

# Future Energy

**Twelfth Conference on Future Energy**

COFE12



## **Program**

**Conference Schedule, Titles, Abstracts, Bio**



**Hosted by Integrity Research Institute**

# 12<sup>TH</sup> CONFERENCE ON FUTURE ENERGY

August 14<sup>th</sup>-15<sup>th</sup>, 2020, 10-6 pm EDT

ZOOM Virtual Conference Online



**FuturEnergy.org**  
**FREE ADMISSION: But you must register**  
**in order to receive free link!**

**888-802-5243 or 301-220-0440 Fax: 301-513-5728**

**IRI, 5020 Sunnyside Av #209 Beltsville MD 20705**



Dean Radin PhD



Ray Fleming



Tom Valone PhD



Col. Eric Felt



Ed Storms PhD



Paul Murad



William Alek



Mike Gamble

## **SPECIAL SPEAKERS:**

**Dean Radin PhD --- Col. Eric Felt USAF**

Invited Speakers: John Brandenburg PhD - Bob DeBiase  
Dr. Thorsten Ludwig, Moray King

## Press Release

July 26, 2020

For more info: T.Valone 301-220-0440

This year, for the first time, we will be offering virtual attendance at COFE12 for FREE. It will be transmitted by **Zoom.com** and livestreamed elsewhere if necessary, depending on the registrations (100 is max for our Zoom account). Visit [www.futureenergy.org](http://www.futureenergy.org) to register for free, which is necessary to receive the email with a conference link and password. In order of their appearance:

**Steve Hampton** will be presenting on his Asymmetric Impulse Drive theory and demonstration. Thrust is generated as impulses where in space, momentum is additive. Rotary motion is converted into bi-linear oscillation of a carriage then its momentum rectified.

**Dr. Thorsten Ludwig**, who is in Germany, will still be able to join us by Zoom to present his new findings about Zero Point Energy. Casimir predicted that zero point energy can be converted into a force with simple metal configurations. Dr Ludwig is working in projects that aim to use this force for propulsion and for generating electric power.

**Dr. Tom Valone** will be presenting a summary of paleoclimatology, a surprising study of the past 400,000 years of earth's temperature, CO2 concentration, and sea levels. It offers a compelling new insight into the tightly correlated relationship between the three environmental variables which are shown to change in lockstep, closely keeping pace with each other, throughout the recent earth history. The main graph [www.tinyurl.com/400000years](http://www.tinyurl.com/400000years) was produced and published in MIT Technology Review in 2006 by famed NASA Goddard Space Studies Institute and still holds valuable predictive information for exact temperature predictions at least up to 2100. As Greta Thunberg says in her reprint at the end of this Program: "Nature doesn't bargain and you cannot compromise with the laws of physics...We must now do the seemingly impossible. And that is up to you and me. Because no one will do it for us."

**Mike Gamble** is scheduled for presenting two slideshows. The first one will be on the latest developments with his gyroscopic inertial propulsion device (GyroBuild), thanks to his past specialty at Boeing with big versions that were launched into space on Friday. The second presentation will be on his hobby of researching Nikola Tesla's Motor on Saturday.

**Dr. Dean Radin**, a chief scientist from the Institute for Noetic Sciences, will be presenting on "The Resurrection of Magic" which includes a study of amazing individuals with extraordinary powers, with reference to his recent books, *The Conscious Universe* (HarperOne) and *SuperNormal* (Deepak Chopra Books) as well as *Real Magic* (Crown Pub., Random House).

**Paul Murad**, a former defense contractor, will be presenting on "Gravitation as a Rotational Field" which may include an update to his chapter in the new Valone book, *The Future of Energy* (Nova Science Pub.) "Gravity/Anti-Gravity, Libration Points, & Relativity: Exposing Light on Dark Matter". Our plenary speaker, Colonel Eric Felt from Kirtland AFB will be presenting on the AFRL Space Solar Beaming Power Demonstration SSPIDR presentation as part of the Air Force Research Laboratory,

Directed Energy & Space Vehicles Directorate.

**Ray Fleming** is on the schedule to talk about his published theory concerning the generation and destruction of electrons and protons as a source of energy.

