

<http://www.frontiersin.org/Journal/10.3389/fnhum.2014.00017/full>

This opinion article by Etzel Cardeña has been signed by many scientists from all over the world and I am one of the signatories. / Dieser Artikel von Etzel Cardeña in englischer Sprache wurde von vielen Wissenschaftlern aus aller Welt gezeichnet und ich gehöre ebenfalls zu den Unterzeichnern. Harald Walach

A call for an open, informed study of all aspects of consciousness

Etzel Cardeña
Lund University, Sweden

Science thrives when there is an open, informed discussion of all evidence, and recognition that scientific knowledge is provisional and subject to revision. This attitude is in stark contrast with reaching conclusions based solely on a previous set of beliefs or on the assertions of authority figures. Indeed, the search for knowledge wherever it may lead inspired a group of notable scientists and philosophers to found in 1882 the Society for Psychical Research in London. Its purpose was “to investigate that large body of debatable phenomena... without prejudice or prepossession of any kind, and in the same spirit of exact and unimpassioned inquiry which has enabled Science to solve so many problems.” Some of the areas in consciousness they investigated such as psychological dissociation, hypnosis, and preconscious cognition are now well integrated into mainstream science. That has not been the case with research on phenomena such as purported telepathy or precognition, which some scientists (a clear minority according to the surveys conducted¹) dismiss a priori as pseudoscience or illegitimate. Contrary to the negative impression given by some critics, we would like to stress the following:

1) Research on parapsychological phenomena (psi) is being carried out in various accredited universities and research centers throughout the world by academics in different disciplines trained in the scientific method (e.g., circa 80 Ph.D.s have been awarded in psi-related topics in the UK in recent years). This research has continued for over a century despite the taboo against investigating the topic, almost complete lack of funding, and professional and personal attacks². The Parapsychological Association has been an affiliate of the AAAS since 1969, and more than 20 Nobel prizewinners and many other eminent scientists have supported the study of psi or even conducted research themselves [3].

2) Despite a negative attitude by some editors and reviewers, results supporting the validity of psi phenomena continue to be published in peer-reviewed, academic journals in relevant fields, from psychology to neuroscience to physics e.g., [4-7].

3) Increased experimental controls have not eliminated or even decreased significant support for the existence of psi phenomena, as suggested by various recent meta-analyses [5], [8-16].

4) These meta-analyses and other studies [17] suggest that data supportive of psi phenomena cannot reasonably be accounted for by chance or by a “file drawer” effect. Indeed, contrary to most disciplines, parapsychology journals have for decades encouraged publication of null results and of papers critical of a psi explanation [18-19]. A psi trial registry has been established to improve research practice [20].

5) The effect sizes reported in most meta-analyses are relatively small and the phenomena cannot be produced on demand, but this also characterizes various phenomena found in other disciplines that focus on complex human behavior and performance such as psychology and medicine [21-22].

6) Although more conclusive explanations for psi phenomena await further theoretical and research development, they do not prima facie violate known laws of nature given modern theories in physics that transcend classical restrictions of time and space, combined with growing evidence for quantum effects in biological systems [23-24].

With respect to the proposal that “exceptional claims require exceptional evidence,” the original intention of the phrase is typically misunderstood²⁵. Even in its inaccurate interpretation what counts as an “exceptional claim” is far from clear. For instance, many phenomena now accepted in science such as the existence of meteorites, the germ theory of disease, or, more recently, adult neurogenesis, were originally considered so exceptional that evidence for their existence was ignored or dismissed by contemporaneous scientists. It is also far from clear what would count as “exceptional evidence” or who would set that threshold. Dismissing empirical observations a priori, based solely on biases or theoretical assumptions, underlies a distrust of the ability of the scientific process to discuss and evaluate evidence on its own merits. The undersigned differ in the extent to which we are convinced that the case for psi phenomena has already been made, but not in our view of science as a non-dogmatic, open, critical but respectful process that requires thorough consideration of all evidence as well as skepticism towards both the assumptions we already hold and those that challenge them.

