

## **Professor Richard L. Amoroso**

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### **Curriculum Vitae**

Theoretical Physicist and Gospel Scientist working/publishing/lecturing in all fields of Natural Science, Philosophy and Theology especially pertaining to unsolved problems relevant to the imminent paradigm shift to the 3<sup>rd</sup> regime of reality (Classical – Quantum – Unified Field).

Date of Birth: 24 April, 1946  
Place of Birth: Medford, Middlesex, Massachusetts, USA  
B.S. University of Massachusetts - Amherst, Psychology (1972)  
O.M.D. New England School of Acupuncture (1980)  
Ph.D. INU - Oakland, CA - Cosmology and Philosophy of Mind (1992)  
M.A. JFK University - Orinda, Consciousness Studies (1995)

### **Other Colleges Attended**

1972 Stanford University, Psychology  
1979-1980 New England School of Acupuncture, Chinese Acupuncture,  
Moxibustion, Electro and Laser Acupuncture  
1980-1981 Harvard University, Physics, Human Physiology  
1991-1992 San Francisco State University, Psychology, Astrophysics, Creative writing  
1989-1993 Peralta College, Mandarin Chinese, Computer Science, Desktop Publishing  
1994 U.C. Berkeley, Philosophy of Mind (John Searle)

### **Summary of Positions Held**

1972- 1976 Amoroso Institute of Psychology, Palo Alto, Director  
1974 Stanford Linear Particle Accelerator, Palo Alto, SLAC research technician  
1979- 1981 Harvard Smithsonian Astrophysical Observatory, Cambridge, MA Computation  
Facility manager  
1987- present Museum of Robotics, Chairman Board of Directors  
1991- 1992 Peralta College, Oakland, CA, Instructional Assistant, Computer Science  
1993- present Noetic Advanced Studies Institute, Orinda, CA, Founding Director  
1993- 1995 Electricar Corporation, Oakland, CFO  
1994- 1996 International Noetic University, Professor  
1997- present The Noetic Journal, Orinda, Founding Executive Editor  
1997- present Cerebroscopic Systems, Inc., Berkeley, CFO  
1997- present Noetic Medal of Consciousness and Brain Research, Search Committee  
2000 Chairman: 3<sup>rd</sup> Vigier International Symposium, UC Berkeley.  
2003 Cochairman 4<sup>th</sup> Vigier International Symposium, Paris VI, France.  
2002- 2004 Bioscan International, Board of Directors  
2005 Chairman, International Year of Physics, CASYS05, (5<sup>th</sup> Vigier) Liege, Belgium

2007 Chairman 6<sup>th</sup> Vigier Intl Physics Symposium, CASYS07, Liege, Belgium  
2008 - present Cochairman 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> Vigier Symposia, London, UK; London, UK;  
Baltimore, USA, PortoNovo, It; Liege, Be

## Selected Professional Publications

### Recent Books

- [1] Amoroso, R.L., Antunes, R., Coelho, C., Farias, M., Leite, A., & Soares, P. (eds.) (2000) *Science and the Primacy of Consciousness: Intimation of a 21<sup>st</sup> Century Revolution*, Readings in Consciousness Studies vol 1, Orinda: The Noetic Press, ISBN 0-9678687-0-8
- [2] Osoroma, Drahcir, S. (pseudonym) (2000) *The Scientific Origins of Sexual Preference*, Orinda: The Noetic Press, ISBN 0-9678687-0-X.
- [3] Amoroso, R.L., Hunter, G., Kafatos, M., Vigier, J-P. (eds.) (2002) *Gravitation & Cosmology: From the Hubble Radius to the Planck Scale*, Dordrecht: Kluwer Academic Publishers.
- [4] Amoroso, R.L. (ed) (2010) *The Complementarity of Mind and Body: Realizing The Dream of Descartes, Einstein and Eccles*, New York: Nova Science Publishers.
- [5] Amoroso, R.L., Lehnert, B. & Vigier, J-P. (eds.) (2005) *The Search For Unity In Physics: Extending the Standard Model*, ISSN 1528-3739, Orinda: The Noetic Press
- [6] Amoroso, R.L. (2004) *Ce Este Constiinta? Trepte Intru Cosmologia Mintii*, (Editor), Nicolae Bulz; (Trans.) Iosif Adrian, Nicolae Bulz, Alexandru Giuculescu, Calin Hilohi, Corneliu Milos & Laura Pana, Bucharesti: Editura Academiei Romane.
- [7] Amoroso, R., and Di Biase, F. (eds.) (2004) *A Revolução da Consciência. Novas Descobertas sobre a Mente no Século XXI. Editora Vozes*, Petrópolis, Rio de Janeiro, Brasil. (Science and the Primacy of Consciousness, Portuguese Translation, Rio di Janeiro: Editura Vozes).
- [8] Amoroso, R., and Di Biase, F. (eds.) (2005), 2<sup>nd</sup> edition, *Consciência. Novas Descobertas sobre a Mente no Século XXI. Editora Vozes*, Petrópolis, Rio de Janeiro, Brasil. (Science and the Primacy of Consciousness, Portuguese Translation, Rio di Janeiro: Editura Vozes).
- [9] R.L.Amoroso & E.A. Rauscher, *Demise of the Bigbang: What the Universe is Really Like?* (in preparation)
- [10] R.L. Amoroso & J.R.S. Amoroso (2006), *Rendezvous at the Temple of Love*, Orinda: Noetic Press.
- [11] R.L. Amoroso, F. DiBiase & M. S. Roca (2009) *Quantum Dialogues*, Rio di Janeiro: Editura Vozes, (in Portugese).
- [12] R.L. Amoroso, *Lucis Sapiens: The Final Evolutionary Step for Mankind*. (in preparation)
- [13] R.L. Amoroso, B. Lehnert & J-P Vigier (2007) *Beyond the Standard Model: Searching for Unity in Physics*, ISBN 0-9678687-3-4, Oakland: The Noetic Press.
- [14] R.L. Amoroso & E. A. Rauscher (2009) *The Holographic Anthropic Multiverse: Formalizing the Complex Geometry of Ultimate Reality*, Singapore: World Scientific.
- [15] R.L. Amoroso, I. Dienes & Cs. Varga (eds.) (2008) *Unified Theories: Proceedings of the 1st Metatheory Conference*, Budapest, Hungary, 15-18 November, 2006, Oakland: The Noetic Press.
- [16] R.L. Amoroso, I. Dienes & Cs. Varga (eds.) (2009) *Unified Theories: Proceedings of the 2nd Metatheory Conference*, Budapest, Hungary, 16-19 May, 2008, Oakland: The Noetic Press, in press.
- [17] R.L. Amoroso, *The Geometry, Topology and Structural-Phenomenology of the Soul: The Physical Basis for Noetic Medicine*, in progress.
- [18] R.L. Amoroso & F. Seleri (eds.) (2011) *To B<sup>(3)</sup> or not to B<sup>(3)</sup>: Validation of Extended Electromagnetic Theory*, in Preparation
- [19] R.L. Amoroso (2009) *Whydayawannarobotfor? Found-Object - Recycled Robot Maker*, Oakland, Noetic Press.
- [20] R.L. Amoroso, *The Enoch Transmutation (Science Fiction novel)* in preparation