**Dr. Ed Storms**, a former scientist at Los Alamos National Labs, will be speaking about the history of cold fusion research. He was a speaker at our first COFE1 back in 1999 and an expert in cold fusion back then. This presentation is essential for anyone who wants to understand the history and science behind the cold fusion controversy. In addition to the technological importance of the effect, the discovery of new ways to initiate nuclear reactions without producing significant radiation reveals an entirely new mechanism operating at the nuclear level in solid material. This new mechanism has important implications for an understanding of many other phenomena. His new book is "Explanation of Low Energy Nuclear Reactions, An Examination of the Relationship Between Observation and Explanation".

**Dr. Louis Rancourt** will be describing his research into how light beams can affect gravity but not mass. The experiments are detailed and have been published in Applied Physics Research as well as in Physics Essays. We found his research to be very intriguing, hard to explain, and was referred to us by Dr. Thorsten Ludwig who saw his presentation in the Czech Republic, November, 2019.

**William Alek** will be presenting his research into "Harnessing Electron Spin Energy" for useful work. An Electron is self-powered by Sub-Quantum Electromagnetic Vacuum Energy. Can this Electron Energy be harvested as a useful source of energy? This presentation will give the best scientific reasoning for utilizing electron spin, such as with magnetic motors since magnetism is driven by spinning electrons.

Lastly, **Dr. Tom Valone** will finish up the conference with an historical review of the best documented technologically interesting UFO incidents in recent times. As a study directed Toward a University Textbook on Ufology, this presentation has 12 chapters with an introductory chapter and will be submitted to an academic textbook publisher, since Valone used to be a college teacher. It is filled with lots of short videos and colorful slides.

**Sign up for your FREE spot** in a two-day adventure with our **Twelfth Conference on Future Energy** (COFE12) at [www.futureenergy.org](http://www.futureenergy.org) to register. You will receive an email or two with the link and password for the event in time to tune in with your computer or laptop or smart phone. You may also download [www.zoom.com](http://www.zoom.com) now to be prepared or later on. Registration is limited to 100 attendees with our paid account and is no cost to participants who can also ask questions through the chat window or through the unmuted audio at the end of each presentation.

# ***COFE 12 Speaker Schedule as of July 25, 2020 (Times are EDT)***

[www.futureenergy.org](http://www.futureenergy.org) will have the latest schedule but this is the one we will strive to implement

## **Friday August 14, 2020**

## **Saturday August 15, 2020**

10 AM	Steve Hampton – Asymmetric Impulse Drive – theory and demo	Mike Gamble – Nikola Tesla Automobile Motor Part 4
11	Dr. Thorsten Ludwig – Zero Point Energy	Ray Fleming – Electrons and Protons
12	Tom Valone – Climate Need for Clean Energy, Global History, CO2, and Temperature Forecast	Dr. Ed Storms – Cold Fusion Update
1 PM	Lunch Break	Lunch Break
2	Mike Gamble – GyroBuild CMG Part 4	Louis Rancourt – Light Effects on Gravity
3	Dr. Dean Radin – The Resurrection of Magic	Bill Alek – Harnessing Electron Spin Energy
4	Paul Murad – Gravitation as a Rotational Field	Tom Valone – Ufology Textbook – 12 chapter summaries—amazing history facts and videos
5	Col. Eric Felt – Space Solar Power – 5- 5:45 PM	Tom Valone – Ufology to 5:30 or 5:45 PM

Presentation abstracts below in the order in which they will be appearing in the COFE12 Program Schedule

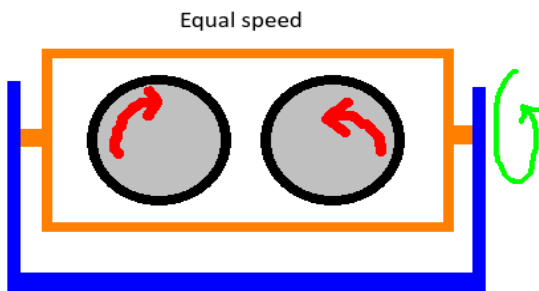
Speaker’s Biographies follow after the Abstracts



## **Abstracts**

(arranged in the order of their appearance)

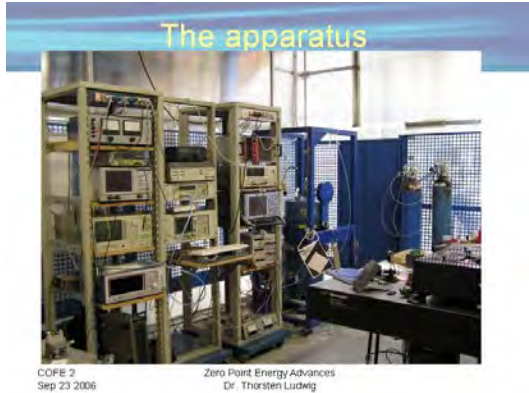
### **Steve Hampton -- Asymmetrical Impulse Drive**



