

THE 30TH ANNUAL SSE MEETING

Featuring Invited Speakers on:

IMPLICATIONS OF NON-LOCALITY

LARRY DOSSEY

PAMELA RAE HEATH

THE SCIENCE OF THE SUBJECTIVE

ROBERT JAHN & BRENDA DUNNE

DEAN RADIN

CONSCIOUSNESS AND LIVING SYSTEMS

ROLLIN MCCRATY

LARISSA CHERAN

PRACTICAL APPLICATIONS OF ANOMALIES RESEARCH

FRANCESCA MCCARTNEY

JOHN MCMICHAEL

THE SOCIOLOGY OF SCIENTIFIC EVOLUTION

WALTER CRUTTENDEN

JONATHON SCHOOLER

Abstracts for contributed talks due March 1st. Visit website for details.

SSE AT THE FOREFRONT OF SCIENCE

JUNE 9-11 2011 - BOULDER, COLORADO - MILLENIUM HARVEST HOUSE

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Society for Scientific Exploration

30th Annual Meeting – Boulder, CO
June 9 – 11, 2011
Millennium Harvest House

Program and Abstracts

SSE AT THE FOREFRONT OF SCIENCE

Implications of Non-Locality
Practical Applications of Anomalies Research
Consciousness and Living Systems
The Science of the Subjective
The Sociology of Scientific Evolution

Bill Bengston, Program Chair
Dominique Surel, Arrangements Chair

Society for Scientific Exploration – 30th Annual Meeting

Program Committee: Bill Bengston, Chair, Dick Blasband, Courtney Brown, Adam Curry, Brenda Dunne, Robert Jahn, Dominique Surel

Local Arrangements: Dominique Surel

WEDNESDAY EVENING, June 8 - Millennium Hotel Gardens

6:00 pm - Opening Reception and Registration. Poster set-up

THURSDAY MORNING, June 9 - Ballroom

Theme I: IMPLICATIONS OF NON-LOCALITY

9:00 Welcome and Introductions

9:15 Pamela Rae Heath, *Diverse Perspectives: What Distant Healing, Remote Viewing, and the Afterlife Suggest about Non-Locality*

9:55 Gary Schwartz, *Photonic Measurement of Apparent Presence of Spirit using a Computer Automated System*

10:15 Walter Semkiw, *Advances in Reincarnation Research: A Tribute to Ian Stevenson*

10:35 BREAK

11:00 Larry Dossey, *Precognition As Preventive Medicine*

11:40 Julie Beischel, Michael Biuso, Mark Boccuzzi, Adam Rock, *Anomalous Information Reception by Research Mediums under Quintuple-Blind Conditions: Can the Mind Exist without the Body?*

12:00 Chuck Lear, *The Bell Inequality and Non-Local Causality* (sponsored by Dean Radin)

12:20 LUNCH BREAK - Young Investigators' Meeting

THURSDAY AFTERNOON - Ballroom

Theme II: THE SCIENCE OF THE SUBJECTIVE

2:00 Robert Jahn & Brenda Dunne, *Towards a Science of the Subjective*

2:40 Mark Boccuzzi, *Three Methods for Examining Experimenter Effects in Investigations of Psychokinesis* (sponsored by Julie Beischel)

3:00 Maria Syldona, *Science of Subjectivity – Key to understanding the nature of Reality*

3:20 J. Kenneth Arnette, *Subjectivity is Constitutive: Consciousness is to Energy as Energy is to Matter*

3:40 BREAK

4:00 Dean Radin, *Consciousness and the double-slit interference pattern: Six experiments*

4:40 York Dobyns, *Using Parapsychology to Test Fundamental Physics*

5:00 Dan Ward, *Planetary Geometry*

5:20 BUSINESS MEETING

Society for Scientific Exploration – 30th Annual Meeting

FRIDAY MORNING, June 10th - Ballroom

Theme III: CONSCIOUSNESS AND LIVING SYSTEMS

9:00 Announcements

9:10 Larissa Cheran, *Beyond Quantum: Consciousness in Action*

9:50 Richard Shoup, *How Consciousness is Like Las Vegas - and Where the Real Focus Should Be*

10:10 Igor Dolgov, *Self Organized Design: The Mechanism Behind Mindless, Yet Intelligent Natural Selection*

10:30 BREAK

10:50 Bill Bengston, *Questioning the Place of Subjective States and Conscious Awareness in Anomalous Healing*

11:20 Samuel Sandweiss, *A Case Presentation about the Nature of Consciousness*

11:40 Carl Medwedeff, *Chemical Biology in Radionics and Healing* (sponsored by Erik Schultes)

12:00 BREAK

FIELD TRIP – RED ROCKS PARK

12:30 - Bus departs at 12:30 sharp

Pre-ordered lunch to be picked-up in lobby before boarding the bus

4:00 Bus leaves Red Rocks to return to Hotel (arrive around 5pm)

5pm – 7:30 Free time for dinner

FRIDAY EVENING - Ballroom

CONSCIOUSNESS, Part II

7:30 Rollin McCraty, *Coherence: Bridging Personal, Social and Global Systems Health*

8:10 Roger Nelson, *Similarities of Global and Individual Consciousness*

8:30 Garret Moddel, Zixu, Zhu, Adam Curry, *Machine Consciousness: Experimental Evidence*

8:50 Glen Rein, *Bio-Information and Non-Local Distant Interactions between Biological Systems*

Society for Scientific Exploration – 30th Annual Meeting

SATURDAY MORNING, JUNE 11th - Ballroom

Theme IV: PRACTICAL APPLICATIONS OF ANOMALIES RESEARCH

9:00 Announcements

9:10 John McMichael, *Resonant Molecular Signaling: From Theory to Practice*

9:50 Joie Jones, Yury Kronn, *Experiments on the Effects of Subtle Energy on the Electro-Magnetic Field: Is Subtle Energy the 5th Force of the Universe?*

10:10 Marsha Adams, *Do Atmospheric Aberrations Precede Seismic Activity?*

10:30 Courtney Brown, *The Creation of the Asteroid Belt: Using Remote-Viewing Data to Investigate the Exploding Planet Hypothesis*

10:50 BREAK

11:10 Francesca McCartney, *Energy Medicine University: Education at the Frontier of Science*

11:50 Dominique Surel, *Transformational Effects of Remote Viewing*

12:10 Alexis Champin, *Remote Viewing Software: The Key to Profitability*

12:30 LUNCH BREAK

SATURDAY AFTERNOON – Century Room 1st Floor

Theme IV: PRACTICAL APPLICATIONS (CONTINUED)

2:00 Dale Graff, *Precognition and Synchronicity: Implications for Safety and Survival*

2:20 John MacLean, *Premonitions and other Psi in Reliability Engineering*

2:40 John Alexander, *Signal to Noise: A Fundamental Problem for Phenomenology*

Theme V: THE SOCIOLOGY OF SCIENTIFIC EVOLUTION

3:00 Jonathan Schooler, *The Decline Effect: Exploring Why Effects Sizes often Decline Following Repeated Replications*

3:40 Henry Bauer, *From Dawn to Decadence: The Evolution of Modern Science*

4:00 BREAK

4:20 Ron Westrum, *Closed Minds and Battered Kids: How Science Resists Knowledge of Anomalies*

4:40 Claude Swanson, *Dark Matter, Torsion and ESP Reception*

5:00 Alexander Trofimov, *Kozyrev's "Remote Viewing" of the Universe*

5:20 Walter Cruttenden, *The Cosmic Influence: A Framework for Epochal Changes in Consciousness*

CLOSING BANQUET

6:45 - Cocktails

7:30 – Dinner

Pamela Rae Heath, *Diverse Perspectives: What Distant Healing, Remote Viewing, and the Afterlife Suggest About Nonlocality*

In the past, nonlocality was only of interest to religion and philosophy. However, recent advances in physics have brought the topic into mainstream science. It behooves us to understand what the possible implications of this could be. One way to get a sense of these, is to move beyond dialectics to empiricism by considering other processes that appear to involved a significant degree of nonlocality: distant healing, remote viewing, and (if channeled messages are to be believed) the afterlife. The latter is particularly interesting, as it is often spoken of as being limitless, without the normal boundaries of space or time. Controlled remote viewing is likewise able to access information across space and time, while distant healing can be time-displaced and occur at a considerable distance. We will briefly look at what insights these can give us, including what resulted when "the implications of nonlocality" was used as a remote viewing target.

Bio: Pamela Rae Heath has an MD from the University of Texas Medical Branch at Galveston and practiced anesthesiology for nearly 30 years, serving as Chief of Anesthesia in Humana Hospital-Abilene and at Chinle Hospital on the Navaho Reservation. She began having spontaneous psychic experiences in the early 1990s, which led to her returning to graduate school for a doctorate in psychology with a dual specialization in parapsychology and hypnosis. Her dissertation was on mind-matter interaction.

Pamela Heath is a member of the Parapsychological Association, the Society for Psychical Research, and the Society for Scientific Exploration. She has published on experiential research, mind-matter interaction, place memory, and the afterlife. Her books include: *The PK Zone, Suicide: What Really Happens in the Afterlife?; Handbook to the Afterlife;* and *Mind-Matter Interaction: Historical Reports, Research & Firsthand Accounts* (available from McFarland in 2011).

Gary E. Schwartz, *Photonic Measurement of Apparent Presence of Spirit using a Computer Automated System*

Research investigating the potential of detecting the purported presence of spirit (POS) has been hampered by the necessity of employing a human being to collect the data. To infer the presence of alleged spirit, it is essential to remove the simultaneous presence of an experimenter (POE), thereby eliminating his or her physical energy as well as accompanying conscious intentions and expectations. **Objective:** The purpose of these two proof-of-concept experiments was to explore the feasibility of completely automating data collection in the absence of an experimenter to determine if evidence consistent with POS was still obtained. **Design:** A computer automated system was developed making it possible to collect all data in the absence of an experimenter (thereby achieving complete experimenter blinding). In the evenings, the computer would (1) start the experimental run at random times, (2) conduct 30 minute baseline as well as POS trials involving two different alleged spirits, and (3) record background light in a completely dark chamber with a highly sensitive low light Princeton Instruments CCD camera system. **Setting:** The CCD camera and light-tight recording chamber were housed in a light-tight room; the computer, large screen monitor and speakers were housed in a separate control room. **Participants:** The participants were two purported spirits involved in previous POS research using a silicon photomultiplier system (Schwartz, 2010). **Intervention:** The primary intervention was the computer selecting and presenting visual and auditory information inviting Spirit 1 or Spirit 2 to enter the chamber in the absence of experimenter presence and awareness. **Main Outcome Measurements:** The CCD camera provided 512 by 512 pixel images of 30 minute exposures (reflecting a combination of possible background light plus instrument dark noise). The images were imported into image processing software and two dimensional FFT analyses were performed. Average brightness levels of the FFTs were calculated and subjected to repeated measures analyses of variance. **Results:** Compared to pre and post baseline images, the POS trials were associated with reliable increases in the average brightness of the FFT images, suggesting increased structure of the background light as revealed in the FFT's. **Conclusion:** These findings indicate that POE per se is not sufficient to explain the observed POS effects. Future experiments can address the remaining potential psi interpretations (decision augmentation theory [DAT] and retro PK) as well as the source of the observed information (i.e. visible spectrum photons, cosmic rays, and / or the CCD chip itself).

