

Tenth Conference on Future Energy (COFE10)

Preliminary Schedule, Titles, Biographies, Abstracts

Note: This is a COFE program that is a work in progress updated 5/13/18 until all of the speakers' info is entered. Thank you for your patience. Call or email the IRI office for any updates 301-220-0440. – TV

COFE 10 Preliminary Schedule updated 5/16/18

Time	August 10 th Friday	August 11 th Sat.
9 am	Moray King	Bob DeBiase
10	Bill Alek	Mike Gamble
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

Abstracts

QUANTUM INFORMATION STORAGE IN WATER

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.

Alaska's Center for Energy and Power is a Model of Sustainable Technology

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.

Ion Oscillations

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.

Townsend Brown's Turbofan Electrostatic Generator

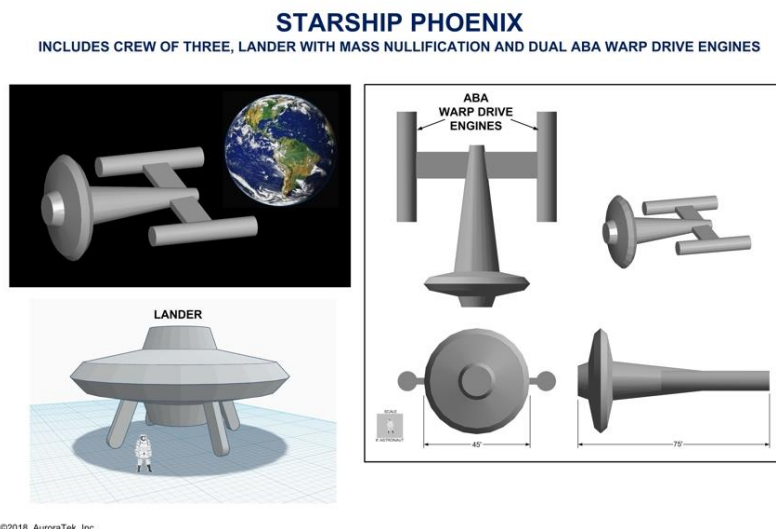
Larry Deavenport

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. Airforce was in a secret top-secret program with antigravity projects and General Berrandias felt encroached upon.

Introduction to FTL Starship Design

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.

Experiences with New Energy Research, Work & Unusual Experiments

Josh Reynolds

- T Townsend Brown (& C Brush) – Moray King
 - Ilya Prigogine – negentropic self-organizing systems (protozoa to traffic patterns, diurnal, sidereal & cosmic periodicities)
 - John Bochriss (Texas A&M, Pons & Fleishmann)
 - George VanTassle (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, et al)
 5. The Cognometer – measuring intelligent brainpower with (computerized) mental speed of processing tests

Perryman Technologies – Amazing Zero Pollution Technologies

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 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.

VACUUM ENERGY VIA NANOTECHNOLOGY: MANELAS DEVICE DESCRIPTION

DR. THOMAS VALONE

Today 85% of our country's energy comes from the combustion of dead fossils, a dirty fuel that is forcing the world's atmosphere to overheat. Just in the past ten years, the earth increased 20 ppm to pass 400 ppm CO₂ average level worldwide. However, new 21st century energy sources that produce no carbon emissions and do not contribute to global warming are now emerging. It is time to understand the carbonless diversity which offer alternatives to dead, fossilized, poisonous fuel. The Manelas Device presents just such a solution. Strong experimental evidence; the conundrum is that the output is too good to be true. The source of the energy is undetermined but Nanograined SrFe₁₂O₁₉ 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 does lose heat and cools down, which appears to be some type of energy conversion from the environment. Manelas as 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.

MATTER OVER MIND: COSMOS, CHAOS, AND CURIOSITY

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.

Biographies

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; EnerAire, 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.

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.

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.

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.

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' 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.

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.

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).

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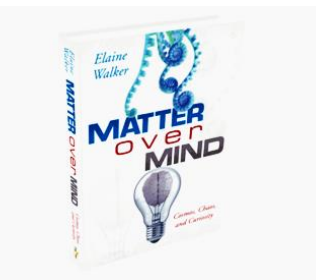
Thomas Valone, PhD, PE



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*](#).