Electric In-Space propulsion uses no fuel. Thrust is generated as impulses where in space, momentum is additive. Rotary motion is converted into bi-linear oscillation of a carriage then its momentum rectified: The carriage is shifted forward during low inertia, so momentum used to oscillate the carriage forward is conserved to be used later in the cycle. Reverse carriage oscillations are deflected. This creates only a

pulsed demand on the electric power supply – thus too fulfilling the law of Conservation of Energy. Newton’s third law of motion is upheld because action and reaction are not simultaneous events, so in this engine, the inertial delay occurs at post carriage shift during part of the rotors’ orbit – when centrifugal force emerges: The centripetal force of the rotors are cyclically nullified by the shift resulting in surges of centrifugal force. (Patent Abstract)

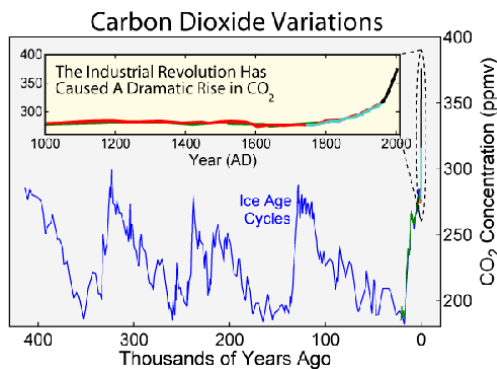
Zero point energy is the sea of energy that we live in. The quantum energy fills everything from empty space to matter. All particles, waves, systems and even space itself are pervaded with this energy. These quantum fluctuations hold matter together, give rise to the magnetic moment of elementary particles and to magnetism in general. The zero point energy could be the power source of the future. Dr. Ludwig



will present several theoretical and experimental approaches to harnessing zero point energy. Since magnets are a part or center of many free energy machines he will also explain how ZPE is the foundation of magnetism. Over the years Dr. Ludwig has published a number of experiments and ideas how to extract energy from the quantum field. He will also present new measurements and further details and the famous Hans Coler current generator that produced 6 kw back in the 1940's. Additionally the working replications of Hans Coler's Magnetic Current Apparatus will be highlighted.

Coler had found a way to build resonance circuits that tap zero point energy, the sea of energy that we live in. The current generator consists of two stacks of large copper plates with flat coils in between. In addition there is an exciter circuit out of soft iron cores with several layers of coils around it. Since the power is supposed to be generated by electrons passing through a premagnetized ferromagnetic material, the link will be made to vacuum fluctuations and zero point energy as a possible energy source. New physics shows that, the quantum energy of space, zero point energy, is the power that leads to and sustains magnets. Another well-established zero point energy effect is the Casimir effect. Casimir predicted that zero point energy can be converted into a force with simple metal configurations. Dr Ludwig is working in projects that aim to use this force for propulsion and for generating electric power.

### Dr. Thomas Valone – Climate Need for Clean Energy: Global History Based on Paleoclimatology, CO2, Temperature, and Sea Level Trends



The earth's thin, fragile atmosphere has become a potent heat trapper with 412 ppm of CO2, which is 122 ppm higher than it has ever been for over 800,000 years. Just like the plastics in the ocean, CO2 in the air stays there, with the rainforests no longer providing a sink. For the first time in history, global population has tripled in less than one lifetime, annual carbon dioxide emissions have quadrupled, and global energy consumption has quintupled, all in the same period, thus multiplying the environmental stress. In 2006, climatologist James Hansen discovered and published

a remarkably linear relationship between CO2, temperature, and sea level rise, based primarily on the Vostok ice core data for the past 400,000 years. Since then, tests comparing with the best climatologists' models have confirmed that Hansen's simple equation can be applied today within an approximate