Bio: Gary E. Schwartz is Professor of Psychology, Medicine, Neurology, Psychiatry, and Surgery, and Director of the Laboratory for Advances in Consciousness and Health, at the University of Arizona. He received his PhD in psychology from Harvard University in 1971 and served its faculty until 1976. He was Professor of Psychology and Psychiatry at Yale University and Director of the Yale Psychophysiology Center from 1976 to 1988. His most recent books are *The Energy Healing Experiments* and *The Sacred Promise*.

Walter Semkiw, *Advances in Reincarnation Research and a Tribute to Ian Stevenson*

For a period of 40 years, the late Ian Stevenson, MD traveled around the world studying children who had spontaneous past life memories that could be historically and objectively validated. In the last 10 years, reincarnation research has proceeded at an accelerated rate, largely due to the Internet, which has allowed historical research to be conducted more easily, as well as facilitating communication regarding new cases around the world.

Walter will summarize the most important new cases, including the James Huston Jr. | James Leininger case, which has been featured on ABC Primetime, the History Channel and the Oprah Winfrey Network. This case supports several observations made by Ian Stevenson regarding reincarnation cases, including similarity in facial features and innate knowledge conveyed from one lifetime to another, as well as apparent perception from in-between incarnations.

Other important new cases involve police Capt. Robert Snow, Fire Chief Jeff Keene, policewoman Barbro Karlen, neurosurgeon Norm Shealy, MD and those of Penney Peirce, whose string of three researched past lifetimes suggest that a soul can animate more than one physical body at a time, a phenomenon which I have termed “split incarnation.” Dr. Stevenson noted this same phenomenon, which he called reincarnation cases with “anomalous dates,” as one lifetime would overlap another.

Other principles of reincarnation drawn from cases include xenoglossy and the preservation of past life personalities intact within the soul, renewal of relationships through reincarnation, planning of lifetimes and spirit being involvement in reincarnation cases. Ian Stevenson even reported a case that involved suicide in the prior incarnation, which will be presented.

Walter will also discuss the great societal transformation that objective evidence of reincarnation can bring, as reincarnation research reveals that a person can change religion, race, nationality and ethnic affiliation from one lifetime to another. A case involving the reincarnation of Holocaust victim Anne Frank dramatically demonstrates these observations.

Bio: Walter’s books on reincarnation have been published internationally, including his titles *Born Again*, *Return of the Revolutionaries* and *Origin of the Soul and the Purpose of Reincarnation*. He is the President of IISIS (Institute for the Integration of Science, Intuition and Spirit), a reincarnation research nonprofit organization, and editor of www.IISIS.net. He has appeared on CNN and Newsweek.com. Walter is a practicing physician in San Francisco. He trained in psychiatry, is board certified in Occupational Medicine (scoring in the 99th percentile) and served as the Medical Director for Unocal 76, a Fortune 500 oil company. Walter went to medical school and received a Masters of Public Health at the University of Illinois, in Chicago. E-Mail: walter@IISIS.net

Larry Dossey, *Precognition As Preventive Medicine*

Abstract: Precognition is an ancient element in human history and has been affirmed in numerous experiments in recent decades. Precognitive experiences or premonitions often warn individuals of approaching dangers and threats to health and survival. This theme is so consistent that precognition can be viewed as a form of preventive medicine — information that, if heeded, contributes to the health and survival of the organism. This presentation will develop this theme through real-life examples and clinical cases.

Bio: Larry Dossey, MD is a former physician of internal medicine and former Chief of Staff of Medical City Dallas Hospital. He is the author of eleven books dealing with consciousness, spirituality, and healing, including the *New York Times* bestseller *Healing Words: The Power of Prayer and the Practice of Medicine*, and most recently *The Power of Premonitions: How Knowing the Future a\Can Shape Our Lives*. His books have been translated into twenty languages. Dr. Dossey is the former co-chairman of the Panel on Mind/Body Interventions, National Center for Complementary and Alternative Medicine, National Institutes of Health. He is the executive editor of the peer-reviewed journal *EXPLORE: The Journal of Science and Healing*. Dr. Dossey lectures around the world. He lives in Santa Fe with his wife Barbara, a nurse-consultant and the author of several award-winning books.

Julie Beischel; Michael Biuso; Mark Boccuzzi; Adam Rock
*Anomalous Information Reception by Research Mediums Under Quintuple-Blind Conditions:
Can the Mind Exist Without the Body?*

Continued investigations regarding the survival of consciousness beyond physical death are critical for our understanding of consciousness, the potential of the mind, and the nature of life in general. One of the main survival research methods involves studying mediums-individuals who report regular communication with the deceased. The current ongoing study addresses the research question at the heart of mediumship research: Can mediums report accurate and specific information about the deceased loved ones (termed discarnates) of living people (termed sitters) using anomalous information reception; that is, without any prior knowledge about the discarnates or sitters, in the absence of any feedback, and without using deceptive means? In order to control for all traditional, local, and sensory explanations for the accuracy of the mediums' statements (e.g., cold-reading, cueing, generality, rater bias, fraud), Windbridge Certified Research Mediums (WCRMs) answer specific questions about discarnates during readings performed under quintuple-blind conditions which involve the blinding of the mediums, the sitter-raters, and three experimenters interacting with the participants at various stages of the study. In addition, the WCRMs are not provided with feedback about the scores sitter-raters give the readings in order to address precognition as an explanation for positive results. The item-by-item and whole reading scoring data collected to date as well as the implications of the findings regarding the relationship between the mind and the body will be discussed.

Bio: Julie Beischel, PhD, is Director of Research at the Windbridge Institute for Applied Research in Human Potential (www.windbridge.org). She received her doctorate in Pharmacology and Toxicology with a minor in Microbiology and Immunology in 2003 from the University of Arizona. She is a full member of the Society for Scientific Exploration and the Parapsychological Association and serves on the scientific advisory boards of the Rhine Research Center and Forever Family Foundation. Dr. Beischel's academic training in several interdisciplinary scientific fields allows her to design and apply traditional research methods to investigating more unconventional phenomena.

Chuck Lear, *The Bell Inequality and Nonlocal Causality*

Abstract: The Freedman-Clauser experiment in Berkeley and the Aspect experiment in Orsay were the defining physical experiments demonstrating nonlocal causality in quantum mechanics. They each counted coincidence measurements on entangled polarized photons from a common source. Our presentation begins with a brief discussion of the quantum mechanics of polarized photons. We show an example of the changes in the count rates when the polarizers are changed under assumptions of local causality. This causes a contradiction with quantum mechanical predictions. The example uses a logical flow and the algebra of inequalities. It constitutes a conditional proof of the Bell inequality. Next we discuss the experimental background and the events leading up to it. We discuss several hypotheses in explanation, of which our favored is the time reversal of cause and effect. A few of the current physical research avenues of entanglement will be shown.

Bio: Chuck (Charles) Lear is currently an adjunct instructor of undergraduate physics at Weber State University in Ogden, Utah. He has held that position for the last seven years. He retired from TRW at Hill Air Force Base in Ogden in 2000 after a 40-year career as a systems engineer. Most of his work was done for the Air Force ballistic missile programs, and involved propulsion, trajectory analysis, nuclear weapons effects and systems survivability. He is the author of six technical papers in various fields. His devotion to paranormal physics for the past 20 or so years is evidenced by the fact that all his work in the field has been done without financial support. It includes a compendium of the basic physics principles supporting paranormality, work on a consciousness-based description of quantized spacetime, and coordination of efforts to bring Chinese work in the paranormal fields to the attention of western scientists. Mr. Lear holds masters degrees in both physics and engineering from the University of California, and has resided in Ogden with his wife Beverly for the last thirty years.

Robert Jahn and Brenda Dunne, *Towards a Science of the Subjective*

Although consciousness-correlated physical phenomena are widely and credibly documented, their appearance and behavior display substantial departures from conventional scientific criteria. Under even the most rigorous protocols, they are only irregularly replicable, and they appear to be insensitive to most basic physical coordinates, including distance and time. Rather, their strongest correlations are with various subjective parameters, such as intention, emotional resonance, uncertainty, attitude, and meaning, and information processing at an unconscious level appears to be involved. If science, by its most basic definition, is to pursue understanding and utilization of these extraordinary processes, it will need to expand its current paradigm to acknowledge and codify a proactive role for the mind in the establishment of physical events, and to accommodate the spectrum of empirically indicated subjective correlates. The challenges of quantitative measurement and theoretical conceptualization within such a ‘‘Science of the Subjective’’ are formidable, but its potential intellectual and cultural benefits could be immense, not least of all in improving the reach, the utility, the attitude, and the image of science itself.

Bios: Robert G. Jahn, Ph.D. is Professor Emeritus of Aerospace Sciences and Dean Emeritus of the School of Engineering and Applied Science of Princeton University. He was chairman of the Board of Trustees of Associated Universities, Inc., is a Fellow of the American Physical Society and of the American Institute of Aeronautics and Astronautics, and has been chairman of the AIAA Electric Propulsion Technical Committee, associate editor of the AIAA Journal, and a member of the NASA Space Science and Technology Advisory Committee. In 1979 he established the Princeton Engineering Anomalies Research (PEAR) laboratory to enable better understanding of the role of consciousness in the establishment of physical reality. The PEAR work has been described in numerous articles in refereed journals and in the books *Margins of Reality and Consciousness* and *the Source of Reality*, both co-authored with Brenda Dunne. He is currently Chairman of the Board of the International Consciousness Research Laboratories (ICRL) and Vice President of the Society for Scientific Exploration.

Brenda J. Dunne studied psychology and the humanities at Mundelein College in Chicago and holds a M.S. in developmental psychology from the University of Chicago. From 1979 to 2007 she was Laboratory Manager of the PEAR laboratory at Princeton University, and currently serves as President and Treasurer of International Consciousness Research Laboratories (ICRL) and editor-in-chief of The ICRL Press. She is also Education Officer and a member of the Executive Committee of the Society for Scientific Exploration. With Robert Jahn, she co-authored "*Margins of Reality: The Role of Consciousness in the Physical World*" and "*Consciousness and the Source of Reality: The PEAR Odyssey*", was co-editor of "*Filters and Reflections: Perspectives on Reality*", and has authored or co-authored numerous articles in refereed journals on the work of the PEAR laboratory.