- [21] R.L. Amoroso (2009) Flipbots: The Robot Flipbook, Oakland, Noetic Press.
- [22] R.L. Amoroso, P. Rowlands & S. Jeffers (eds.) (2011) Search for Fundamental Theory: Proceedings of the VIIth Vigier Symposium, Imperial College, London 2010, AIP Conference Proceedings No. 1316.
- [23] R.L. Amoroso, F. DiBiase & K.H. Pribram, *Fronteiras da Consciencia: Homenagem ao Centenario de Sir John Eccles Premio Nobel de Medicina* (2011) (in Portuguese) Curitiba: Editora. CRV
- [24] R.L. Amoroso, L.H. Kauffman, P. Rowlands (eds.) (2013) The Physics of Reality: Space, Time, Matter, Cosmos, 8th Symposium in Honor of Jean-Pierre Vigier, Hackensack: World Scientific Pubs.
- [25] R.L. Amoroso, Discovery of the Mind: Consciousness Through the Looking Glass, in preparation.
- [26] R.L. Amoroso, L.H. Kauffman, P. Rowlands (eds.) (2015) Unified Field Mechanics: Natural Science Beyond the Veil of Spacetime, 9<sup>th</sup> Symposium in Honor of Jean-Pierre Vigier, Hackensack: World Scientific Pubs.
- [27] R.L. Amoroso, G. Albertini, L.H. Kauffman, P. Rowlands (eds.) (2017) Unified Field Mechanics II: Preliminary Formulations and Empirical Tests, 10<sup>th</sup> Symposium in Honor of Jean-Pierre Vigier, Hackensack: World Scientific Pubs.
- [28] R.L. Amoroso (2017) Universal Quantum Computing: Supervening Decoherence - Surmounting Uncertainty; Singapore: World Scientific Pubs.
- [29] R.L. Amoroso, L.H. Kauffman, P. Rowlands (eds.) (2020) The Vigier Centenary: “*Le Heretique du Physique*”, lives on, Singapore: World Scientific Pubs.
- [30] R.L. Amoroso (2019) The Fundaments of Oncogenesis, in review.
- [31] R.L. Amoroso (2019) Introduction to Unified Field Mechanics, Proposal under review.
- [32] R.L. Amoroso, D. Dubois, L.H. Kauffman, P. Rowlands (eds.) (2018) 11<sup>th</sup> Symposium in Honor of Noted Mathematical Physicist Jean-Pierre Vigier.
- [33] R.L. Amoroso, S. Karam, L.H. Kauffman, P. Rowlands (eds.) (2018) Fundamental Physics at the Vigier Centenary, 12<sup>th</sup> Symposium in Honor of Noted Mathematical Physicist Jean-Pierre Vigier

### **Academic Papers/ Book Chapters**

- [1] Amoroso, R.L. and Martin, B. (1995) Modeling the Heisenberg matrix: Quantum coherence and thought at the holoscape manifold and deeper complementarity. In J. King & K.H. Pribram, Eds. Scale in Conscious Experience: Is the Brain too Important to be Left to Biologists to Study? Mahwah: Lawrence Erlbaum.
- [2] Amoroso, R.L. (1995) The extracellular containment of natural intelligence: A new direction for strong AI. Informatica 19
- [3] Amoroso, R.L. (1995) How to Build a Telecerebroscope. The Noetic Press.
- [4] Amoroso, R.L. (1996) The production of Fröhlich and Bose-Einstein coherent states in in vitro paracrystalline oligomers using phase control laser interferometry, Bioelectrochemistry & Bioenergetics 41.
- [5] Amoroso, R.L. Engineering a conscious computer, In T. Toffoli, and M. Biafore Eds., Physcomp96 (1996) N.E. Complex Systems Inst., Cambridge.
- [6] Amoroso, R.L., (1996), Engineering a Conscious Computer, InterJournal Complex Systems, 17, Cambridge: New England Complex Systems Institute.
- [7] Amoroso, R.L. (1996) Collective modes of ordered water as a synchronization backbone for quantum neuromolecular computation and consciousness. The Noetic Press.
- [8] Amoroso, R.L. (1997) Consciousness: A radical definition, The Noetic Journal 1:1, pp. 19-27.
- [9] Amoroso, R.L. (1997) Commentary on Stapp: Call for a Model of Deep Ontology, The Noetic Journal 1:1, pp. 97-99.
- [10] Amoroso, R.L. (1997) A brief introduction to noetic field theory. Proc. Scientific Basis of Consciousness, ECPD, Belgrade.
- [11] Amoroso, R.L. (1997) The theoretical foundations for engineering a conscious quantum computer. In M.Gams, M. Paprzycki & X.Wu (eds.) Mind $\leftrightarrow$ Computer, IOS Press: Amsterdam.