range of a few hundred ppm of the half-million-year maximum carbon dioxide concentration of 290 ppm for the entire period. The outcome has anticipated quantitative estimates of temperature for 2020 and can be extrapolated toward future decades with remarkable agreement to current models. The expected temperature increase of 5°C to 6°C by 2100 has been called “irreversible” by NOAA as they are driven by the potent atmospheric CO<sub>2</sub> level whose rate, as well as level, continue to increase exponentially. The challenge of this discussion and slide presentation is show the cause, through paleoclimatology, of the present global heating and present the solution: how to do CCS on hundreds of gigatons of CO<sub>2</sub>, even as the world emits an increasing rate of CO<sub>2</sub> (last year = 40 Gt). This Valone presentation has been updated and vetted by IEEE at the **International Symposium on Technology and Society**, Tufts University, Boston MA, November 15, 2019 and published in the **IEEE Proceedings**, slides along with his paper. See [www.tinyurl.com/ValoneClimateSlideshow](http://www.tinyurl.com/ValoneClimateSlideshow) . A longer, more complete 32-page version was also published in the **J. of Env. and Climate Change** in 2019 [www.tinyurl.com/ValoneClimate](http://www.tinyurl.com/ValoneClimate) as open access.

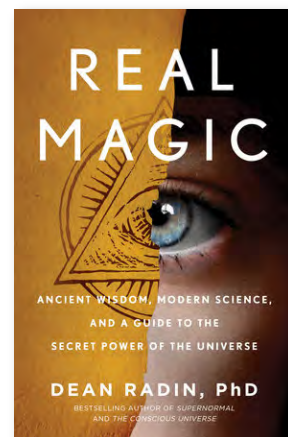
## Mike Gamble -- GyroBuild: Differential CMG Operation, part 4



For this year’s COFE12 conference have concentrated on converting the gyro test article demo model to X-axis operation. This involved relocating the gyros to rotate in the horizontal direction and adding additional support rails to the test article’s frame to make this possible. However, it also added a little more weight to the system. Also, added a small offset (moment arm) to the gyros servo’s axis of rotation which added some more system weight. Both of these modifications together added 1.5lbs to the test article’s total system weight increasing it to 9lbs; with the goal of increasing the gyro’s output force. After testing these two modifications, proceeded to re-calculate the new X-axis moment of inertia for force calculations. This was followed by test data collection, gyro system optimization, full documentation write up and peer review for presentation. **Ed. Note:** Mike is standing in front of his first CMG tabletop demo unit that produced 0.4 lbs of thrust, which equaled the theoretically predicted amount of unidirectional force as proven in Mike’s slideshow at COFE10.

## Dr. Dean Radin - - The Resurrection of Magic

According to noted scientist and bestselling author of *The Conscious Universe*, Dean Radin, magic is a natural aspect of reality, and each of us can tap into this power with diligent practice. Over the last few decades, science has begun to tackle a perennially perplexing question -- the nature and capacities of consciousness. Until recently, the commonly held assumption in science was that consciousness emerged from brain activity. As a purely mechanistic outcome of a "machine made of meat" in a random universe, consciousness was regarded as an illusion with no inherent meaning, efficacy, or purpose. But as research has advanced on long-term meditation, on the profoundly transformative potential of psychedelic experiences, on spontaneous and acquired savants, musical and mathematical genius, "terminal lucidity," near-death phenomena, as well as psychic and mystical states,



old assumptions are breaking down. As a result, a growing number of prominent scientists are questioning whether materialism -- the prevailing scientific worldview -- is adequate to understand all aspects of reality. Instead, they are reconsidering ideas like panpsychism and the philosophy of idealism. In parallel, we see rising scholarly interest in the esoteric traditions, where we find that some aspects of ancient wisdom previously dismissed as superstitious nonsense are instead probably correct. This includes the reality and practice of real magic. This talk will briefly survey this trend, review the scientific evidence for real magic, and then discuss the consequences of a resurrection of magic in the age of science. Radin has spent the last forty years conducting controlled experiments that demonstrate that thoughts are things, that we can sense others' emotions and intentions from a distance, that intuition is more powerful than we thought, and that we can tap into the power of intention.

## Paul Murad -- Gravitation as a Rotational Field

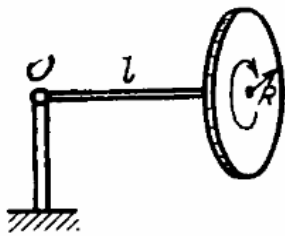
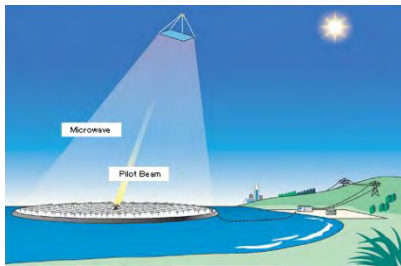


Fig. 1.73.