Website: <http://www.princeton.edu/~pear>, <http://www.icrl.org>

Mark Bocuzzi, *Three methods for examining experimenter effects in investigations of psychokinesis*

When designing experimental methodologies and analyzing study results, it is important to keep in mind the potential impact of the experimenter's consciousness. These effects may result from conscious intention or subconscious desire (the latter of which may oppose the former). This presentation aims to explore the methods and outcomes from three different experiments varying in experimenter belief, desire, and intention. In the first experiment, the output from a random event generator (REG) is collected during forty 30-second trials. Each trial has an overall result of either 'high' (more ones than zeros) or 'low' (more zeros than ones). Software was developed to generate a hidden file containing a list of success criteria (i.e., high or low) for each of the 40 trials. With no outside influence, 50% of the listed criteria should match the outcomes for the respective trials. What happens, though, when the experimenter---who strongly believes in the effect of his consciousness on the outcome---sets the generalized intention that "the experiment is successful"? The second experiment uses no electronic equipment and examines macro-psychokinesis in the form of changes in air pressure by employing an air-tight chamber (roughly 1 cubic ft.), the opening of which is tightly fitted with a latex membrane. A small optical mirror is affixed to the membrane so that changes in air pressure within the chamber affect the orientation of the mirror. A tri-pod mounted laser is aimed at the mirror so that the beam reflects to a target roughly 10 feet away and any movement of the membrane due to changes in air pressure can be determined by the shift in the beam visible on the target. In this case, the experimenter does not believe that his consciousness can alter air pressure, but he has confidence that deceased people or other non-physical consciousnesses might be able to cause changes. Will there be a difference between the distance the beam moves during control sessions and sessions in which the experimenter invites the pressure to change? In the third experiment, a target area is designated in a darkened room and bisected with a laser light source. Deceased individuals are invited to attempt to "push" more ambient dust into the visible beam during active periods of data collection. The numbers and position of highlighted airborne particulates are tracked and quantified: digital images of the target area are captured using extended exposures from a remotely triggered, tripod-mounted digital camera and the resulting images from active and control sessions are analyzed using particle analysis software. Will more dust enter the beam during active periods? The data collected to date, conclusions drawn, potential implications, limitations, and value of these research protocols will be discussed.

Bio: Mark Bocuzzi, researcher and Director of Operations at the Windbridge Institute for Applied Research in Human Potential, is currently an associate member of the Parapsychological Association. Mark's research interests include intuition, animal psi, applied psychokinesis, photographic anomalies, distant mental interactions on living systems (DMILS), and instrumental transcommunication (ITC). He is the recipient of a 2011-2012 research grant from the Helene Reeder Memorial Fund for Research into Life after Death for a project titled "Invited Ostensible Discarnate Interactions with Electronic Equipment" and he has served as a researcher on two Windbridge Institute projects funded by the Bial Foundation. Mark's research has been presented at the Toward a Science of Consciousness and the International Society for the Study of Subtle Energies and Energy Medicine (ISSSEEM) conferences and has been accepted for publication in the *Journal of Scientific Exploration*.

Maria Syldona, *Science of Subjectivity – Key to understanding the nature of Reality*

Emphasis on the subjective in scientific research, especially in research of the unusual or the unexplained is a trend predictive of the future of science as an ultimately more powerful, valuable force in humanity's evolutionary progress. It portends progression toward a science that is beyond a hybrid of the objective and the subjective – a science of the Real. Real in the sense that an *ultimate* blending, or superposition of the two, could reveal a profoundly more accurate and comprehensive depiction, and result in a deeper understanding – of the true nature of Reality.

Progress in this direction is evident in even some of the most traditional scientific institutions. In 2009, the British Royal Academy (sciences), in collaboration with the British Academy (humanities) stated: “Extraordinary talent remains one of *the big unexplained puzzles*, which will *only be solved by a true collaboration between sciences and humanities*”. A much earlier version of incorporating the subjective in objective scientific research of extraordinary or unusual human abilities led to the field of mind/body medicine. Jon Kabat-Zinn, a preeminent pioneer in mind/body medicine, went even a step further in refining the subjective aspect by hiring only researchers who had an established meditation practice. Researchers' prior subjective experiences, of the same type as their subjects were having, combined with the type of personal development achieved as a result of these experiences, was an invaluable asset – as they studied their subjects' progress *with both objective and subjective research methodologies*.

Eastern science traditions encourage such subjective internal developmental work as a means to promoting both a scientist's own evolutionary development, and their concomitant ability to understand research conundrums from a higher perspective. This is of particular importance for studying unusual or unexplained phenomena. Along these same lines, Einstein noted that a problem cannot be solved at the level at which it was created. Eminent scientists from east and west would appear to agree that these phenomena are best studied not simply from an intellectual or mental level of consciousness, but rather from a level of spontaneous apprehension, or intuition – the state from which 'Einstein “A-HA” moments' originate.

This talk incorporates both eastern and western science perspectives, in addressing objective/subjective research design in studying anomalies. Drawing from Eastern science traditions, including Kashmir Shaivism and Patanjali Yoga Sutras, the main focus is the nature of the researcher's subjective personal evolutionary development.

Dr. Syldona's interdisciplinary background encompasses science, engineering, psychology, education and Eastern psychospiritual traditions, at institutions including: Carnegie-Mellon, Stanford and Brown Universities and SUNY Stonybrook. She is Founder/Director of the Institute for Human Psychospiritual Development, in Colorado.

Contact information: (email) healingbalance@scienceandspirit.org

J. Kenneth Arnette, *Subjectivity is Constitutive: Consciousness is to Energy as Energy is to Matter*

There are many facets to the philosophical and scientific study of consciousness, but philosopher David Chalmers has identified a core issue, which he called the *hard problem* of consciousness. To paraphrase, the hard problem is: how can matter—regardless of the degree of complexity of its organization—generate something so radically different from itself, namely, thought, ideas, subjective experience, and consciousness? Indeed, it truly is a puzzle that the most tangible, least ephemeral thing we know—matter—could generate the most ephemeral, least tangible thing we know—consciousness itself. It would seem that in a fully material world, biological mechanisms would proceed on their own, without any accompanying awareness or subjectivity. The hard problem, as stated, reflects the assumption that the brain *does* generate the mind and asks how that can be accomplished. But just as easily, one could make the opposite assumption, that matter *does not* generate consciousness, and the hard problem dissolves (although other problems ensue). Chalmers' own response to the question he posed has been called *naturalistic dualism*: consciousness has a natural ontological status equal to *matter-energy* and *spacetime*, the two other basic components of the universe, and cannot be reduced to the workings of these two. For Chalmers, consciousness is irreducible, but not supernatural. Thus, the brain *does not* generate consciousness or subjectivity, which are nonetheless natural phenomena. While appealing, this view ultimately is not satisfying. It fails to say what consciousness is, beyond irreducible and natural, neither offering nor explaining a mind-brain relationship. Chalmers' response in fact fails to address the relationships among the three basic entities cited above. I propose instead that we turn the entire problem *backwards*: to entertain the notion that *consciousness* is the most fundamental thing, and that everything else is literally constructed from it. Consider as a starting point Einstein's famous equation relating energy to matter. Besides the quantitative information given by this equation, there are some implicit ontological statements. One is that matter is merely a condensed form of energy; matter is *constructed* from energy. (Contemporary string theory suggests two forms resulting from this construction.) Thus, at some point shortly after the Big Bang, energy condensed into matter; the less tangible became the more tangible. Working from this model, dissolution of the hard problem can be accomplished by taking this energy-matter relationship one step back: energy is a condensed form of consciousness, analogous to the energy-matter relationship—*consciousness:energy::energy:matter*. This concept has advantages: (1) it is logical in that this is the order of tangibility of the three substances; (2) it is easier to envision a constitutive consciousness-energy relationship than the assumed relationship in which matter produces consciousness; and (3) it incorporates this part of relativity in a consistent and logical way. Consciousness thus is the primordial substance; self-awareness and subjectivity are two of its essential aspects, irreducibility a third. When consciousness condenses into energy, it loses this awareness, partially or, more probably, completely. When energy condenses into matter, any remaining awareness is lost. Therefore self-awareness is not to be found in the realms of matter-energy and spacetime, yet all of this is ultimately constructed from and composed of consciousness. Finally, I will suggest new problems revealed by this perspective, since it is clearly incomplete, and some brief comments on how these ideas relate to some well-known modern philosophical figures and their positions on the mind-body problem.

J. Kenneth Arnette, Ph.D., L.P.C. Transpersonal Institute for the Scientific Study of the Paranormal, P.O. Box 771091, Memphis, TN 38177-1091; jkarnette@hotmail.com

Dean Radin, *Consciousness and the double-slit interference pattern: Six experiments*

Abstract: The hypothesis that consciousness collapses the quantum wavefunction was tested using a double-slit optical system. The principal measurement was the ratio of double-slit to single-slit spectral power associated with the interference pattern. The consciousness collapse hypothesis predicted that this ratio would decrease when participants focused their attention towards the optical system, as compared to when they withdrew their attention.

Six experiments were conducted to test various aspects of the hypothesis. Each study consisted of 40 counterbalanced attention-towards and attention-away periods, with each period lasting from 15 to 30 seconds. Results combined over a total of 250 test sessions indicated that the ratio decreased in accordance with the hypothesis ($z = -4.0$, $p < 0.00004$). Two hundred calibration sessions run without observers present tested hardware, software, and analytical procedures for potential artifacts; those data showed no difference in the spectral ratio ($z = 0.12$, $p < 0.60$). Attention training, electrocortical measurements, and psychological variables associated with the modulation of attention and perception correlated in predictable ways with changes in the interference pattern. The results suggest that the human mind interacts with a double-slit interference pattern in a way that is consistent with an interpretation of the quantum measurement problem, that consciousness collapses the wavefunction.

Bio: Dean Radin, PhD is Senior Scientist at the [Institute of Noetic Sciences](#) (IONS) and Adjunct Faculty in the Department of Psychology at [Sonoma State University](#). His original career track as a concert violinist shifted into science after earning a BSEE degree in electrical engineering, *magna cum laude* and with honors in physics, from the University of Massachusetts, Amherst, and then an MS in electrical engineering and a PhD in psychology from the University of Illinois, Urbana-Champaign. For a decade he worked on advanced telecommunications R&D at AT&T Bell Laboratories and GTE Laboratories. For over two decades he has been engaged in consciousness research. Before joining the research staff at IONS in 2001, he held appointments at Princeton University, University of Edinburgh, University of Nevada, and several Silicon Valley think-tanks, including Interval Research Corporation and SRI International, where he worked on a classified program investigating psychic phenomena for the US government.

He is author or coauthor of over 200 technical and popular articles, a dozen book chapters, and several books including the bestselling *The Conscious Universe* (HarperOne, 1997) and *Entangled Minds* (Simon & Schuster, 2006). His technical articles have appeared in journals ranging from *Foundations of Physics* to *Psychological Bulletin*, he was featured in a *New York Times Magazine* [article](#), and he has appeared on television shows ranging from the BBC's *Horizon* and PBS's *Closer to Truth* to *Oprah* and *Larry King Live*. He has presented over a hundred invited lectures at universities including Cambridge, Harvard, Stanford, Princeton, Virginia Tech, and University of California at Davis, at industrial facilities including Google headquarters, and for US government organizations including DARPA and the US Navy. In 2010, he spent a month lecturing in India as the National Visiting Professor of the Indian Council of Philosophical Research, a program in the Indian government's Ministry of Human Resource Development.