- [12] Amoroso, R.L., Kafatos, M. and Ecmimovic, P. (1998) The origins of cosmological redshift in spin exchange between Planck scale vacuum compactification and nonzero rest mass photon anisotropy, in G. Hunter and S. Jeffers eds., *Causality and Locality in Modern Physics*, Kluwer Academic, Dordrecht.
- [13] Ecmimovic, P., Kafatos, M. and Amoroso, R.L. (1998) The Vigier Pinch, in G. Hunter and S. Jeffers eds., *Causality and Locality in Modern Physics*, Kluwer Academic, Dordrecht.
- [14] Amoroso, R.L. (1998) The origin of cosmic microwave background radiation in the intrinsic fluctuation of vacuum compactification cavity electrodynamics, submitted
- [15] Amoroso, R.L. (1999) An introduction to noetic field theory: The quantization of mind, *The Noetic Journal* 2:1, pp. 28-37.
- [16] Amoroso, R.L. (1999) A Theoretical Alzheimer's Etiology Predicting Psychogenic Initiation, *The Noetic Journal* 2:2, pp. 234-241.
- Amoroso, R.L. (1999) A Comparative Study of 10(11) D Superstring Theory And The 10(11) Sefirot in the Tree of Life Metaphor of the Hebrew Kabbalah, *The Noetic Journal*, 2:3, pp. 333-337.
- [17] Amoroso, R.L. (1999) Cultural Manifestations of the Anthropopathy of Human Consciousness, Society for the Anthropology of Consciousness, Annual meeting, UC Berkeley.
- [18] Amoroso, R.L. (2000) Can a Conscious Universe Obviate Philosophical Naturalism & Vanguard Physical Teleology? Polyani Conference on Naturalism; Baylor, University, Waco, Tx April 12-15.
- [19] Amoroso, R.L. (2000) The parameters of temporal correspondence in a continuous state conscious universe, In R. Bucheri & M. Saniga Eds. *Studies in the Structure of Time: From Physics to Psycho(patho)logy*, Kluwer Academic, Dordrecht.
- [20] Kafatos, M., Roy, S. & Amoroso, R.L. (2000) Scaling in Cosmology & the Arrow of Time, In R. Bucheri & M. Saniga Eds. *Studies in the Structure of Time: From Physics to Psycho(patho)logy*, Kluwer Academic, Dordrecht.
- [21] Amoroso, R.L. (2000) The ontology of soul and nature of free agency within the cosmology of a continuous state conscious universe, In H. Wautischer Ed. *Ontology of Consciousness: A Modern Synthesis*, Cambridge: Harvard University Press, In press.
- [22] Amoroso, R.L. (2000) The Ontological Origins of Sexual Preference, *The Noetic Journal*, 2:4, pp. 401-423.
- [23] Amoroso, R.L. (2000) Cerebroscopic Transduction and the advent of Sensory Bypass Technology, *The Noetic Journal*, 3:1, pp. 49-60.
- [24] Amoroso, R.L. (2000) Philosophical Tension: A Structural-Phenomenological Approach to Physicalization in Terms of the Continuous State Conscious Universe, *Noesis* vol. XXV - Proceedings of the Romanian Academy, pp.93-107.
- [25] Amoroso, R.L. (2002) No Matter Never Mind, review of K. Yasue, M. Jibu & T. Della Scenta (eds.) John Benjamins book, *Noetic Journal*, 3:4, pp. 382-84.
- [26] Struppa, D.C., Kafatos, M., Roy, S., Kato, G. & Amoroso, R.L. (2003) Category Theory as the Language of Consciousness, *Noetic Journal*, 3:3, pp. 271-281.
- [27] Amoroso, R.L. (2002) The Cosmology of a Continuous State Universe, in Amoroso, R.L., Hunter, G., Kafatos, M., Vigier, J-P. (Eds.) *Gravitation & Cosmology: From the Hubble Radius to the Planck Scale*, 2002, Dordrecht: Kluwer Academic Publishers.
- [28] Amoroso, R.L. & Vigier, J-P (2002) Comparison of Near and Far Field Double-Slit Interferometry for dispersion in Propagation of the Photon Wave-Packet, in Amoroso, R.L., Hunter, G., Kafatos, M., Vigier, J-P. (eds.) *Gravitation & Cosmology: From the Hubble Radius to the Planck Scale*, Dordrecht: Kluwer Academic Publishers.
- [29] Vigier, J-P & Amoroso, R.L. (2002) The origin of cosmological redshift and CMBR as absorption/emission equilibrium in cavity-QED blackbody dynamics of the Dirac vacuum, In Amoroso, R.L., Hunter, G., Kafatos, M., Vigier, J-P. (eds.) *Gravitation & Cosmology: From the Hubble Radius to the Planck Scale*, Dordrecht: Kluwer Academic Publishers.
- [30] Amoroso, R.L. (2002) The Physical Basis of Consciousness: A Fundamental Formalism, Part 1 *Noesis*, XXVI, Romanian Academy.
- [31] Amoroso, R.L. (2002) The Ontological Origins of Sexual Preference, *Noetic J*, 2:4, pp. 410-421.