Anomalies and enigmas are pathways to discovery. Gravitational models for Newton and Winterberg are not capable of producing gravity waves. Jefimenko's model, originally modified to create Maxwell's equations symmetry, created co-gravity. He introduces vorticity aimed at crafting a rotational field to create hyperbolic partial differential equations and subsequently provide gravitational waves. Another model variants with stronger rationales produce a wave equation without creating a co-gravity field as a prerequisite for gravitational waves. Moreover, there are anomalies based upon a constant gravity observed in Pioneer 10 and 11 spacecraft at considerable distances in contrast to the Newtonian approximations. This anomalous behavior about gravity and spin are evaluated for charge conservation model for spinning the electric/magnetic source density in a neutron star increases gravitational attraction and a gyrating neutron star gravitational model augments the source density, that collapses to a constant gravity value at long distances. This model may also be valid for rotating stars and a black hole model represents a neutron-like star enclosed by a Faraday cage which also spins to intensify gravity. These models provide insights where the spin of electrical charge is a mechanism to increase gravitational attraction. **Ed. Note:** Paul may include an update to his chapter in the new Valone book, *The Future of Energy* (Nova Science Pub.) "Gravity/Anti-Gravity, Libration Points, & Relativity: Exposing Light on Dark Matter".

## Col. Eric Felt -- AFRL Space Solar Beaming Power



Directly from Kirtland AFB, this presentation will be on the AFRL Space Solar Beaming Power Demonstration SSPIDR presentation as part of the Air Force Research Laboratory, Directed Energy & Space Vehicles Directorate. It is an exciting clean energy future project that produces ten times the energy as the same solar panels on earth, so the project has gained international recognition by countries like Japan, which has its own Japan Space Solar Power System under development as well.

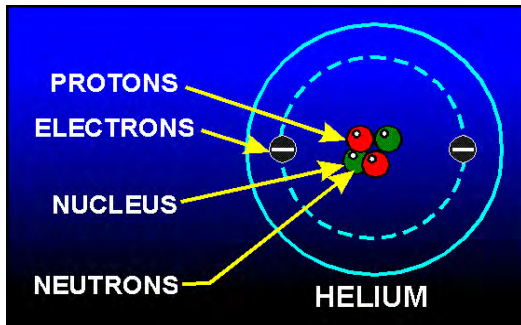


## Mike Gamble -- The Real Tesla Electric Car Motor – Part 4



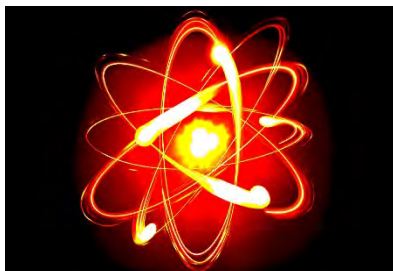
For this year's COFE12 conference have changed the Tesla resonant demo model from parallel resonance to series resonance. The three previous Part-1,2,3 designs all operated with parallel resonance. The present modification uses a unique series resonant transformer design which resonates both the primary and secondary coils together with the motor. By resonating the entire output circuit a smaller value capacitor can also be used. All this helps reduce the total Tesla inverter power losses. After debugging these changes, proceeded to collect test data, inverter system optimization, full documentation write up and peer review for presentation.

## Ray Fleming -- Electrons and Protons Production



Since electrons and protons exist we know that they either can be produced or have existed for infinity. The universe, to the best of our knowledge, is electrically neutral indicating that the number of electrons and protons is equal. So, if electrons and protons can be produced, their production rate must be equal to many decimal places. Given the differences between electrons and protons we would not expect this to be the case unless they are produced together in an interaction. The existence of the quantum field of mainstream quantum field theory shows us that energy is available to account for electron and proton production. And, under the particle pair model for the quantum field, a version of the particles already exists allowing for particle production to be a simple conversion process that conserves energy. It is incumbent on physicists to take the question of electron and proton production seriously as humans should be able to understand and replicate electron and proton production. **Ed. Note:** The Standard Model in physics gives protons and electrons each an estimated lifetime that exceeds the reasonable lifespan of the universe, which does offer an intriguing dilemma as to an infinitely stable particle in a finite universe.

## Dr. Edmund Storms – Cold Fusion Update



This presentation is essential for anyone who wants to understand the history and science behind the cold fusion controversy. In addition to the technological importance of the effect, the discovery of new ways to initiate nuclear reactions without producing significant radiation reveals an entirely new mechanism operating at the nuclear level in solid material. This new mechanism has important implications for an understanding of many other phenomena. His new book is "Explanation of Low Energy Nuclear Reactions, An Examination of the Relationship between Observation and Explanation". His recent work has focused on understanding LENR and making the effect reproducible.