York Dobyns, *Using Parapsychology to Test Fundamental Physics*

Although physicists are by no means the field most hostile to parapsychology, many physicists have chosen to attack parapsychological results on the basis of claims of their impossibility or at least implausibility. Despite this hostility, the reality is that the increasing sophistication and power of parapsychological experiments has recently reached the point where these experiments can be used to test important aspects of physical theory. Two important areas of unresolved theoretical speculation in physics are addressed by parapsychological results published in the last three years.

The quantum measurement problem has been one of the fundamental mysteries of physics since the development of quantum mechanics. The many disparate "interpretations" of quantum mechanics are spawned by our essential ignorance regarding such basic questions as what constitutes a measurement and what actually happens during a measurement. In 2008 Dean Radin of the Institute of Noetic Sciences published experimental results showing that a particular state of focused attention could function as a measuring instrument, to the extent that it could be detected by its effects on quantum interference. The existence of a "measuring instrument" that consists solely of a human mind has the potential to resolve many issues regarding the proper role of consciousness in interpretations of quantum mechanics. Accomplishing this resolution, however, would require many more experiments of the Radin type to establish the limits and properties of the phenomenon.

Retrocausation has been of concern in physics since the appearance of advanced waves in the equations of classical electrodynamics, and began to be taken very seriously with the discovering of metrics in general relativity that allow the existence of closed timelike curves. In 1989 Echeverria, Klinkhammer, and Thorne (EKT) established that spacetimes with closed timelike curves do not generate time paradoxes. Their physical model leads to predictions for the behavior of any system containing retrocausal effects, including those where only information rather than a physical artifact moves from future to past. In 2011 Daryl Bem of Cornell published a series of experiments in presentiment which appear to be the first parapsychological experiments both sufficiently robust and appropriately designed to offer a direct test of the existence of the EKT mechanism. If such a test produced positive results, a secondary consequence more interesting to consciousness researchers than to physicists would be a demonstration that micro-PK is an inevitable consequence of the existence of precognition or presentiment, through a physical mechanism completely unrelated to the DAT hypothesis published in JSE in the 1990s.

Bio: York Dobyns holds a Ph.D. in physics from Princeton University. He spent 20 years at Princeton Engineering Anomalies Research studying the relation of human consciousness to the physical world.

Dan Ward, *Planetary Geometry*

Geometrical relationships among planets and other members of the local solar system go far beyond curious anomalies... they imply non-local interactions that dictate the orbital and physical characteristics of these bodies. Combined with these relationships are consciousness-related aspects associated with the planets, moons, and so forth, and their nomenclature as dictated by the International Astronomical Union. A review of the astounding “coincidences” among planetary orbital and other properties provides clear evidence of geometrical influences upon physical bodies. These influences have the characteristics of non-local interactions.

Unfortunately, traditional research into these anomalies have been almost non-existent, due apparently to the implied assumption that only radical solutions will suffice. The idea that planets, moons and other bodies might somehow be required by physical forces to follow certain specific orbits due in part to purely geometrical considerations... has about as much appeal as did quantum limitations on electron and nuclear energy states in atoms at the onset of quantum physics a hundred years ago.

Underlying the proliferation of new information from astronomical research from the discovery of numerous dwarf planets to planetary satellites – is the official naming and nomenclature of these new discoveries in planetary science by the IAU. Such ostensibly innocent naming of celestial bodies, may in fact imply an underlying consciousness in what has become in some cases an acrimonious process. The naming of the dwarf planet, Eris, for example, was supposedly taken from a Greek myth which associates the name Eris with a highly disruptive entity. Inexplicably, the orbital cycle of Eris does in fact correspond to very dramatic and profound, *disruptive* events in the human history of the last several thousand years. Similar anomalies proliferate.

Bio: Dan S. Ward, Ph.D. (nuclear physics) is Chief Scientist of Halexandria Foundation, former Associate Professor of Physics and Civil Engineering at Colorado State University, and Chief Executive Officer of Quantum Genesis, LLC.

Larissa Cheran, *Beyond Quantum: Consciousness in Action*

Science is unable to explain how mental processes such as creativity, intuition, insight, thinking, emotions and the feeling of being alive arise from electrochemical impulses firing along neural axons. Quantum physics cannot accommodate feelings in the symbols of its differential equations. Neuroscientists can see the activity in distinct areas of the brain, but how is this constructed and bound together in unitary experiences and feelings still remains elusive. How can the nonmaterial mind influence the material body? Is consciousness the substrate of both, conceiving, forming and becoming biology, so interaction happens naturally? It was said that the non-physical cannot be measured by employing physical instruments. However, experiments using high-frequency vibrational fields can detect the strong effects of human intention on populations of neuron cells grown to form a living neural network on the surface of a high-resolution sensing device. It is a perfectly measurable, quantifiable interaction.

Bio: Larissa-Emilia Cheran, PhD is a Senior Research Scientist at the University of Toronto, Canada. She has been working in the field of biomedical applications of microsystem technologies since 1990, with her early work focusing on the study of the bioelectronic interface in biosensors and bioelectrodes. She has since coordinated innovative biosensors research within an interdisciplinary group of medical researchers, physicians, neuroscientists, biologists, biophysicists, chemists, physicists, engineers and mathematicians, promoting an integral approach for the advanced scientific research in biology and medicine, and conducting experiments on living neuron networks cultured on microsensors surfaces in cooperation with neurologists and neuroscience researchers. Working with the Biosensors Group at the University of Toronto, she invented the Scanning Kelvin Nanoprobe, an extremely high resolution instrument measuring quantum properties of matter, which has permitted exploration of the influence of neurotrophic factors on the neural networks produced by biological neurons and has opened a revolutionary new research direction. Current interests include the study of biosensing techniques in monitoring stem cell differentiation for neurogenesis, neuroregeneration and brain repair applications, as well as the biophotonic properties of neuron cells in living retinal tissue. She is the author or coauthor of more than 70 papers, 2 patents and three books, and is particularly interested in the study of quantum biology, the science of consciousness, human psychology and behavior, art, music and culture, and in the integration of science and spirituality.

Richard Shoup, *How Consciousness is Like Las Vegas -- and Where the Real Focus Should Be*

Many scientists, this author included, are deeply frustrated with the thinking and discourse that currently surrounds the concept of "consciousness". In this talk, we discuss various meanings and definitions attributed -- generally unspecified or unspoken -- to consciousness, and how this lack of clarity leads to confusion with other concepts such as awareness, creativity, and experience, as well as with quantum measurement, psychic phenomena, and the existence of a personal identity. We discuss why it is a common misinterpretation of quantum mechanics to attribute the "creation" of physical reality to consciousness. Finally, we present several phenomena that genuinely ARE of interest in this regard, which do present serious evidence for the Self, and which deserve much more attention from science.

Bio: Richard Shoup obtained his B.S.E.E. and Ph.D. Computer Science from Carnegie Mellon University. In 1970, he became one of the earliest employees at the Xerox Palo Alto Research Center, where he built one of the first digital painting and animation systems for video and graphic arts. For his pioneering computer graphics work, Shoup later received both an Emmy and an Academy Award. Shoup left Xerox in 1979 to co-found Aurora Systems, an early manufacturer of digital videographics and animation systems. In 1993, Shoup joined Paul Allen's Interval Research Corporation in Palo Alto, and in 2000, he co-founded the Boundary Institute, a small non-profit research group studying foundations of physics, mathematics, and computer science.

Igor Dolgov, *Self-Organized Design: The Mechanism Behind Mindless, Yet Intelligent Natural-Selection*

Igor Dolgov Department of Psychology, New Mexico State University – id@nmsu.edu

Abstract: The proponents of the intelligent design thesis argue, amongst other things, that the incredible variety of amazingly designed creatures on planet earth must imply the existence of an intelligent designer. This is a modern-day version of the watchmaker analogy, the classic and ineffective teleological argument for the existence of God. The typical objection to this analogy is that complex artifacts /creatures can be produced by a mindless natural process, as exemplified by the infinite monkey theorem. In the present work, I present an argument for a mindless natural process, self-organization, to be the origin of an evolutionary process that appears intelligent. Additionally, I present a technique for computing the spectral coefficient of a time-series of mutations which would determine the degree to which the advantageous and deleterious mutations are self-organized. Rather than being a true objection to the watchmaker argument as applied to Earth's biodiversity, this viewpoint illustrates that a mindless natural process could also be intelligent, and allows for natural selection and intelligent design to be mutually inclusive.

William F. Bengston, *Questioning the Place of Subjective States and Conscious Awareness in Anomalous Healing*

Data from experiments which tested 1) the effect of healing with intent on cancerous laboratory mice, and 2) fMRI brain correlates to healing, are selectively summarized to address the question of whether there is a connection between conscious states of mind and healing efficacy. The alternative and complementary medical community has enthusiastically embraced spirituality and selected altered states of consciousness as positive corollaries to healing. A transcendent experience of wonder is often taken as a sign that a larger force can work through both the healer and healee to produce medically verifiable improvements that would not otherwise occur. Similarly, it is widely assumed that both the healer and healee's state of mind can have direct and powerful implications for healing efficacy.

In these experiments, however, volunteer healers with no previous experience or belief in healing with intent were successful in producing full lifespan cures in mouse cancer models that are normally fatal. Further, fMRI brain data indicate a non-conscious response in the brain of the healer to the need for healing. Successful healing has been produced by volunteers who have experienced a wide range of subjective sense of connection (and lack of connection) to their experimental mice, and fMRI data indicate a strong and reliable difference in healer brain output in which the healer and experimenter were blinded as to the health needs of experimental animal subjects.

While it may initially seem reasonable to conclude that the subjective sense of connection may not be necessary to affect healing, methodological complications resulting from an apparent resonant bonding between experimental and control groups render interpretation problematical. These resonant bonds are interpreted as fluid, with the potential of being either strengthened or weakened by both consciousness and shared experience.

Bio: Bill Bengston is a professor of sociology at St. Joseph's College in New York, and President of the SSE. His research has produced the first successful full lifespan cures of transplanted mammary cancer and methylcholanthrene induced sarcomas in experimental mice by "energy healing" techniques that he helped to develop. He has also investigated assorted correlates to healing such as geomagnetic micropulsations and EEG harmonics and entrainment.

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Samuel H. Sandweiss, *A Case Presentation About The Nature Of Consciousness* (sponsored by Bernard Haisch)

Is consciousness an outgrowth of the physical brain -- or is it something more fundamental, perhaps the primary substance of reality? This centrally important and relevant question in science today is addressed by the following case.