- [32] Vigier, J-P, & Amoroso, R.L. (2002) Can one unify gravity and electromagnetic fields?, in Amoroso, R.L., Hunter, G., Kafatos, M., Vigier, J-P. (Eds.) *Gravitation & Cosmology: From the Hubble Radius to the Planck Scale* (2002) Dordrecht: Kluwer Academic Publishers.
- [33] Amoroso, R.L. (2002) Constiinta, o definitie radicala: dualismul substantei rezolva problema dificulta (trad. de A. Botez si O. Popescu) *Filosofia Constiintei Si Stiintele Cognitive*, A. Botez si B.M. Popescu, Bucharesti: Cartea Romaneasca.
- [34] Amoroso, R.L. & Martin, B. (2002) Consciousness: A thousand points of light. Self-organized emergence of consciousness from the noumenon of the conscious universe, *Noetic Journal*, 3:4, pp. 289-311.
- [35] Amoroso, R.L. (2002) (Osoroma, D. pseudonym), *Brave New Mind*, a review of Peter Dodwell's book, *Noetic Journal*, 3:3, pp.282-284.
- [36] Amoroso, R.L. (2003) *The Physical Cosmology of Time: a Topological Field Theory of Origins in Higher Dimensional Geometry*, in, R. Buccheri, M. Saniga & M. Stuckey, (eds.) *Proceedings of the NATO ARW*, Dordrecht: Kluwer Academic.
- [37] Amoroso, R.L., Amoroso, P.J., Hunter, G. & Rauscher, E.A. (2003) *The Primary Mechanism Initiating Protein Conformation in Prion Propagation*, Submitted.
- [38] Amoroso, R.L. (2003) *Integrating Science and Theology: Development of An Empirical Metaphysics*, IUAES conference, Florence, Italy. To be published.
- [39] Amoroso, R.L. (2003) *Awareness: Physical Cosmology Of The Fundamental Least Unit*, *Noetic Journal* 4:1; 7-23.
- [40] Amoroso, R.L. (2003) *The Fundamental Limit and Origin of Biological Systems*, *Noetic Journal* 4:1; 24-32.
- [41] Amoroso, R.L. (2003) *Fe, Fi, Fo Folium: A Discourse On Descartes Mathematical Curiosity* *Noetic Journal* 4:2, pp. 176-82
- [42] Amoroso, R.L. (2003) (Osoroma, D.S. Pseudonym), *The Web And The Cloth*, review of Daniel W. Miller's BTR book, *Noetic Journal* 4:2, pp. 185-187.
- [43] Amoroso, R.L. (2003) *The Search for Mind* by Sean O. Nuallain, *Noetic Journal*, 4:1 pp.88-90
- [44] Amoroso, R.L. (2003) Editorial Commentary on the 2003 Centenary of Sir John Eccles, *Noetic Journal* 4:1, pp. 1-2.
- [45] Amoroso, R.L. (2003) *The Physical Basis and Extracellular Containment of Qualia: Dissolution of the 1<sup>st</sup> Person 3<sup>rd</sup> Person Barrier*, 4:3;194-206, *The Noetic Journal*.
- [46] Amoroso, R. L. (2003) *Being Human: The Search For Order* by Sean O. Nuallain, *Noetic Journal*, 4:3 pp. 298-300.
- [47] Amoroso, R.L. (2003) *Introduction to the Cosmology of a Continuous State Conscious Universe*, *Proceedings Romanian Acad*, New York Branch.
- [48] Amoroso, R.L. (2004) *Consciousness: A thousand points of light. Self-organized emergence of complexity from the conscious universe*. In, R.L. Amoroso, and K.H. Pribram, *The Complementarity of Mind and Body: Essays in Honor of Nobel Laureate Sir John Eccles' Centennial Anniversary*, In press.
- [49] Amoroso, R.L. & Vigier, J-P (2004) *Toward the unification of gravity and electromagnetism*, in *Relativity, Gravitation, Cosmology*, V. V. Dvoeglazov and A. A. Espinoza Garrido, (eds.) New York: Nova Science Publishers , pp. 61- 76.
- [50] Amoroso, R.L. (2004) *A paradigm for continuous state cosmology*, in R.L. Amoroso, B. Lehnert & J-P Vigier (eds.) *The Search For Unity In Physics*, Dordrecht: Kluwer Academic Pub.
- [51] Amoroso, R.L. (2004) *On the possibility of relativistic shock-wave effects in cosmological observations*, in R.L. Amoroso, B. Lehnert & J-P Vigier (eds.) *The Search For Unity In Physics*, Dordrecht: Kluwer Academic Pub.
- [52] Vigier, J-P & Amoroso, R.L. (2004) *The electromagnetic integration of the strong force*, in R.L. Amoroso, B. Lehnert & J-P Vigier (eds.) *The Search For Unity In Physics*, Dordrecht: Kluwer Academic.
- [53] Amoroso, R. L., & Amoroso, P. J. (2004) *The fundamental limit and origin of complexity in self-organized biological systems; A new model for life*, in D.M. Dubois (ed.) *Proceedings of CASYS*, >03,

Sixth International Conference on Computing Anticipatory Systems, Liege, Belgium, August 11-16, 2003, New York: AIP Proceedings.