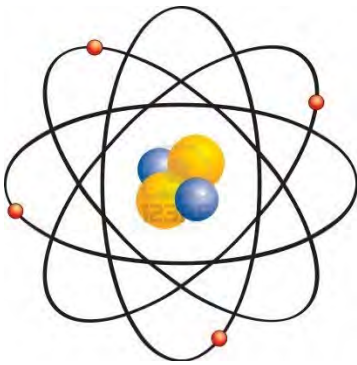
## Louis Rancourt, PhD - - Light Beam Effects on Gravity



If light can block gravity, then the attraction between the 2 masses would decrease and the mobile mass would move away a little. But the opposite always happened: the mobile mass was getting closer as if the attraction was increased. Since that made no sense, the experiment was redone many times, checking if other factors were causing that movement. **Ed. Note:** The experiments are detailed and have been published in *Applied Physics Research* as well as in *Physics Essays*. We found his research to be very intriguing, hard to explain, and was referred to us by Dr. Thorsten Ludwig.

## Bill Alek - - Harnessing Electron Spin Energy

What is the difference between a Gyroscope and an Electron? ANSWER: A Gyroscope is powered



by an External Power Supply; however, an Electron is self-powered by Sub-Quantum Electromagnetic Vacuum Energy. Can this Electron Energy be harvested as a useful source of energy? When the speed of rotation of the Electron was calculated back in the 1920's, it was determined to be many times the speed of light and therefore, rejected by mainstream science. This led to the Electron being described as a quantum mechanical particle. In addition, given the classic properties of the Electron, it was also determined the Electron had NO volume. In other words, the mass and electromagnetic properties reside outside the classic radius. This means mass can be described as a field effect and shown

experimentally to be true. This lecture with demonstration will explore newly discovered perspectives from a classical point of view of the Electron, and the Dirac Sea of Positive and Negative Energy, and how it can be harnessed as a new source of energy. **Ed. Note:** Ferromagnetic fields from magnets are also determined solely by electron spin, except for diamagnetism, so the Alek theory may apply to permanent magnet motors as well.

## Thomas F. Valone, PhD -- Toward a University Textbook on Introductory Ufology and Exotechnology



The UFO community, if one exists, is a fractured collection of various groups, organizations, and individuals who have made a name for themselves. As a result, the history and highlights of the best and most documented UFO encounters is needed to help students study the subject in a scientific and unbiased manner. As a former college physics and electrical technology instructor, the creation of a textbook with thirteen chapters and

questions at the end of each section is a prerequisite to entice university professors to consider offering a new course for credit. The only question to be resolved is which UFO encounters, exotechnology, and astrosociological reports are the most important and memorable, surviving the test of time. This

slideshow presents a proposed collection of 13-chapter textbook topics with their justification, evidence, and videos, as a work in progress for the most compelling factual events that most people are unaware of.

## **Biographies** (alphabetically arranged by last name)

**William Alek, BSEE** 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 SmartPAKTM / SZTTM 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).

### **Colonel Eric Felt**



is a Ph.D. E.E. and the Commander of the Phillips Research Site and Director of the Air Force Research Laboratory Space Vehicles Directorate at Kirtland Air Force Base, New Mexico. He leads a team of 1,080 military, civilian and on-site contractors who comprise the nation's center of excellence for military space science and technology, research and development, as well as advanced technologies integration and demonstration. His organization focuses on enduring Air Force space missions: communications; position navigation and timing, missile warning, space situational awareness, and defensive counter space. Colonel Felt received his commission in 1991 from Duke University Air Force Reserve Officer Training Corps. He entered active

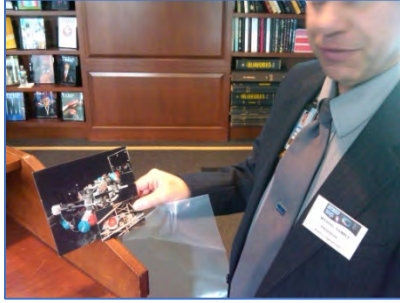
duty in 1996 after completing a master's in science and doctorate degrees in electrical engineering. He is a graduate of the U.S. Air Force Test Pilot School and has served as a developmental engineer and program manager in lab, test, program office, and staff assignments. Prior to his current position, Colonel Felt served as the Senior Materiel Leader, Joint Mission Division, Intercontinental Ballistic Missile Systems Directorate, Hill Air Force Base, Utah.