In June – July, 1983, in San Diego, CA, I observed and videotaped remarkable phenomena in the course of treating a 32-year-old female Caucasian patient who suffered from a severe pain (headaches)/pseudo-seizures disorder. Having dropped out of high school and without having had any prior knowledge of Sanskrit, my patient spontaneously began to speak Sanskrit fluently, write it down phonetically, and translate it into English. The spontaneous Sanskrit productions expressed insights from mystical Indian thought about the nature of reality and consciousness. Two Sanskrit scholars verified that most of the words were clearly Sanskrit, some were distortions that closely resembled Sanskrit words, and a very few were English. They felt that it would be impossible for the patient to have learned this language simply to impress a psychiatrist – let alone be able to express such spiritually sophisticated ideas.

What made this case even more remarkable was that *vibuthi* (a spiritually significant ash) and *amrita* (a spiritually significant nectar) formed on the face of the patient and on pictures in the home of caregivers when the patient was present. These phenomena were witnessed and described on camera by reliable observers, and videotaped by me.

This case provides compelling information about the possibility that consciousness extends beyond our physical brain and personal life experience, as my patient communicated information she had no plausible way of knowing otherwise. Although these phenomena cannot be explained by Western scientific concepts, the Sanskrit notes clearly declare the primacy of consciousness consistent with Vedantic teachings. Also, *vibuthi* and *amrita* are produced or materialize in a way not understood by contemporary science, suggesting that consciousness can create matter.

I would like to present this case by showing video clips of these unusual phenomena, while commenting about their possible significance to our understanding of the relationship of matter and consciousness.

Samuel H. Sandweiss, M.D., is a practicing psychiatrist for over 40 years and is currently living in San Diego, California USA. He has been a Medical Director of a psychiatric clinic and has taught at the University of California San Diego School of Medicine in the position of Assistant Clinical Professor in the Department of Psychiatry. He has been a consultant to the Dialysis and Kidney Transplantation Program at the Univ. of California San Diego School of Medicine, and has consulted with geriatric programs and with Hospice. Dr. Sandweiss has been interested in the relationship of spirituality and psychiatry and how spiritual practices affect the mind and expand consciousness and love.

Bio: author of three books about Sathya Sai Baba, *Sai Baba: The Holyman And The Psychiatrist, Spirit And The Mind*, and the recently published *With Love, Man is God* -- Dr. Sandweiss has also served on the Sathya Sai Baba Council of the United States since it's beginning in 1975. He and his wife Sharon have hosted a Sai Baba Center in their home for over 37 years and they oversee Birth Day Publishing Company, which publishes books about Sai Baba by Western authors.

Carl G. Medwedeff, *Chemical Biology in Radionics and Healing*

The emerging field of Chemical Biology may provide new explanations for non mainstream life science phenomena. In particular, a number of seemingly disparate and unconventional biomedical observations, including those in; radionics; “healing” (cancer reversal etc.); electro-magnetic olfaction in insects and developmental processes, may be associated with common biochemical pathways. Though yet to be studied in detail, these phenomena share plausible mechanisms involving small molecule interactions, chiral and non chiral catalysis, and quantum electron tunneling. These observations and biochemical mechanisms will be presented, focusing on their conceptual overlap, with the ultimate goal of formulating testable hypotheses.

Additionally an examination of the process of assembling “Chains of Thought” from the conceptual intersections presented, will be examined with two reasons in mind. First of all, in order to present a more complete picture of the phenomena discussed and their relationship to each other and second to demonstrate how an even larger set of phenomena might be linked to the those presented, in the hope of encouraging the examination of the phenomena presented in an increasingly interdisciplinary manner.

Bio: Carl G. Medwedeff is an independent researcher with an interest in non mainstream medicine and its history. He lives in south eastern Michigan and has a B.A. in French from Eastern Michigan University.

Rollin McCraty, *Coherence: Bridging Personal, Social and Global Systems Health*

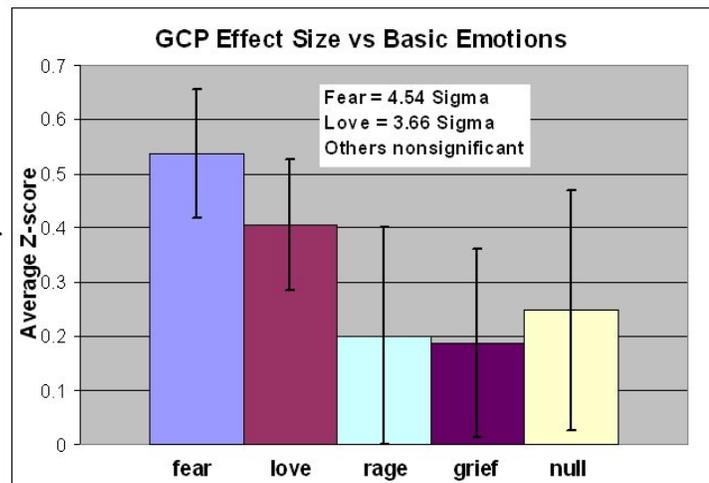
This presentation will focus on interconnectivity between people, people and animals, and with the earth itself. Topics covered include: heart coherence and how it facilitates intuition, data showing that the frequencies and resonances in the earth's magnetic field overlap with both heart and brain rhythms and impact human health and behaviors. An overview of the Global Coherence Initiative and how new magnetic sensors are being utilized to study the earth's energetic systems will be discussed. Learn more about how important it is that people take responsibility for their own energy and elect to use such creative energy influxes to create deeper connections and more caring interactions with each other and Mother Earth.

Bio: Rollin McCraty, Ph.D. of Boulder Creek, California, has been with the Institute of HeartMath since its creation in 1991. He is IHM's executive vice president and director of research. A psychophysiologicalist, Dr. McCraty's research interests include the physiology of emotion, with a focus on the mechanisms by which emotions influence cognitive processes, behavior, and health. A fellow of the American Institute of Stress, McCraty is a member of the International Neurocardiology Network, American Autonomic Society, Pavlovian Society and Association for Applied Psychophysiology and Biofeedback. He and his team regularly participate in studies with scientific, medical and educational institutions worldwide, including Stanford University, Arizona State University, Wake Forest University, and Clemson University. His research has appeared in many journals, including the *American Journal of Cardiology*, *Journal of the American College of Cardiology*, *Stress Medicine* and *Biological Psychology*. www.heartmath.org.

Roger Nelson, *Similarities of Global and Individual Consciousness*

When we categorize test events on scales ranging from estimated numbers of people involved to the nature of the emotions evoked, we expect to see differences in effect size if the hypothesis proposed by the Global Consciousness Project (GCP) is valid. A tentative but sensible prediction is that, as with our individual reactions to what happens to us, there will be distinct responses to well-defined types of events – some producing large effects on average, and others little or none. By asking what matters, some insight can be gained into the fundamental nature of the GCP effects. To the degree identifiable qualitative characteristics are associated with reliable correlations, we should be able to select future events to maximize effect size, leading to more powerful statistics and a better foundation for quantitative modeling.

We report on three structural categories; on four probes to assess the effect of emotions; on one distinction relating to the source or direction of attention; and on a categorization of events by type. We find that the number of people engaged by an event is a strong predictor of effect. On the other hand, being surprised by an event as opposed to knowing it is coming matters little. A purported “experimenter effect” is addressed by asking who chooses the events, but the definition of terms and interpretation of results are complicated.



Emotional content definitely matters, with the rated level or intensity of emotion being a powerful predictor. In contrast, while we might wish to see positive, uplifting events making a stronger impression, their effects look quantitatively very much like those of negative events. Because the database is large, with more than 350 formal events accumulated over 12 years, we can make sound effect size estimates in many categories, despite an average effect size (about 1/3 sigma) which is too small for individual events to be reliably interpreted. We can even look at particular emotions of special interest, for example, fear or compassion. While our category analysis isn't a direct source of material needed for quantitative modeling, it yields subjective insights that provide a qualitative understanding of what “global consciousness” might be like.

Bio: Roger Nelson is the founder and director of the Global Consciousness Project (GCP), a long-running international collaboration of 100 researchers studying interactions of human consciousness and the environment. His professional training is in experimental psychology, perception, memory, and psychophysiology, and includes a background in physics and engineering. Nelson was Research Coordinator for the Princeton Engineering Anomalies Research (PEAR) laboratory at Princeton University from 1980 to 2002. He founded the Global Consciousness Project in 1997 to further expand our scientific understanding of mind in the physical world. His recent work integrates consciousness research and parapsychology, and looks to quantum physics with a focus on information fields and entanglement to help explain anomalous effects of human consciousness.

Garret Moddel, Zixu Zhu, Adam M. Curry, *Machine Consciousness: Experimental Evidence*

Over the years psi research has been linked inextricably with consciousness, which is considered to be a fundamental characteristic of living systems. In all facets of psi interactions through space and time – remote sensing, presentiment, telepathy, and psychokinesis – either the agent or the receiver, or both, are alive and conscious.

The link between psi and consciousness is so firm that when psi effects have been found in lower life forms, that finding has been used as evidence that these life forms are conscious. We presume that it is because dogs are conscious that they can be aware of when their owners decide to come home. Finches exhibit precognition of an image of a crawling snake. There is even some evidence that earthworms have sufficient consciousness to anticipate vibrations.

Inanimate systems, on the other hand, have shown psi effects only when interacting with animate systems, as in mind-matter interactions. Electronic random event generators are subject to influence or access by the consciousness of individuals or groups.

Must one of the parties in a psi interaction be living? If not, is that evidence for machine consciousness? We have developed a system in which two Psyleron electronic random number generators are linked to produce a psi interaction. The results provide evidence in deciding whether inanimate systems exhibit a fundamental characteristic of consciousness.

Bios: Garret Moddel is a professor of Electrical, Computer, and Energy Engineering at the University of Colorado. Along with quantum engineering of new energy conversion technologies, his research group investigates psi phenomena. Recently he served as president of the SSE, and prior to that, president & CEO of Phiar Corporation, a high-tech start-up company. Garret earned a BSEE degree from Stanford and MS and PhD degrees in Applied Physics from Harvard.

Zixu Zhu is currently a PhD student in the Quantum Engineering Laboratory at the University of Colorado at Boulder, developing new geometric diodes for rectenna solar cells. He received his bachelors degree in Electrical Engineering from Brigham Young University in 2008.

Adam Curry is a technology entrepreneur interested in the practical applications of anomalies. His primary focus is Psyleron, a company developing mind-matter interaction products based on the discoveries of the Princeton Engineering Anomalies Research lab. Adam is also the SSE webmaster, and lives in the Bay area.

Glen Rein, *Bio-Information and Non-Local Distant Interactions Between Biological Systems*

Anomalous non-local interactions between biological systems cannot be explained by any existing scientific traditional paradigm. New experimental data clearly indicate that bio-information can be transferred (via coherent light) between two biological systems.