Signatories:

A call for an open, informed study of all aspects of consciousness

Daryl Bem, Professor Emeritus of Psychology, Cornell University, USA
Etzel Cardeña, Thorsen Professor in Psychology, Lund University, Sweden
Bernard Carr, Professor in Mathematics and Astronomy, University of London, UK
C. Robert Cloninger, Renard Professor of Psychiatry, Genetics, & Psychology, Washington University in St. Louis, USA
Robert G. Jahn, Past Dean of Engineering, Princeton University, USA
Brian Josephson, Emeritus Professor of Physics, University of Cambridge, UK (Nobel prizewinner in physics, 1973)
Menas C. Kafatos, Fletcher Jones Endowed Professor of Computational Physics, Chapman University, USA
Irving Kirsch, Professor of Psychology, University of Plymouth, Lecturer in Medicine, Harvard Medical School, USA, UK
Mark Leary, Professor of Psychology and Neuroscience, Duke University, USA
Dean Radin, Chief Scientist, Institute of Noetic Sciences, Adjunct Faculty in Psychology, Sonoma State University, USA
Robert Rosenthal, Distinguished Professor, University of California, Riverside, Edgar Pierce Professor Emeritus, Harvard University, USA
Lothar Schäfer, Distinguished Professor Emeritus of Physical Chemistry, University of Arkansas, USA
Raymond Tallis, Emeritus Professor of Geriatric Medicine, University of Manchester, UK
Charles T. Tart, Professor in Psychology Emeritus, University of California, Davis, USA
Simon Thorpe, Director of Research CNRS (Brain and Cognition), University of Toulouse, France
Patrizio Tressoldi, Researcher in Psychology, Università degli Studi di Padova, Italy
Jessica Utts, Professor and Chair of Statistics, University of California, Irvine, USA
Max Velmans, Professor Emeritus in Psychology, Goldsmiths, University of London, UK
Caroline Watt, Senior Lecturer in Psychology, Edinburgh University, UK
Phil Zimbardo, Professor in Psychology Emeritus, Stanford University, USA
P. Baseilhac, Researcher in Theoretical Physics, University of Tours, France
Eberhard Bauer, Dept. Head, Institute of Border Areas of Psychology and Mental Hygiene, Freiburg, Germany
Hans Bengtsson, Professor in Psychology, Lund University, Sweden
Michael Bloch, Associate Professor of Psychology, University of San Francisco, USA
Stephen Braude, Professor of Philosophy Emeritus, University of Maryland Baltimore County, USA
Richard Broughton, Senior Lecturer, School of Social Sciences, University of Northampton, UK
Antonio Capafons, Professor in Psychology, University of Valencia, Spain
Allan Leslie Combs, Doshi Professor of Consciousness Studies, California Institute of Integral Studies, USA
Deborah Delanoy, Emeritus Professor of Psychology, University of Northampton, UK
Arnaud Delorme, Professor of Neuroscience, Paul Sabatier University, France
Vilfredo De Pascalis, Professor of General Psychology, „La Sapienza“ University of Rome, Italy
Kurt Dressler, Professor in Molecular Spectroscopy Emeritus, Eidg. Techn. Hochschule Zürich, Switzerland
Hoyt Edge, Hugh H. and Jeannette G. McKean Professor of Philosophy, Rollins College, USA
Franco Fabbro, Professor in Child Neuropsychiatry, University of Udine, Italy
Enrico Facco, Professor of Anesthesia and Intensive Care, University of Padua, Italy
Wolfgang Fach, Researcher, Institute of Border Areas of Psychology and Mental Hygiene, Freiburg, Germany
Harris L. Friedman, Former Research Professor of Psychology, University of Florida, USA
Alan Gauld, Former Reader in Psychology, University of Nottingham, UK
Antoon Geels, Professor in the Psychology of Religion Emeritus, Lund University, Sweden
Richard Conn Henry, Academy Professor (Physics and Astronomy), The Johns Hopkins University, USA
David J. Hufford, University Professor Emeritus, Penn State College of Medicine, USA
Oscar Iborra, Researcher, Department of Experimental Psychology, Granada University, Spain
Harvey Irwin, former Associate Professor, University of New England, Australia
Graham Jamieson, Lecturer in Human Neuropsychology, University of New England, Australia
Per Johnsson, Head, Department of Psychology, Lund University, Sweden
Hideyuki Kokubo, Researcher, Institute for Informatics of Consciousness, Meiji University, Japan
Jeffrey J. Kripal, J. Newton Rayzor Professor of Religious Studies, Rice University, USA
Stanley Krippner, Professor of Psychology and Integrated Inquiry, Saybrook University, USA
David Luke, Senior Lecturer, Department of Psychology and Counselling, University of Greenwich, UK
Fatima Regina Machado, Researcher, Universidade de São Paulo, Brasil
Markus Maier, Professor in Psychology, University of Munich, Germany