- [54] Amoroso, R.L., & Amoroso, P.J. (2005) Is it time to redefine Maturana's basis for self-organized autopoietic systems?, submitted to BioSystems.
- [55] Amoroso, R.L. (2004) Shifting the medical paradigm, Philadelphia: Temple University, Center for Frontier Studies, in press.
- [56] Amoroso, R.L., Dubois, D.M. & Nibart, G. (2005) Is it possible that gravitation is not quantized?, submitted to General Relativity and Gravitation.
- [57] Amoroso, R.L. (2005) Is it possible to institute *StarTrek Medicine* in this century? In J. Mancilla & F. DiBiase (eds), *Fronteiras da Consciência*, Rio de Janeiro: Brazil.
- [58] Amoroso, R.L. (2004) Experimentally induced conformation in the prion protein by multi-level chaotic nuclear quadrupole resonance, submitted.
- [59] Nickisch, L.J., Franca, H., Haisch, B., Old, T. & Amoroso, R.L. (2004) Experimental Measurement of Enhanced ZPF-Induced Voltage Fluctuations, In Press.
- [60] Amoroso, R.L. (2004) The evolution of qualia as a cybernetic system, Vienna, Proceedings of Cybernetic and systems theory, to be published.
- [61] Amoroso, R.L. (2004) Communication to the Romanian Academy on the occasion of Academician M. Draganescu's 75<sup>th</sup> Birthday, D. Tufis, & G. Tecuci (eds.). "Mihai Draganescu in medias res" (the symposium MD75) Bucharest: Editura Academiei Romane.
- [62] Amoroso, R.L. (2004) The secret life of cats: Report of a case study, *Noetic Journal*, 5:1, pp. 1-12.
- [63] Amoroso, R.L. (2004) The physics of consciousness, Review of E.H. Walker's Persius book, *Noetic Journal*, vol. 4 No.4, pp. 379-382.
- [64] Amoroso, R.L., & J-P Vigier (2004) On the Integration of gravity and electromagnetism, in V. Dvoeglazov (ed.) *Relativity, Gravitation, Cosmology*, New York: Nova Science.
- [65] Rauscher, E.A. & Amoroso, R.L. (2005) The Physical Implications Of Multidimensional Geometries And Measurement, in D. Dubois (ed.) *CASYS'05*.
- [66] Amoroso, R.L., Amoroso, P.J. (2006) Elucidating The Trigger Of Alzheimer's Disease: A Complex Anticipatory Systems Approach, in D. Dubois (ed.), *Proceedings of CASYS05*, Liege, Belgium.
- [67] Amoroso, R.L., Rauscher, E.A., Nibart Gilles & Hunter, Geoffrey, Giandinoto, S. (2008) Universal Quantum Computing: Anticipatory: Parameters Predicting Bulk Implementation, in D. Dubois (ed.), *Proceedings of CASYS07*, Liege, Belgium.
- [68] Amoroso, R.L. (2006) SETI-2: Why SETI search protocols need to be reevaluated, *Noetic Journal*, 7:1.
- [69] Amoroso, R.L. (2006) The Physical Basis of Spirituality: Common Ground for Dialogue, in M. Stavinchi, (ed.) *Science and Orthodoxy*, Bucharest.
- [70] Amoroso, R.L., & Rauscher, E.A. (2006) Emergence of generalized F-theory 2-branes from parameters of the incursive oscillator, in D. Dubois (ed.), *Proceedings of CASYS07*, Liege, Belgium.
- [71] Amoroso, R.L., Rauscher, E.A. (2006) The physical basis of qualia; A mind's eye view, *ISSSEEM, Subtle Energies & Medicine*, in press.
- [72] Amoroso, R.L., Rauscher, E.A. (2006) Beyond mechanism: A new model for the action principle driving self-organization in living systems, *ISSSEEM, Subtle Energies & Medicine*, in press.
- [73] Amoroso, R.L. (2006) Brain damage in Alzheimer's disease: Elucidating the noetic trigger, in J. Mancillo & F. DiBiase (eds.) *Proceedings International do Cerebro*, Rio de Janeiro, in press.
- [74] Amoroso, R.L. (2006) A fundamental basis for paradigm shift in medicine, in J. Mancillo & F. DiBiase (eds.) *Proceedings Fronteiras da Consciência*, Rio de Janeiro, in press.
- [75] Amoroso, R.L. (2006) The physical basis of consciousness – implications for medicine and psychology, In J. Mancilla & F. DiBiase (eds), *Fronteiras da Consciência*, Rio de Janeiro: Brazil.
- [76] Amoroso, R.L. (2006) What is thought? What is mind? What is life?, in J. Mancillo & F. DiBiase (eds.), *Fronteiras da Consciência*, Rio de Janeiro: Brazil.
- [77] Amoroso, R.L. & Rauscher, E.A. (2006) The Physical Implications of Multidimensional Geometries and Measurement, *International J of Computing Anticipatory Systems*, ISSN 1373-5411, Edited by

Daniel M. Dubois, Published by CHAOS, Liege, Belgium.

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[79] E.A. Rauscher, R.L. Amoroso & N. Haraein (2006) Incursive Conditions for Collective Coherent States in Complex Spacetime and the Nonlinear Schrödinger Equation, in preparation

[80] N. Haraein, E.A. Rauscher & R.L. Amoroso (2006) Hamiltonian Approach to Standing Waves in the Vicinity of Reissner-Nordström Black Holes in Terms of the Dubois Harmonic Oscillator, in preparation.

[81] R.L. Amoroso & D. M. Dubois (2006) Emergence of Generalized F-Theory 2-Branes From Parameters Of The Dubois Incursive Oscillator, in CASYS07 symposium

[82] R.L. Amoroso, G. Nibart, E.A. Rauscher, P. Zizzi & G. Hunter (2008) Universal Quantum Computing: Anticipatory Parameters Predicting Bulk Implementation, Part I – Philosophical Foundations, Proceedings of CASYS07, D. Dubois (ed.), Liege, Belgium.

[83] Amoroso, R.L. & Rauscher, E.A. (2007) Derivation of the string tension formalism from inherent parameters of an Anthropic Holographic Multiverse, Unified Theories: Proceedings of the 2nd Annual Metatheory Conference, Budapest, Hungary, 15-18 November, 2006, R.L. Amoroso, I. Dienes & C. Varga (eds.), Oakland: The Noetic Press.

[84] Amoroso, R.L. & Rauscher, E.A. (2007) Emergence of a “Super Quantum Potential” acting as the guidance principle driving complex self-organized living systems in a Holographic Conscious Multiverse, in C. Varga, I. Dienes & R.L. Amoroso (eds.), Proceedings of the 2nd Annual Metatheory Workshop on Unified Theories, Budapest, Hungary, 15-18 November, 2006, Special Issue of the Noetic Journal, Vol. 7, Nos. 1-4.

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[92] Amoroso, R.L. (2007) Global Warming: Interpretation in terms of the Earth’s geomagnetic field reversal, The Noetic Journal, 7:1. pp.

[93] Amoroso, R.L. & Rauscher, E.A. (2007) The Physical Origin of Subtle Energies: The Principle Of

Self-Organization Driving Living Systems, ISSEEM Journal, in press.

[94] Francisco Di Biase & Richard L. Amoroso (2007) Holoinformational Consciousness: An Extension of Interactive Dualism with Anticipatory Parameters, in D. Dubois (ed.) Proceedings of CASYS07, Liege, Belgium.

[95] Amoroso, R.L. & Kafatos, M. (2000) Cerebroscopic Transduction: A Developmental Bioelectronic Sensory Bypass Technology, Noetic Journal, 3:1, 119.

[96] Amoroso, R.L. (2000) Derivation of the fundamental equation of consciousness – Part I, Noetic Journal, 3:1, 91-99.