Experimental evidence is now available demonstrating the macroscopic quantum properties of biological systems including coherent excitations, quantum coherence, quantum tunneling and single-photon phenomenon. Non-local interactions between humans has been demonstrated clinically using intercessory prayer and healing at a distance. At the cellular level, new data indicates that light can carry bio-information between cellular systems. Garieaev demonstrated that a laser, passed through a salamander embryo, could carry genetic bio-information and deliver it to a frog embryo. DNA in the frog embryo could decode this information and use it to mature into a salamander. Around the same time, the author did a similar experiment, except used a chemical drug as the source of information. In these experiments, a laser was passed over powdered MAO inhibitor and projected onto nerve cells in tissue culture. Although the unmodulated laser had no effect on MAO enzyme activity when measured in the treated cells, a modulated laser did in fact alter the enzyme activity. However, the net effect was not to inhibit the enzyme, but to increase its activity. Thus the information carried by the laser did not duplicate the drug, but produced the opposite, homeopathic effect on the enzyme. More recently Sargsyan extended both of these studies using a Bioscope device which utilizes light reflected at a glass surface with a black paper backing. When a biological system is placed 15 mm away from the far side of the reflecting surface, bio-information is transferred and carried by the light. Using a photodiode to measuring the fluctuations in the intensity of the modulated light, Sargsyan obtained frequency information about the original biological system. The results suggest the presence of a quantum holographic energy/information system, which underlies/permeates all matter.

These anomalous results can be readily explained if we consider distant communication between two biological systems as a coherent interaction between two quantum systems. Accordingly, several theoretical models have been proposed based on the quantum properties of biological systems. These involve quantum entanglement, quantum superposition and the spontaneous collapse of the wave function. It is proposed here, that quantum fields are emitted and detected by each quantum system which carry and transfer quantum information between biological systems.

Bio: Glen Rein has a PhD in biochemistry, was an Assistant Professor at Mt. Sinai Med School & did product development in a Fortune 500 Company for 14 years. Currently doing contract and original biomedical/biophysics research under Quantum Biology Res Lab. Quantum Biology Lab; Ridgway, CO 81432

John McMichael, *Resonant Molecular Signaling: From Theory to Practice*

Good health is dependent on the appropriate transfer of information within and between cells. The informational and molecular disharmonies associated with disease can be reversed using appropriate therapeutic signals that stimulate the return to the normal state without adverse effects. One such signal molecule, SLO, has demonstrated clinical utility in a broad spectrum of indications that would at first glance appear to be unrelated. The underlying common thread that links these disorders is representative of the targets to which resonant molecular signals are directed.

Bio: John McMichael received his PhD in immunology and virology from Oregon State, and did post-doctoral work at the Wistar Institute. He was head of the infectious disease section of one of the country's largest private veterinary research and diagnostic labs. A former professor, he is currently president of Beech Tree Labs, Inc., a private research and development lab focused on discovery and early development of novel therapeutic agents for the human and veterinary health care markets. John is married, has two grown children, and lives on a working upstate New York farm.

Joie P. Jones and Yury Kronn, *Experiments on the Effects of Subtle Energy on the Electro-Magnetic Field: Is Subtle Energy the 5th Force of the Universe?*

The discovery of changes in the radioactive decay rate (RDR) as a result of solar activity raises a fundamental question: what kind of unknown energy field is the cause of this phenomenon? A hint about the answer to this question can be found in experiments which report changes in RDR under the influence of Subtle Energy/Chi transmitted by a human being.

These experiments demonstrate that the force of SE/Chi can alter the action of one of the four fundamental forces of the Universe, the “Weak Force” (WF). According to the Electro-Weak theory, the WF and Electromagnetic Force have the same roots. This raises another fundamental question: Is it possible that SE can also alter the EM field?

The experiments presented in our report demonstrate that the energy of the EM field present in the area surrounding a small disk of man-made quartz was diminished by more than 34% when the quartz disk was “infused” with a specific SE pattern generated by Vital Force Technology.

Conclusion: Subtle Energy is one of the fundamental forces of the Universe and can affect the action of the whole Electro-Weak Force.

This result calls for more experiments to attempt to change the RDR using various technologically generated Subtle Energy patterns. The fact that only certain patterns of SE affect the EM field indicates that the action of SE greatly depends on the information encoded in a particular energy pattern. This phenomenon was also observed in our experiments reported in Society for Scientific Exploration – 27th Annual Meeting, 2008.

Joie Jones, PhD - Joie Jones received the BA and MA degrees from the University of Texas at Austin (1963 & 1965) and the PhD degree in physics from Brown University (1970). Since 1977, he has been Professor of Radiological Sciences at the University of California Irvine. His list of publications contains over 400 items, including 4 books and 50 patents. Dr. Jones has a wide range of professional interests. In recent years, Dr. Jones has become interested in the critical evaluation of both diagnostic and therapeutic medicine modalities, particularly in the areas of complementary and alternative medicine and subtle energy medicine. His landmark studies of acupuncture using contemporary medical imaging and of Pranic Healing using conventional laboratory methods are providing a scientific understanding and basis for these ancient healing methods. Dr. Jones also serves or has served as a consultant to a number of private corporations and government agencies, including the United Nations, the Carter and Obama Administrations.

Bios: Yury Kronn, PhD - Yury Kronn is a researcher, theoretician and inventor in the field of subtle energy and subtle energy technologies. He was educated as a quantum radiophysicist in the former Soviet Union, at Gorky University and the Lebedev Institute of Physics and continued his education with extensive research into the ancient sciences and Eastern Medical Traditions. After coming to the U.S. in 1988, Dr. Kronn invented Vital Force Technology, a “quantum field” technology comprised of a tunable-plasma-based generator that can produce and formulate subtle energy patterns, a storage system, and an infusing system that can imprint these subtle energy patterns into almost any substance. His list of publications includes 1 book, over 80 articles, 4 patents in Russia and 1 in the US.

Marsha Adams, *Do Atmospheric Aberrations Precede Seismic Activity?*

Many anecdotal accounts exist of aberrant atmospheric colors, rainbows, and light flashes prior to seismic activity but few have been recorded. A collection of optical anomalies which occurred prior to seismic activity will be presented. These include: this author's film pictures from the early 1980's that show reddish hue sky color changes prior to local earthquakes in the San Francisco Bay Area. A "fire rainbow" in Sichuan China that occurred just 30 minutes before the 2008, M7.8 earthquake. Flashes of light recorded on video in a clear sky prior to an earthquake swarm near the CA-OR border. An anomalous mirage seen from the air over the San Francisco Bay area the day after the Livermore 1980, M5.8 quake. Dramatic changes in the sky color in Sedona Arizona, prior to the April 4, 2010 Guadalupe Victoria Baja M7.2 quake (approximately 250 miles from Sedona). Subsequent similar sky color changes prior to major Baja aftershocks and other notable seismic activity. Various components of the optical spectrum will be explored as well as possible mechanisms for the aberrations.

Bio: Marsha Adams is the President of the non-profit International Earthlight Alliance (IEA). IEA's goal is to make science more user-friendly through the study of anomalies. Originally trained in chemistry and biology she broadened her knowledge to geophysics and specializes in interdisciplinary research. In her 13 years in medical research, she has published several pioneering papers such as co-authoring a publication with Stanford's Norman Shumway that launched the popularity of coronary bypass surgery. She pioneered the concept that earthquakes could be forecast by monitoring extremely low frequency EM, and constructed the first civilian monitoring station to do so in the late 1970s. She was part of the Remote Viewing (RV) project at SRI International (where she also worked as a Sr. systems analyst) . She published two papers showing that RV results were influenced by the ambient geomagnetic field.

Marsha Adams investigates influences of the measurable geophysical environment on biological processes. She has examined databases of tens of thousands of cases of biological data correlating them with solar-terrestrial activity. She goes on world wide expeditions to measure sacred sites, earthlight sites, effigy mounds, Mexican pyramids, geopathic zones, and even crop circles. She has assembled a geophysical observatory in Sedona, AZ to study earthlights and other anomalies that exist in the area.

Courtney Brown, *The Creation of the Asteroid Belt: Using Remote-Viewing Data to Investigate the Exploding Planet Hypothesis*

Ever wonder how the asteroid belt formed? The prevailing theory says that it is essentially a planet that never formed out of the original primeval solar nebula of gas and dust. However, there are huge problems with this theory. For example, the asteroids are large rocks that arguably needed a significant gravity source in order to form in the first place. The late astronomer Tom Van Flandern, who led the Celestial Mechanics Branch of the Nautical Almanac Office at the U.S. Naval Observatory in Washington, D.C. from 1963 to 1983, developed an alternate theory explaining the origin of the asteroid belt which he described in detail in his book: *Dark Matter, Missing Planets, & New Comets*. His idea is that a planet once existed in that location in our solar system, and it exploded. We call this the "exploding planet hypothesis." This theory has been widely ridiculed in mainstream astronomical circles, mainly because of resistance by mainstream astronomers to the idea that planets could explode in the first place. Dr. Courtney Brown presents the results of a new remote-viewing project that was conducted at The Farsight Institute that re-examines this hypothesis. Four highly trained remote viewers using CRV and HRVG military-grade methodologies participated in this scientific study. Exacting scientific controls were used throughout the data-collection process.

Bio: Courtney Brown, Ph.D., is a college professor and Director of The Farsight Institute. He has recently published a book on the science of remote viewing titled *Remote Viewing: The Science and Theory of Nonphysical Perception*.

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Francesca McCartney, *Energy Medicine University: Education at the Frontier of Science*

Our current academic paradigm is based on archaic concepts and measurement instruments. The world has altered radically in the last 20 years with continued exponential shifts. Our interactions are now affected by global forces and unprecedented events. The structure of education needs to evolve along with the world changes. There is a paramount need for educational institutions that honor the interconnectedness of global communications, diversity of cultures, are progressive, and include ancient and new knowledge grounded in science and wisdom. These schools will teach individuals how to think differently to manage 21st Century issues and future events. They will incorporate disciplines that up to now have been deemed alternative or peripheral.

Bio: Francesca McCartney holds a dual PhD in Energy Medicine and Intuition Medicine®. Since 1976, Francesca has worked full time as a holistic health educator, medical intuitive in an integrative medicine clinic, meditation instructor, and author. In 1984, she founded the Academy of Intuition Medicine, the first California State licensed vocational program in the field of energy medicine; and in 2006 established the State approved Energy Medicine University offering Master of Science and Doctor of Philosophy degrees in Integrative Holistic Health.

Dominique Surel, *Transformational Effects of Learning Controlled Remote Viewing*

This presentation addresses the transformational impact that learning CRV can have on a viewer's consciousness and sense of reality. The actual experience of *traveling* in the time-space matrix has a dual implication: the impact on brain restructuration, and state of consciousness. The presentation explores the process of accessing non-local information to include research findings in neuroscience (brain plasticity) and quantum physics. Verbatim comments from CRV learners and operational viewers about their transformational experience will be presented.