A call for an open, informed study of all aspects of consciousness

Gerhard Mayer, Researcher, Institute of Border Areas of Psychology and Mental Hygiene, Freiburg, Germany
Antonia Mills, Professor First Nations Studies, University of Northern British Columbia, Canada
Garret Moddel, Professor in Electrical, Computer, & Energy Engineering, University of Colorado, Boulder, USA
Alexander Moreira-Almeida, Professor in Psychiatry, Universidade Federal de Juiz de Fora, Brasil
Andrew Moskowitz, Professor in Psychology and Behavioral Sciences, Aarhus University, Denmark
Julia Mossbridge, Fellow in Psychology, Northwestern University, USA
Judi Neal, Professor Emeritus of Management, University of New Haven, USA
Roger Nelson, Retired Research Staff, Princeton University, USA
Alejandro Parra, Researcher in Psychology, Universidad Abierta Interamericana, Argentina
José Miguel Pérez Navarro, Lecturer in Education, International University of La Rioja, Spain
Gerald H. Pollack, Professor in Bioengineering, University of Washington, Seattle, USA
John Poynton, Professor Emeritus in Biology, University of KwaZulu-Natal, South Africa
David Presti, Senior Lecturer, Neurobiology and Cognitive Science, University of California, Berkeley, USA
Thomas Rabeyron, Lecturer in Clinical Psychology, Nantes University, France
Inmaculada Ramos Lerate, Researcher in Physics, Alba Synchrotron Light Source, Barcelona, Spain.
Chris Roe, Professor of Psychology, University of Northampton, UK
Stefan Schmidt, Professor, Europa Universität Viadrina, Germany
Gary E. Schwartz, Professor of Psychology, Medicine, Neurology, Psychiatry, and Surgery, University of Arizona, USA
Daniel P. Sheehan, Professor of Physics, University of San Diego, USA
Simon Sherwood, Senior Lecturer in Psychology, University of Greenwich, UK
Christine Simmonds-Moore, Assistant Professor of Psychology, University of West Georgia, USA
Mário Simões, Professor in Psychiatry, University of Lisbon, Portugal
Huston Smith, Prof. of Philosophy Emeritus, Syracuse University, USA
Jerry Solfin, Associate Professor in Indic Studies, University of Massachusetts, Dartmouth, USA
Lance Storm, Visiting Research Fellow, University of Adelaide, Australia
Jeffrey Allan Sugar, Assistant Professor of Clinical Psychiatry, University of Southern California, Los Angeles, USA
Neil Theise, Professor of Pathology and Medicine, The Icahn School of Medicine at Mount Sinai, USA
Jim Tucker, Bonner-Lowry Associate Professor of Psychiatry and Neurobehavioral Sciences, University of Virginia, USA
Yulia Ustinova, Associate Professor in History, Ben-Gurion University of the Negev, Israel
Walter von Lucadou, Senior Lecturer at the Furtwangen Technical University, Germany
Maurits van den Noort, Senior Researcher, Free University of Brussels, Belgium
David Vernon, Senior Lecturer in Psychology, Canterbury Christ Church University, UK
Harald Walach, Professor, Europa Universität Viadrina, Germany
Helmut Wautischer, Senior Lecturer in Philosophy, Sonoma State University, USA
N.C. Wickramasinghe, Professor in Astrobiology, Cardiff University, UK
Fred Alan Wolf, formerly Professor in physics at San Diego State University, the Universities of Paris, London, and the Hebrew University of Jerusalem
Robin Wooffitt, Professor of Sociology, University of York, UK
Wellington Zangari, Professor in Psychology, University of Sao Paulo, Brazil
Aldo Zucco, Professor, Dipartimento di Psicologia Generale, Università di Padova, Italy

Keywords: Consciousness, scientific method, Parapsychology, PSI, psychical research

Citation: Cardeña E (2014). A CALL FOR AN OPEN, INFORMED STUDY OF ALL ASPECTS OF CONSCIOUSNESS. *Front. Hum. Neurosci.* 8:17. doi: 10.3389/fnhum.2014.00017

Edited by: Christian Agrillo, University of Padova, Italy

Reviewed by: Christian Agrillo, University of Padova, Italy; Imants Baruss, King's University College at The University of Western Ontario, Canada

Copyright: © 2014 Cardena.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) or licensor are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

*Correspondence: Prof. Etzel Cardena, Lund University, Lund, Sweden,
etzel.cardena@psy.lu.se