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[99] Amoroso, R.L. (2002) *Constiinta, o definitie radicala: dualismul substantiei rezolva problema dificila* - in Romanian

[100] Amoroso, R.L. (2004) *Constienta: Cosmologie Fizica Si Unitate Elementaria Fundameentala* - in Romanian

[101] Amoroso, R.L. (1999) A theoretical Alzheimer's etiology predicting psychogenic initiation, Noetic Journal, 2:2, 234-241,

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- [116] Amoroso, R.L. An empirical method for surmounting the uncertainty principle, in preparation.
- [117] Amoroso, R.L. Parameters of Quantum Computer Music for Infusion of the Qualia of Emotion, in preparation.
- [118] Amoroso, R.L. The Immanent Reversal of the Earth's Geometric Field and the Relation to Global Warming, in preparation.
- [119] Amoroso, R.L. Transcendence as a Spiritual Basis for Influenza Immunity, in preparation.
- [120] Amoroso, R.L & Kristen Kunkel, *The Fall of Mankind: A Cosmological Analysis*, submitted.
- [121] R.L. Amoroso, (2010) *The Ultimate Evolution of String Theory*, in D. Osoroma (ed.) in press.
- [122] Amoroso, R.L. (2011) Simple vacuum resonance hierarchy model for surmounting quantum uncertainty, in R.L. Amoroso, P. Rowlands & S. Jeffers (eds.) *Search for Fundamental Theory: Proceedings of the VIIth Intl. Symposium in Honor of J-P Vigiér*, London, Imperial College, AIP Proceedings.
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- [131] Richard L. Amoroso (2015) Toward a pragmatic science of mind, *Quantum Biosystems*, Vol 6, No. 1, pp. 1-7
- [132] Richard L. Amoroso (2015) Gödelizing Fine Structure, *Proceedings of ANPA*
- [133] Amoroso, R.L. (2014) *The Physical Teleology of Syntropic Interaction: An Experimentally*

- Testable Anthropic Cosmology, in Antonella Vannini, Richard Blasband, Dominique Surel Ulisse Di Corpo (eds.) Proceedings of 1st Intl. Syntropy conference, Viterbo, Italy, Amazon Kindle.
- [134] Drahcir S. Osoroma (2014) A Programmable Cellular Automata Polarized Dirac Vacuum
- [135] Richard L. Amoroso, Peter Rowlands & Louis H. Kauffman (2014) Exploring Novel Cyclic Extensions of Hamilton's Dual-Quaternion Algebra
- [136] Richard L. Amoroso (2014) Geometroynamics: A Complementarity of Newton's and Einstein's Gravity
- [137] Richard L. Amoroso & Jeremy Dunning-Davies (2014) A Scintilla of Unified Field Mechanics Revealed by a Conceptual Integration of New Fundamental Elements Associated with Wavepacket Dispersion
- [138] Richard L. Amoroso & Jean-Pierre Vigièr (2014) Evidencing 'Tight Bound States' in the Hydrogen Atom: Empirical Manipulation of Large-Scale XD in Violation of QED
- [139] Richard L. Amoroso, Louis H. Kauffman & Sal Giandinoto (2014) Universal Quantum Computing; 3rd Gen Prototyping Utilizing Relativistic 'Trivector' R-Qubit Modeling Surmounting Uncertainty
- [140] Jeremy Dunning-Davies & Richard L. Amoroso (2014) Some Thoughts on Redshift and Modern Cosmology
- [141] Richard L. Amoroso (2014) Time? In Amoroso, RL et al (eds) Unified Field Mechanics: Natural Science Beyond the Veil of Uncertainty, Singapore, World Scientific.
- [142] Richard L. Amoroso (2014) "Shut The Front Door!": Obviating the Challenge of Large-Scale Extra Dimensions and Psychophysical Bridging.
- [143] Richard L. Amoroso (2014) (2012) Physical Parameters of Mind-Body Interaction: Breaking the 1st Person 3rd Person Barrier, Richard L. Amoroso, J Nonlocality, 1:1.
- [144] Richard L. Amoroso (2014) Crossing the Psycho-Physical Bridge: Elucidating the objective character of experience, ISSN: 2153-8212 Journal of Consciousness Exploration and Research.
- [145] RL Amoroso, F Di Biase (2013) Empirical Protocols for Mediating Long-Range Coherence in Biological Systems, Vol. 4, Issue 9 pp. 955-976, ISSN: 2153-8212 Journal of Consciousness Exploration and Research
- [145] Richard L. Amoroso (2014) Constructing Sentient Androids, Xiamen, China
- [146] Richard L. Amoroso (2014) The Fundamentals of Mach's Principle: A Continuous-State 'Noon Flux' of the Unified Field
- [147] Richard L. Amoroso (2014) Sensory By-Pass Prosthesis, A new class of Medical technology.
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- [150] Amoroso, R.L (2017) What Is Love? The Physical Cosmology of Spiritual Union, in I. Fredriksson (ed.) The Mysteries of Consciousness, Essays on Spacetime, Evolution and Well-Being, Jefferson: McFarland, ISBN: 978-0-7864-7768-5.
- [151] Amoroso, R.L (2017) The Noetic Origin of Sexual Preference: An Integrative Cartesian, Jungian and Unified Field Mechanical Parameter Approach (Parts I-IV), J Consciousness Exploration and Research (JCER), Vol 8, No 7.
- [152] Amoroso, R.L (2017) Pragmatic Proof of God (Parts I.II) Scientific God Journal, Vol 8, No 7.
- [153] Amoroso, R.L (Trans. (2017) Georges Lemaître, Quaternions and Elliptical Space (*Quaternions et Espace Elliptique*) in R.L. Amoroso, G. Albertini, L.H. Kauffman, P. Rowlands (eds.) (2017) Unified Field Mechanics II: Preliminary Formulations and Empirical Tests, 10<sup>th</sup> Symposium in Honor of Jean-Pierre Vigièr, Hackensack: World Scientific Pubs.
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- [155] Amoroso, R.L (2017) Fundamentals of Ontological-Phase Topological Field Theory in R.L.

Amoroso, G. Albertini, L.H. Kauffman, P. Rowlands (eds.) (2017) Unified Field Mechanics II: Preliminary Formulations and Empirical Tests, 10th Symposium in Honor of Jean-Pierre Vigièr, Hackensack: World Scientific Pubs.

