, Boston City Hospital; **Paul Silverman**, PhD, Vice Chancellor & Dir. Medical School, UC Irvine; **L Cass Terry**, MD, PhD, PharmD, MBA, Chairman Neurology, Wisconsin College of Medicine; **David Perlmutter**, M.D., FACN, Neurologist, Author, Recipient Linus Pauling Award; **John Polich**, PhD, Professor of Cognitive Neuroscience, Scripps Research Institute; **J. Patrick Kesslak**, PhD, Ass. Prof. Neurology, UC Irvine Medical School, Dir. Clinical Development, Elan Pharmaceutical; **Richard Haier**, PhD, UC Irvine Medical School; **Michael A Schmidt**, PhD, leading expert in brain fitness, neuroscience & emerging fields of genomics, proteomics, and metabolomics; **Jonas Salk**, MD, Salk Institute; **Con Stough**, PhD & **Andrew Scholey**, PhD, Centre for Human Psychopharmacology, Swinburne University, Australia; **Keith Wesnes**, BSc, PhD, FSS, CPsychol, FBPsS, Professor of Human Cognitive Neuroscience at Northumbria Univ. Newcastle, UK, Professor Swinburne Univ., Australia, Founder **CDR**, world’s leading company and technology for computerized assessment of cognitive status and state change; other MDs, PhDs and “experts” in brain health, neuroscience, neurology and cognitive psychology.
- 5- **Pioneer in the assessment & enhancement “brain speed”**, now accepted as state-of-the art non-invasive marker of brain health and cognitive function. Mentored by **Arthur Jensen**, PhD, UC Berkeley, world’s leading expert on IQ & “brain speed”. Jensen awarded recognition as one of the 50 most eminent psychologists of the 20th century.
- 6- **Inventor** – inventions include;
 - a. ThinkFAST & Cognometer, brain speed technologies (US Pat 5,911,581, 6,435,878), used by universities, consumers, physicians and patients for the assessment, treatment &/or training and management of cognitive health and performance.
 - b. MemRx, Brain Speed Memory, Brain Speed Focus & Brain Speed Executive, Procera AVH (US Pat 8,071,610) and Ceretrophin (US Patent Pending). All 6 were clinically tested with positive results.
- 7- **Author of 20/20 Brain Power** book and published medical journal article on the nutritional support of brain health and performance (JANA 2008, Retarding Cognitive Decline with Science-based Nutraceuticals).
- 8- **Pioneer in DR TV & Print** – wrote dozens of successful print ads (e.g., EnergAire, MemRx, ThighMaster, Brain Speed, Procera AVH et al) and TV Infomercials grossing over \$150M in sales.

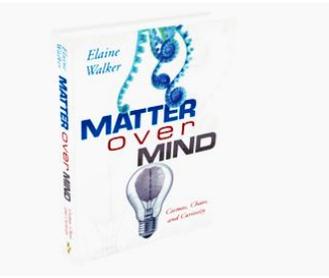
Thomas Valone, PhD, PE

Physicist and licensed professional engineer with 40 years professional experience, a patent examiner, research engineer, instrumentation and energy harvester designer, Dr. Valone is also an author, lecturer, and consultant on



future energy developments. He has a Master's in physics from the State University of New York at Buffalo, a Professional Engineer's License in NY State, and a Ph.D. in General Engineering from Kennedy-Western (Warren National) University. He is President and founder of Integrity Research Institute and formerly a physics teacher at Erie Community College and previously a Research Director for Scott Aviation-ATO, Inc. He helped design the HullCom® for naval intraship communication, a 60 Hz gaussmeter without harmonic distortion, two bioelectric therapy devices, and a dental mercury vapor ionizer-precipitator. He is editor of Future Energy, Energetic Processes Vol. I & II, Turning the Corner: Energy Solutions for the 21st Century and a few conference proceedings, as well as author of The Future of Energy: An Emerging Science, Zero Point Energy: The Fuel of the Future, Harnessing the Wheelwork of Nature, Practical Conversion of Zero-Point Energy, Homopolar Handbook, Electrogravitics Vol. I & II, Bioelectromagnetic Healing, Bush-Cheney Energy Study, Clinton Administration Energy Study and about 100 published reports and articles. He has also served as an expert witness, an expert declaration writer for court cases and appeared on CNN, A&E, History and the Discovery Channels, besides a few commercial energy videos. He has been a keynote speaker for both the Earth Transformation and the Whole Person Healing Conferences as well as a visiting scholar for Humanity 3000 Symposium at the Foundation for the Future in Seattle, WA. The World Future Society and the American Institute of Aeronautics and Astronautics (Joint Propulsion Conference), to name a few, have also served as a platform for his presentations. National Philosophy Alliance has posted a Valone biography and book summary online. Currently, Dr. Valone is a member of the Institute of Electrical and Electronic Engineers, the Bioelectromagnetics Society, the National Space Society and the Union of Concerned Scientists. He is also a Fellow of the World Innovation Foundation. His works have been published in German, French, Russian, Romanian, Korean, Swedish and English.

Elaine Walker



Elaine Walker is an electronic musician with a deep interest in philosophy and chaos theory. Her Masters thesis at New York University explored chaos dynamics as an organic tool to generate and "conduct" music. She is also a renowned microtonal music composer. She has had a long and varied career in electronic music, both in academia and freelance. She was the *Director of the DJ and Electronic Music Programs* at SCC in Scottsdale, AZ, until 2017. And prior to working at SCC, she was a music editor for the Pokemon cartoon for several years. Elaine has regularly volunteered for the NewSpace community, promoting the idea of humans living in space. She spent five summers in the High Arctic on the NASA Houghton-Mars Project. She is a proponent of longevity and a member of the cryonics organization, Alcor. She is also the author of a non-fiction physics/philosophy book, [*Matter Over Mind: Cosmos, Chaos, and Curiosity*](#).

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