Over time, the CRV protocol creates a communications channel and a language between the conscious and the unconscious mind. By keeping the conscious busy with administrative type chores, the door of the unconscious is then free from interference and the viewer can *travel* into the time-space matrix and retrieve information. Freeing up the unconscious and expanding the aperture creates new experiences for the individual who will see and feel impressions from different time-space-event environments. It is to be expected that the viewer's perceptions and reference points in life would then be affected.

Many CRV learners report increased clarity in decision-making and assessing situations, as well as increased positive synchronicities in their lives, and an increase in intuitive insights. The CRV experience is different than lucid dreaming or time-traveling in an altered state. The controlled remote viewer is in a state of alertness and fully conscious while following the protocol of the session.

Bio: Dominique Surel holds a Doctoral degree in Organizational Leadership, and an MBA. While living in Paris and London, she worked for over 15 years as a consultant for global corporations in strategic positioning. She also trained in Controlled Remote Viewing (CRV) to the Advanced Level with the original military viewer Lyn Buchanan. For over ten years her operational work has focused on business applications, police work, and personal development. She has been a professional radiesthésiste for over 15 years, and is a Professor at Energy Medicine University where she teaches CRV, Intuitive Intelligence, and Spiritual Leadership. She lectures internationally and conducts workshops and trainings on developing and applying Intuitive Intelligence.

Alexis Champion, *Remote Viewing Software: The Key to Profitability*

As with any technology seeking to position itself in a growing business, Remote Viewing (RV) faces the fundamental challenges of feasibility and profitability. The lack of RV software tools that could enhance the effectiveness of work in this field could be due to the fact that there are few software developers operating in the world of RV. IRIS Intuition Consulting saw the opportunity to take-on the challenge and invested in an R&D program dedicated to the development of RV software.

In 2010 nearly \$19,000 was allocated to research, and the *iCAT* session analysis software tool (using a crosschecking method) was created. This multipurpose software works on session transcripts, identifies any and all unitary information (concepts), defines sorting categories while sorting, and for projects involving more than one viewer, crosschecks through the different categories. *iCAT* has enabled the IRIS team to work almost ten times faster than when they were using MS-Excel. This significant time saving frees up the analyst to better concentrate on both the details and scope of data. Thus, project delivery times, quantity of data, and quality of RV projects have all been enhanced. All IRIS' clients benefit from this increased effectiveness and each project has become profitable. In addition, a surprising effect was noticed: as the software developed in functionality and speed of operation, the amount of information generated by the viewers increased to such a level that by September 2010, the maximum amount of time allotted to each session was decreased.

Today IRIS has embarked on another R&D project to develop a web platform so that session work can be recorded with related statistical information, and with automatic computer analysis of the session. The implementation of this web platform will help improve the training process of viewers and offer other types of valuable services to viewers whether they are professionals, amateurs, or in training. The platform could eventually define and become the international database standard for RV.

Bio: Alexis Champion holds a Ph.D. in Computer Science with a specialty in Artificial Intelligence. He is the Founder and Director of IRIS Intuition Consulting, and President of IRIS-PA a non-profit organization. From 1997 to 2003 he worked as a researcher in artificial intelligence for both corporations and governmental labs, and as a software consultant for the French Transportation industry. He has authored several internationally published articles in the fields of artificial intelligence, virtual reality, and transportation, and lectures in various countries to include Europe, USA, China and Australia. He has been operational for many years in remote viewing (ERV, GRV), classic and technical dowsing, and has been trained in Controlled Remote Viewing (CRV) by the original military viewers Paul H. Smith and Lyn Buchanan

Dale Graff, *Precognition and Synchronicity: Implications for Safety and Survival*

For centuries, numerous instances of spontaneous precognitive experiences about approaching future situations have been reported by credible individuals. These precognitions range from trivial to significant, may relate to the individual having the experience or to others, know or unknown. Many of these glimpses into the future provide information for the individual's physical well being and safety. Sometimes precognitions are not presented to conscious awareness but can still be effective by prompting impulses to action through intuitions and synchronicities.

To gain insight into the possible link between precognition and synchronicity, and their implications for safety and survival, I review details of a few such experiences from a case study or phenomenological point-of-view. These relate to tragic events and include the Columbia Space Shuttle disaster, the TWA 800 explosion and a colleague's unexpected death. A precognitive – synchronicity link was also observed for a witnessed replication of a "chair test." Chair tests involve predicting who will be seated in a specific seat at a future public meeting and were frequently demonstrated by Gerold Croiset, a Dutch clairvoyant, in the 1940s – 1960s.

These precognitive – synchronistic experiences along with implications from psi research and spontaneous occurrences suggest that in some instances, they can function synergistically and help individuals avoid potential injury or even death. Some precognitions may even provide hints about survival after bodily death. Issues regarding interpretation of suspected precognitions are discussed.

Dale E. Graff is a researcher, writer, and speaker internationally known for his insights into the processes of the mind. He was a director of STARGATE, the government's program for research and applications of remote viewing—an aspect of extrasensory perception (ESP). He is recognized for his understanding of our natural psi talents as being a spectrum available while awake, Conscious State Psi, (CSP) and while asleep and dreaming, Dream State Psi (DSP).

His books, *Tracks in the Psychic Wilderness* and *River Dreams* have brought him international recognition as he describes his personal evolution from scientific doubter—degrees in aeronautical engineering and physics—to that of accepting the reality of psi abilities. His books have been praised for their honesty and for the way he presents psychic experiences in a neutral perspective, free of dogma and belief systems. He has appeared on several national and international TV programs, including Good Morning America, Larry King Live, The Crier Report, CNN Sunday Morning News, and several documentaries for the A & E and History Channel.

John MacLean, *Premonitions and other PSI in Reliability Engineering*

I teach two classes at Utah Valley University in Orem, Utah in which we examine in the last week of class several PSI related subjects. These classes, Technology and Human Life, and Understanding Technology, are lower division University courses. In the first we consider the social, ethical and legal issues with developing technology and in the second, just understanding how current technology works. Many of my students are married with families and work full time in technology related vocations. They tend to be very pragmatic.

I only discuss in class, PSI related science that is backed up by good statistics. During one session, a crusty construction fellow inquired, "What's the Point?" He expressed the feeling of many that things like Premonitions, Remote Viewing, Telekinesis, Telepathy, and others, have no practical value and may not even be real. We have, I think, a responsibility to develop and communicate how these phenomena can be useful to society.

In that regard, this presentation will show how Premonitions and possibly some other phenomena are vital in the Reliability and Safety aspects of Aviation and other safety critical vocations including operating room personnel, ship bridge crews and industrial plant employees. One vital process for these people and indeed, even all of us, is Situational Awareness, or knowing what is going on around us. Early work in this area was done by Dr. Robert Helmreich at the University of Texas Psychology Department (ret) under a NASA contract. Training in this area is required by the FAA for all commercial aviation crews and has been found extremely valuable in many other areas.

We teach how to recognize when Situational Awareness is being lost, using 11 clues to losing it. One of these is the presence of a gut feeling that something is wrong. This is a good definition of a premonition. We will discuss how this relates to the other clues and how there may be some other PSI phenomena operating in conjunction. Some examples of this in actual operations will be given. Some rationales for ignoring such warnings will be explored.

Bio: John MacLean was born in a coal camp ghost town in Utah and grew up in Sheridan, Wyoming. He attended the University of Wyoming, and University of Utah where he received a BS in Chemical Engineering. After a successful career in the Oil Industry, including 20 patents, he received a Masters in Technology at Eastern Michigan University. During a period of consulting engineering, John became connected with the Society for Scientific Exploration at their Santa Fe meeting in the early 90's. John has been active in the SSE ever since and hosted the 25th annual meeting in Utah and has served on the council for 6 years. John has taught in the Utah Valley University department of Technology Management since 2000. He has included PSI related technologies in his curriculums of two classes for the last two years.

John B. Alexander - *Signal to Noise: A Fundamental Problem for Phenomenology*

There are signals that can be detected or transmitted by human practitioners of remote viewing, dowsing, remote healing and other psi fields. That those signals exist, and can be detected or transmitted, is a basic premise under which psi operates. Those signals can transmit information about places, events, or other conditions that are determined to be objective targets. Scientific experiments demonstrate psi influence as statistically significant effect replicable over time.

Many counter-advocates deny the possibility that psi signals exist despite a considerable body of evidence that has been amassed. More perplexing is that some of these signals seem to violate existing notions of time and allow for both precognition and retrocognition. However the strength of those signals and effects, when compared to other information/effects, is often referred to as noise, a description of the information background environment. In fact, the “signal-to-noise ratio” is commonly used to address these issues in all signals analysis.

Throughout history psychics have made claims about their efforts in obtaining accurate information. Traditionally, they focus on extraordinary success stories supported by anecdotal evidence. Rarely acknowledged are the dramatic claims and predictions that are demonstrably wrong. In reality, such claims are seriously damaging the credibility of the entire field while clearly providing the legitimate skeptics with viable ammunition with which to attack the basic validity of all research in phenomenology.

Media attention often focuses on fast-breaking dramatic stories and pays little attention to fact checking. In their venue, the entertainment value outweighs the facts or real newsworthiness of the event. Concocted stories often are reported as if true and such events taint public perception of credible research.

Therefore, there is an urgent need to elucidate the endemic signal to noise issues attendant to all psi research. Efforts are needed to enhance weak signals while decreasing background noise. If we are to attain appropriate status in scientific disciplines, the researchers must be prepared to address both positive and negative outcomes as well as their relevancy to the public.

Bio: John B. Alexander, Ph.D. is a long time researcher of phenomenology and an SSE councilor. He retired from the Army and later Los Alamos National Laboratory. He is broadly published in many areas. His most recent book, *UFOs: Myths, Conspiracies, and Realities*, was published by St. Martin's press in Feb 2011. More information is available at www.johnbalexander.com

Jonathan Schooler, *The Decline Effect: Exploring Why Effects Sizes often Decline Following Repeated Replications*

Although researchers in parapsychology have long acknowledged the peculiar observation that effect sizes tend to decrease with repeated replication of the same or similar paradigms, the more general observation of decline effects across broad swaths of science has yet to receive adequate attention. This talk will review decline effects in parapsychology, biology, and medicine, and consider alternative factors that may underpin this surprisingly broad and currently unexplained phenomenon. Ways to scientifically address this issue will be considered including the development of open repositories for scientific findings in which scientists log study designs before their implementation, and then subsequently report all findings regardless of outcome

Bio: Jonathan Schooler, PhD is a Professor of Psychology at the University of California at Santa Barbara, where he pursues research on consciousness, memory, the relationship between language and thought, problem-solving, and creativity. He is particularly interested in phenomena at the intersection of psychology and philosophy such as how fluctuations in people's awareness of their experience mediate mind-wandering and how exposing individuals to philosophical positions alters their behavior. A graduate of Hamilton College, he received his Ph.D. from the University of Washington in 1987 and then joined the psychology faculty of the University of Pittsburgh. He moved to the University of British Columbia in 2004 as a Canada Research Chair in Social Cognitive Science and joined the faculty at UCSB in 2007. He is co-editor of *Scientific Approaches to Consciousness*, which was published in 1997 by Lawrence Erlbaum.