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### **Abstracts Published**

1. Amoroso, R.L. The Psychogenic Initiation of Alzheimer's disease, Proc. W. Psychological Assoc. (1992).
2. Amoroso, R.L., Consciousness: A radical Definition, Tucson I, J. of Consciousness Studies (1994).
3. Amoroso, R.L. Noetic Field Theory: The hard problem becomes easy. Tucson II, J of Consciousness Studies. (1996)
4. Amoroso, R.L. The conscious Computer: The extracellular containment of natural intelligence. Tucson II Journal of Consciousness Studies (1996).
5. Amoroso, R.L. (2000) Cerebroscopic Transduction: A Developmental Bioelectronic Sensory Bypass Tehnology, Biosensors: The Sixth World Congress on Biosensors - San Diego, Oxford: Elsevier.
6. Amoroso, R.L. (2000) The Noetic Nosology of Alzheimer,s Etiology, World Alzheimer's Congrerss, Washington D.C.
7. Amoroso, R.L. & Rauscher, E.A. (2004) Gravitational shock waves in QUASAR luminosity, American Physical Society Annual Meeting.
8. Amoroso, R.L. & Rauscher, E.A. (2004) A Cavity-QED model of the CMBR, American Physical Society Annual Meeting.

### **US Patents**

2009, 17 December - Laser Oscillated Vacuum Energy Resonator: A "transistor" of the Polarized Dirac vacuum, US Provisional patent

2009, 28 December - Coherent Control of Biological Systems by Programmable Cellular Automata Vacuum Energy Resonance, US Provisional patent

2010, 5 January - Cerebroscopic Systems: Device and Method For Transducing Qualia, US Provisional patent

2010, 5 January - De Broglie Matter-Wave Antiballistic Defense Shield Technologies, US Provisional patent

2011 – Vacuum Imaging Technologies, in process, US Provisional patent

2010, 15 December, US Utility Patent 12/928,592 Spacetime Energy Resonator: A Transistor of Complex Dirac Polarized Vacuum Topology;

<https://docs.google.com/viewer?url=patentimages.storage.googleapis.com/pdfs/US20120075682.pdf>

## Select Symposia Chairmanships and Attendance

- 1972 American Association for the Advancement of Science, Washington, DC USA
- 1992 Western Psychological Association. 30 April – 3 May, Portland State University. Portland, OR USA
- 1995 Scale in Conscious Experience: Is the Brain too Important to be Left to Specialists to Study? 3rd Appalachian Conference, Radford University, Radford Virginia.
- 1994 Toward a Science of Consciousness, Tucson I, University of Arizona, Tucson USA
- 1995 (Keynote speaker) Brain and Mind, Ljubljana, Slovenia
- 1996 Toward a Science of Consciousness, Tucson II, University of Arizona, Tucson USA
- 1996 4th Workshop on Physics and Computation, Physcomp96, 22-24 November, Boston University, USA
- 1997 Brain & Consciousness, 1st Annual ECPD International Symposium on Scientific Basis for Consciousness, 22-23 September, Belgrade, Yugoslavia.
- 1998 Science & the Primacy of Consciousness, 22-24 April, University of Lisbon, Lisbon Portugal.
- 1999 (Co-chairman) August, Fundamental Principles of Cosmology: The Foundations of a Conscious Universe, George Mason University, Fairfax, Virginia
- 1999 International Interdisciplinary Workshop on Studies in the Structure of Time: From Physics to Psycho(patho)logy, 23-24 November, Palermo, Italy.
- 1999 Quantum Mind I, Flagstaff, Arizona.
- 2000 (Chairman) Gravitation & Cosmology: From the Hubble Radius to the Planck Scale; 3rd International Symposium in Honor of Jean-Pierre Vigi er, UC Berkeley, Berkeley, CA USA
- 2000 Biosensors, 6th World Congress on Biosensors, 24-26 May, San Diego, USA
- 2001 Symposium on Fundamentals of Consciousness, Eastern Illinois University, Charleston, IL USA
- 2002 NATO Advanced Research Workshop (ARW) on the Nature of Time, Geometry, Physics and Perception, 21-24 May, *Tatranska Lomnika*, Slovak Republic.
- 2002 (Keynote speaker) *Filosofia Constiintei si Stiintele Cognitive*, Romanian Academy of Science, Bucharest, Romania.
- 2003 (Chairman) Beyond the Standard Model: Searching for Unity in Physics, 4th International Symposium in Honor of Jean-Pierre Vigi er, *Pierre et Marie Curie Universite*, Paris France.
- 2003 Computing Anticipatory Systems (CASYS03), 6th International Conference, 11-16 August, Liege, Belgium.
- 2004 (Keynote speaker) Symposium in Honor of 75 Birthday in honor of Academician Mihai Draganescu, 8 April, Bucharest, Romania
- 2004 Anticipative & Predictive Models in Systems Science, 16th International Conference on Systems Research, Informatics and Cybernetics, 29 July – August 4. Baden-Baden, Germany.
- 2005 Computing Anticipatory Systems (CASYS05), 7th International Conference, 8-13 August, Liege, Belgium.
- 2005 International Congress on Science and Orthodoxy, a Necessary Dialogue, 21-26 October, Bucharest, Romania.
- 2005 (Chairman) International Year of Physics, 5th International Symposium in Honor of Jean-Pierre Vigi er, in conjunction with CASYS05, Liege, Belgium.
- 2005 (Keynote speaker) *Fernandes Figueira Hospital of the Funda ao Oswaldo Cruz*, Rio de Janeiro.
- 2005 (Keynote speaker) Faculty of Medicine *Vassouras Medical College*, Rio de Janeiro
- 2005 (Keynote speaker) University Center of FERP, Transpersonal Psychology, Volta Redonda, Rio de Janeiro.
- 2006 (Co-chairman, Keynote speaker) Unified Theories: The 1st Metatheory Symposium, September 15-19, Budapest, Hungary
- 2007 Computing Anticipatory Systems (CASYS07), 8th International Conference, 6-11 August, Liege, Belgium.
- 2007 (Chairman) 6th International Symposium in Honor of Jean-Pierre Vigi er, in conjunction with CASYS07, 6-11 August, Liege, Belgium.