### **Ray Fleming**



is an independent physics researcher and author investigating the full implications of standard model quantum field theory. He is retired with previous work history as a manager in fields of health physics and x-ray analytical equipment. He has also conducted experimental high-voltage vacuum arc discharge research. Ray authored *The Zero-Point Universe* and *The 100 Greatest Lies in Physics*.

**Michael Gamble, BSEE** 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 bachelor's 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, he has 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 (CMG) Program of Boeing's that was a trade secret until permission was obtained to present its history at COFE. **Ed. Note:** Mike is shown here holding his then proprietary photo of Boeing's room size inertial propulsion CMG device that has been sent into space to keep satellites up in orbit.

**Steven M. Hampton** was an avionics technician in the US Navy then worked as a switchman for a small telephone company. He then worked as a TV repairman; locksmith; machine maintenance technician specializing in electrical, pneumatic and hydraulic systems. He worked as a robotics engineering technician. He has experience in electronic circuit design and PCB layout, and was an apprentice machinist. Steven was also a royalty-published author with the now defunct Paladin Press and has published numerous technical works in the fields of locksmithing, security and robotics. He has hand-built 15 different inertial propulsion devices.



**Dr. Thorsten Ludwig** currently works as a researcher at the Berlin Institute for innovative Energy and Propulsion Technologies. Dr. Ludwig is deeply interested in new energy and propulsion technologies and has studied, researched, experimented and worked in this field for many years. He is working on energy and consciousness projects. He conducts experiments in quantum field effect, magnetism, resonance, mind and matter interaction, cavitation, ion traps and a number of free energy generators. He is studying the Casimir effect in his laboratory in Berlin. The experiment uses state of the art nanositioning, 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.

**Paul Murad** has a BSME from Brooklyn Polytechnic Institute and an MSAE and astrophysics degree from New York University. He worked on the Apollo and space shuttle programs at NASA in the 1960s and was employed for 18 years as a contractor working on tactical and strategic missile systems. He returned to the government for 25 years to work on foreign technology topics, examining predicting the future, and also supported in four different wars working with the Pentagon. Additionally, he has the Chairman for technical conferences to include: “Magnetohydrodynamics for the National Aerospace Plane” (2001), “The First International High Frequency Wave Conference” (2003), was in charge of five annual sessions of the Space Technology & Applications International Forum (STAIF) Conference “F” (2004-2008) that covered advanced space propulsion, advanced energy, and gravitic concepts. During the past 40 years, he has also presented different technical disciplines with approximately 70 technical papers as well as written 10 novels. At Morningstar, he has been involved in new technologies from hybrid nuclear reactors, gravitic experiments such as the Morningstar Energy Box, levitation, satellite control/propulsion, gravity waves/gravity shocks, astrophysics, computational fluid dynamics, aerodynamics, and weather amelioration.



**Dr. Dean Radin** (pronounced Ray' din), PhD, is Chief Scientist at the Institute of Noetic Sciences and Distinguished Professor at the California Institute of Integral Studies. He earned an MS in electrical engineering and a PhD in psychology from the University of Illinois, Urbana-Champaign. Before joining the research staff at IONS in 2001, Radin held appointments at AT&T Bell Labs, Princeton University, University of Edinburgh, and SRI International. He has given over 500 talks and interviews worldwide, and he is author or coauthor of hundreds of scientific and popular articles, four dozen book chapters, two technical books, and four popular books translated into 15 foreign languages: *The Conscious Universe* (1997), *Entangled Minds* (2006), *Supernormal* (2013), and *Real Magic* (2018).



**Dr. Louis Rancourt** held the position of tenured professor in the Faculté d'éducation at the Université d'Ottawa. Taught in Ontario from primary through high school, as well as higher education at Cambrian College and Collège Boréal. Dr. Rancourt is now retired from teaching. His research has extended to Gravity, Light, Static Electricity, and also Houses Using Solar Energy. Published work: “Effect of Light on Gravitational Attraction,” in *Physics Essays*, 24, no 4 (2011). “Further Experiments Demonstrating the Effect of Light on Gravitation,” in *Applied Physics Research*, 7, no 4 (2015).