Henry Bauer, *From Dawn to Decadence: The Evolution of Modern Science*

From Dawn to Decadence, the magisterial book by Jacques Barzun, has the sub-title, “500 Years of Western Cultural Life 1500 to the Present”. Roughly that same period has seen also the dawn of modern science and its decadence in the latter part of the 20th century. Science changed from an elite avocation into a mass activity, from innovative and ground-breaking to overwhelmingly mediocre, and from highly trustworthy to highly unreliable.

Science became highly reliable as conservative peers resisted novel claims, insisting on strong evidence before abandoning earlier theories; but in the latter half of the 20th century, such relatively healthy resistance to unorthodox claims morphed into active suppression of minority views in science. Dogmatic insistence on wrong theories that are the basis for public policies has brought colossal damage.

A fuller discussion than I can give here is in my new book, *Dogmatism in Science & Medicine: How Dominant Theories Monopolize Research and Stifle the Search for Truth* (McFarland, 2011, in publication).

Bio: Henry Bauer is Professor Emeritus of Chemistry & Science Studies and Dean Emeritus of Arts & Sciences, Virginia Polytechnic Institute & State University (Virginia Tech). Earlier he had been at the Universities of Sydney, Michigan, Southampton, and Kentucky. He is Austrian by birth (1931), Australian by education (1939-56), and American (since 1969) by choice. His publications include more than a hundred articles and ten books, chiefly in chemistry and science studies --- details and CV are at www.henrybauer.homestead.com. Currently blogging at <http://hivskeptic.wordpress.com>, and expecting publication by McFarland in 2011 of *Dogmatism in Science and Medicine: How Dominant Theories Monopolize Research and Stifle the Search for Truth*.

Ron Westrum, *Closed Minds and Battered Kids: How Science Resists Knowledge of Anomalies*

In the middle of the 1950's, the new discipline of pediatric radiology was finding a syndrome associated with repeated injuries (sometimes in different stages of healing) to children that did not seem to be explained by the parents' "history." Children were being harmed, apparently, by why or by whom was not known. John Caffey, who wrote the first textbook on pediatric radiology, was the pioneer in bring "multiple unsuspected traumata" into the medical corpus. But he was a very reluctant pioneer, and did not connect all the dots between the injuries to children (brain hematomas, greenstick fractures in the arms and legs) and the dynamics of the family. Pediatricians mostly did not believe that parents for other caregivers would inflict injuries on the children, even though evidence was abundant that it was happening. Into this vacuum stepped Henry Kempe, charismatic pediatrician, with a background in public health, and a determination to do something about the problem. Developing interdisciplinary teams that included both physicians and social workers, Kempe used a dramatic public presentation to put child abuse ("the battered child syndrome") on the medical agenda. Within a decade, child abuse and neglect went from a stage of "uncorrelated observations" to controversy and finally public acceptance.

In considering this case, we can see that often scientists are not themselves aware of the dynamics of science, and often erroneously think that if certain events were occurring, "they would be the first to know." We can show, by contrast, that they are often the last to know, and fail to consider how their own attitudes might prevent knowledge from accumulating. Furthermore the case study underlines the processes that allow awareness to take place, including in this instance the ability to do something constructive to solve the problem. Other anomalies may well share similar dynamics, so it is important for our approach to anomalistics to take into account how anomalies reach public awareness, often in "unscientific" ways.

Bio: Ron Westrum is emeritus professor of sociology at Eastern Michigan University, where his specialty has been the dynamics of science and technology. He also is adjunct professor of "society and risk" at the University of Stavanger, Norway. He is widely recognized for his contributions to system safety, particularly in the area of corporate culture, where he has shown the consequences of different cultures in information processing. He is a member of the Resilience Core Group, and is frequently asked to present his ideas to international meetings on aviation, nuclear, and medical safety. In addition to numerous contributions to journals and handbooks, he has published three books, the most recent of which is "Sidewinder: Creative Missile Design at China Lake" (Naval Institute Press, 1999). He has two children and lives in Ann Arbor, Michigan

Claude Swanson, *Dark Matter, Torsion and ESP Reception*

Many years of ESP and Remote Viewing experiments were analyzed by Spottiswood (Spottiswood, 1997) to determine if any astronomical, geological or meteorological phenomena might affect the accuracy of psychic reception. The largest correlation was found with sidereal time. Psychic reception was most accurate in a time window centered around 13.5 hours sidereal. This corresponds to the time when the constellation Virgo is overhead. During this period psychic reception is about 4 times more accurate than during any other time of day. A possible explanation for this effect can be found by combining three insights from astronomy and Russian torsion research. They are as follows:

1. “Left handed” torsion increases ESP abilities. This was asserted by Kozyrev in an interview in the 1970 book, *Psychic Discoveries Behind the Iron Curtain* (Ostrander, 1970), and has been confirmed in later papers and by magnetic healing pioneers Davis and Rawls in experiments (Davis, 1975).

2. In torsion experiments conducted by Kozyrev and independently confirmed by Lavrentiev, “left handed” torsion produces a “gravitation-like” effect. This implies that regions of space exhibiting anomalously strong gravity can be explained if they are charged with “left handed” torsion.

3. The region of sky which is overhead at 13.5 hours sidereal is known as the “Great Attractor” because it is a region of anomalously strong gravity (dark matter).

The logical conclusion of these insights is that the “Great Attractor” which is overhead at 13.5 hours sidereal may be charged with “left hand” torsion, which is responsible for the high gravitational attraction, and this form of torsion has also been shown to cause an increase in ESP reception abilities. The supporting evidence behind each of these three claims will be discussed at greater length in the talk.

The larger issue implied by these observations is that “dark matter” and “dark energy,” which have puzzled the physics community, can be explained if torsion, as defined by Russian scientists, is included. Torsion occurs in two forms, left handed and right handed. The former appears to increase the attraction of masses and behaves as though it increases gravity, while right handed torsion appears to have the opposite effect. Therefore it may be possible to account for the puzzling observations regarding dark matter and dark energy if these two forms of torsion are considered.

While virtually unknown among Western scientists, torsion has been studied and verified over a forty year period in Russia, and has given rise to inventions, technologies and patents. The application of torsion to the sidereal time peak, as well as to the “dark matter” and “dark energy” puzzles, are but a few of many anomalies which this force may be able to explain.

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Author of *Life Force, the Scientific Basis* and *The Synchronized Universe*

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Alexander Trofimov, Kozyrev's "Remote Viewing" Of The Universe

N.A. Kozyrev, an eminent Russian astrophysicist, gave proof of the unique possibility of researching the space without being constrained by the speed of light. According to his theory, cosmic consciousness of the human observer can instantly travel from one point of the Universe to another. To do this it is essential that a zone of energy-time compaction be created around the observer. 50 years after the first human space flight (Yurii Gagarin, April 12th, 1961) we had to experimentally prove a different way of cosmic traveling in Kozyrev's space.

The first trial of energy-time compacting Kozyrev's mirrors was conducted 1990-1991 in the Far North - the region where, as Kozyrev assumed, time changes its direction allowing access to the future. It was shown that a laser ray sent from the mirrors and directed at the Moon can instantly transfer information to the Moon thus allowing hundreds of people on Earth to receive this information. The photograph of the Moon was one of the objects of the experiment conducted by ISRICA in Kozyrev's Mirrors June 19th, 2001. During the experiment several energy objects were recorded on film while revolving around the head of one of the participants (Kaznacheev V.P, Trofimov A.V., 2008).

During the sun eclipse that took place on March 22, 2006, Kirlian photopolaroid device made a record of a cone of light with a coded matrix that contacted field structure of the operator in Kozyrev's Mirrors. At the time of the full solar eclipse in Novosibirsk on August 1, 2008 Doctor T.Kuznetsova laid out the specifics of a module that was replicated August 10, 2008 when using a cosmophysical hologram they managed to get digital photographs of certain photonic energy objects (possibly field forms of life) that are unknown to modern science. During the solar eclipse on June 22, 2009, with the use of a holographically altered water it was discovered that heart rates of the participants of the experiment who volunteered to observe the eclipse synchronized with each other. There were volunteers from Novosibirsk, Tashkent (Uzbekistan) and Beijing (China).

Researchers from ISRICA were able to give on 2010-11 years descriptions of moonscape and various objects on and under the surface of the Moon; the information about these objects is being constantly supplemented and systematized. These descriptions were obtained by ISRICA researchers within the framework of "Remote Viewing" method from the compacted energy-time zone in Kozyrev's mirrors. It seems that the promising new holographic mirror technology can be used to synchronically monitor near and deep space, various paleoastronomical objects on the Earth (according to N. A. Kozyrev's 'the past and the future in the present' formula), as well as searching for remote contacts with extraterrestrial civilizations.

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Walter Cruttenden, *The Cosmic Influence: A Framework for Epochal Changes in Consciousness*

Ancient cultures around the world spoke of a vast cycle of time with alternating dark and golden ages; Plato called it the Great Year. Recent archaeological and anthropological evidence suggests that long before the classical Dark Age mankind had knowledge of astronomy, mathematics, advanced engineering techniques and many other capabilities that don't easily fit the linear paradigm. The myth and folklore from multiple yet unrelated cultures hint at a pre Babel consciousness that goes beyond the limits of the five senses, implying abilities that are the subject of much SSE research today.

This talk explores the possibility that the precession of the equinox (the movement of the stars across the sky – at about 50” per year), which so fascinated the ancients, has been misdiagnosed and may be the observable of our solar system in motion. Beyond producing changes in our ionosphere, magnetosphere, and the ebb and flow of the ice ages, it might also be the indirect mechanism resulting in the waxing and waning of consciousness implied in the writings of men from Hesiod to Newton.

Bio: Walter Cruttenden is the Director of the Binary Research Institute in Newport Beach, California, author of *Lost Star of Myth and Time*, and writer producer of the award winning documentary film, *The Great Year*, as well as many articles and papers on the subject of solar system motion and its influence on history and consciousness. Walter is the host of a regular podcast series, *The Cosmic Influence*, and organizer of the annual *Conference on Precession and Ancient Knowledge* (CPAK), which features authors and scientists from around the world addressing the topic of ancient knowledge.

In his early career, Cruttenden founded and served as CEO of two well known investment banking and brokerage firms; Cruttenden Roth (now Roth Capital, one of the largest providers of equity capital to emerging growth companies in the world), and E*Offering, formerly part of E*Trade Securities, both which specialized in the research and funding of new growth companies, mostly in the technology and biotech industries.

Cruttenden has appeared several times on *The History Channel*, *PBS* and many news programs, and has been a repeat guest on syndicated radio shows, especially in the alternative science field, such as *Coast to Coast*, with George Noory.



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