- 2008 (Cochairman, Keynote speaker) Unified Theories: The 2nd Metatheory Symposium, Budapest, Hungary.
- 2009 (Keynote Speaker) *Symposio International Saude Quantico*, 27-29 Novembro, Recife, Brazil
- 2010 (Keynote speaker) “Holographic Wormhole Drive”, Cutting Edge Energy & Advanced Propulsion Research Symposium, Society for Scientific Exploration, 10-12 June, Boulder, Colorado USA
- 2010 (Chairman) Search for Fundamental Theory; 7th International Symposium in Honor of Jean-Pierre Vigiér, 12-14 July, Imperial College London.
- 2011 (Keynote Speaker) *2nd Symposio International Saude Quantico*, 16-18 September, Recife, Brazil.
- 2011, 22-24 March, Beijing, China, Keynote Speaker, Session Chairman, BIT Life Sciences’ 3rd World Congress of Vaccine, “Elucidating the Trigger of Alzheimer’s Disease: A Complex Systems Approach”.
- 2012 Alternative Natural Philosophy Association (ANPA) 4-7 August, Cambridge, UK
- 2012 (Chairman) The Physics of Reality: Space, Time, Matter, Cosmos; 8th International Symposium in Honor of Jean-Pierre Vigiér, 14-18 August, BCS Headquarters, Covent Garden, London, UK.
- 2013 November 7-11 (Keynote Speaker) 4th Unified Theories Symposium, Budapest, Hungary, “Discovery of the Mind: Consciousness Through the Looking Glass”.
- 2014 (Chairman) Unified Field Mechanics: Natural Science Beyond the Veil of Spacetime, IXth International Symposium Honoring Mathematical Physicist Jean-Pierre Vigiér, 16-19 November, Morgan State Univ., Baltimore, MD USA.
- 2015 Conference on 60 Years of Yang-Mills Gauge Field Theories 2015 (Contributed talk) “Yang-Mills Kaluza-Klein Equivalence: An Empirical Path for Extending the Standard Model, 25-28 May, Nanjing Institute of Advanced Studies, Singapore.
- 2015 (Keynote) “Gödelizing Fine Structure” Alternative Natural Philosophy Association (ANPA) 10-14 August, St John’s Hall, 120 Redhill Road, Rowlands Castle, Hampshire, PO9 6DF, UK
- 2015 (Keynote Address) “Correlating Unified Field Mechanics and Noetic Medicine” 6 *Symposio International Sobre Consciencia*, December 4-5, Salvador, Othon Palace Hotel, Bahia, Brazil
- 2016 (Chairman) Unified Field Mechanics II: Preliminary Formulations, Empirical Tests, Xth International Symposium Honoring Mathematical Physicist Jean-Pierre Vigiér, 25-28 July, Portonovo, Italy
- 2017 Conference on Cosmology, Gravitational Waves and Particles, 6-10 February 2017, Nanjing Institute of Advanced Studies, Singapore.
- 2017 Short Courses on Topological Phase Transitions in Singapore, 30 May – 02 June, Nanjing Institute of Advanced Studies, Singapore
- 2017 Workshop on Topological Phase Transitions and New Developments, 5-8 June 2017, Nanjing Institute of Advanced Studies, Singapore.
- 2017 Alterman Summer School on Geometric Algebra and Kähler Calculus, July 31st- August 4th 2017, University of Architecture, Civil Engineering and Geodesy, Sophia, Bulgaria
- 2017 Physical Interpretations of Relativity Theory – 2017, 03-06 July 2017, PIRT, Bauman Moscow State Technical University, Moscow, Russia, Keynote paper: Ontological-Phase Topological Field Theory: Einstein/Newton Duality, selected for special edition IOP Conference Proceedings.
- 2017 Alternative Natural Philosophy Association, ANPA 39 Conference, Keynote address: Key to Everything: 4-Level Conformal Scale-Invariant Complex Riemann N-Sphere Least Cosmological Unit Manifold, August 13 to 17, 2017, St John’s Hall, Rowlands Castle, UK.

## Awards and Honors

- |                |  |
|----------------|--|
| 1965           | Massachusetts State Science Fair, 1st place, Construction & Operation of Linear Particle Accelerator |
| 1998           | Who’s Who in California  |
| 1998 - present | Who’s Who in Science and Engineering   |

1998 - 1999	Rosebridge Graduate School of Psychology Certificate of Contribution to Scientific Knowledge in Medical Science and Consciousness Studies
2001 - present	Who's Who in America
2002 - present	Who's Who in the World
2001 - Lifetime	Honorary Member of the Romanian Academy of Science
2003 - present	Who's Who in Medicine and Healthcare
2004 - present	Who's Who in American Education
2005	Fernandes Figueira Hospital of the Fundazro Oswaldo Cruz, Rio de Janeiro, Certificate of Honor for contributions to the future of medicine.
2005	Faculty of Medicine Vassouras Medical College, Rio de Janeiro, Certificate to honor contributions to noetic medicine
2005	University Center of FERP, Transpersonal Psychology, Volta Redonda, Rio de Janeiro, Award Certificate for contribution to Transpersonal Psychology
2005	1 <sup>st</sup> Place Winner, 1 <sup>st</sup> Annual Poetry Contest, Razzos Rocket Pizza, Oakland, CA
2010	Telesio-Galilei Gold Medal, Pecs University, Pecs, Hungary; see: <a href="http://www.youtube.com/user/ff1851">www.youtube.com/user/ff1851</a>
2017	Expert interview, PBS Documentary "The Mystery of Love": Actor Peter Coyote, Narrator, Directed by Bill Wade; <a href="http://www.scienceandmysteryoflove.com">www.scienceandmysteryoflove.com</a>

### **Memberships**

American Association for the Advancement of Science  
Romanian Academy of Science – Lifetime Honorary Member  
New York Academy of Science  
Centre for Hyperincursion and Anticipation in Ordered Systems (CHAOS)  
The Institute of Noetic Sciences  
Robotic Society of America  
The Church of Jesus Christ of Latter-day Saints, High Priest