**Dr. Edmund Storms** obtained a Ph.D. in radiochemistry from Washington University (St.



Louis) and is retired from the Los Alamos National Laboratory after thirty-four years of service. His work there involved basic research in the field of high temperature chemistry as applied to materials used in nuclear power and propulsion reactors, including studies of the "cold fusion" effect. He presently lives in Santa Fe where he is investigating the "cold fusion" effect in his own laboratory. These studies have resulted in thirty presentations to various conferences including the ACS, APS, and ICCF. In addition, over 100 papers have been published including four complete scientific reviews of the field, one published in 1991, another in 1996 and 1998, again in 2000 ([www.LENR.org](http://www.LENR.org)) with the latest in 2010 (Naturwissenschaften). He published a book on the subject in 2007 (World Scientific) and another in 2013 (Infinite Energy Press). In May 1993, he was invited to testify before a congressional committee about the "cold fusion" effect. In 1998, Wired magazine honored him as one of the 25 people in the US who is making a significant contribution to new ideas. He was awarded the Preparata Medal by the International Society of Condensed Matter Nuclear Science and honored as Distinguished Scientist by University of Missouri.

**THOMAS VALONE, PHD, PE** is a physicist and licensed professional engineer with over 30 years professional experience, is a former US patent examiner, research engineer, instrumentation designer,



and currently an author, lecturer, and consultant on future energy developments. He was Research Director for Scott Aviation-ATO, Inc., former teacher at Erie Community College, founder of Integrity Research Institute and the inventor of such electrotherapy devices as the EM Pulser, EM PulsePad, OsteoPad, and the high voltage Premier Junior. He is the author of *Zero Point Energy: The Fuel of the Future*, *Practical Conversion of Zero Point Energy*, *The Homopolar Handbook*, *Electrogravitics Systems*, *Electrogravitics II*, *Bioelectromagnetic Healing*, *The Future of Energy*, *Harnessing the Wheelwork of Nature*, *Nikola Tesla's Electricity Unplugged*, and over 100 reports and articles. He is a member of the Institute of Electrical and Electronic

Engineers, National Space Society, AAAS, and the Union of Concerned Scientists. He has appeared on CNN, A&E, History, and Science channels, Gaia TV, and several times in the popular "Ancient Aliens" series on the History channel. His works have been published in German, Korean, French, Russian, and English.



VIEWPOINT

## No 'green deal' will be ambitious enough to save the planet

By Greta Thunberg

In the aftermath of the coronavirus crisis, there are many who will claim that we need to use this as an opportunity. They'll say that when we restart the economy, we must adopt a so-called green recovery plan. And of course it's incredibly important that we invest our assets in sustainable projects, renewable energy, technical solutions and research. But we must not for one second believe that it will be even close to what is actually required, or that the so-called targets set out today would be ambitious enough.

If all countries were to actually go through with the emission reductions they have set as goals, we would still be heading for a catastrophic global temperature rise of at least 3°C above preindustrial levels. The world's planned fossil-fuel production alone by the year 2030 accounts for 120% more than what would be consistent with a target of 1.5°C temperature rise. The math just doesn't add up.

If we are to avoid a climate catastrophe, we have to tear up contracts and abandon existing deals and agreements on a scale we can't even begin to imagine. No "green recovery plan" or "deal" in the world would alone be able to achieve such emission cuts. Even debating it risks doing more harm than good, as it sends a signal that the changes needed are possible within today's societies. As if we could somehow solve a crisis without treating it like a crisis. A lot may have happened in the past two years, but the changes and level of

awareness required are still nowhere in sight.

Things may look dark and hopeless, but I'm telling you there is hope. And that hope comes from the people, from democracy, from you. From the people who are starting to realize the absurdity of the situation. Everywhere there are signs of change, of awakening. Just take the #MeToo movement, Black Lives Matter or the School Strike movement, for instance. It's all interconnected. We have passed a social tipping point. We can no longer look away from what our society ignores, whether it is equality, justice or sustainability.

From a sustainability point of view, all political and economic systems have failed. But humanity has not yet failed. The climate and ecological emergency is not primarily a political crisis. It is an existential one, based completely on science. The science is there. The numbers exist. We cannot get away from them. Nature doesn't bargain, and you cannot compromise with the laws of physics. Either we accept and understand the reality as it is, or we don't. Either we go on as a civilization, or we don't. Doing our best is no longer good enough. We must now do the seemingly impossible. And that is up to you and me. Because no one will do it for us.

*Thunberg, TIME's 2019 Person of the Year, is a climate activist and co-founder of Fridays for Future. This viewpoint is adapted from an essay originally broadcast on Swedish radio*