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I. PUBLICATION RECORD

a. Scholarly Books

Foundations and Philosophy of Physics, Automatic Press VIP, edited collection, 250 pages. (Spring 2009)

Flower Power: the Thought and Philosophy of the Ancient Maya, under review at University of Oklahoma Press. Est. publication Fall 2009, 300 pages

Proceedings for the Minisymposium on the Nature of Time: Lessons from the Foundations of Relativity and Quantum Physics (Juan Ferret and Alexis de Saint-Ours, eds.), Est. publication by Zeta Books, Paris (2010).

b. Articles in Refereed Journals and Chapters in Scholarly Books

“Time at the Juncture of Relativity and Quantum Physics.” Article accepted to be part of the Proceedings for the Minisymposium on the Nature of Time: Lessons from the Foundations of Relativity and Quantum Physics (Juan Ferret and Alexis de Saint-Ours, eds.). Est. publication by Zeta Books, Paris (2010).

“The Physics of Anticipatory Systems” Future Studies (forthcoming Fall 2009) Paper presented at FuMee 1 – 1st Futures Meeting *Understanding Anticipatory Systems* at Rovereto (Italy), April 10-12, 2008. (A more technical version is under consideration for publication at the Journal *Axiomathes*.)

“The Metaphysics of Motion.” Chapter in *Philosophy and World of Warcraft*. Open Court Press, Fall 2009.

“Analysis of How Information and Computation in Physics Explains Cognitive Paradigms: from Full Cognition to Laplace Determinism to Statistical Determinism to Modern Approaches” Co-authored with Vladik Kreinovich and Roberto Araiza. Submitted for Special Issue of *Studia Logica: The Contributions of Logic to the Foundations of Physics* TRENDS in LOGIC VI (forthcoming 2010)

“The Power of Flowers: The Philosophy of Organism of the Maya” article accepted for publication in the Collected Essays Festschrift honoring John Haddox, forthcoming from Edwin Mellen Press, Julius Simon and Carlos Sanchez (eds.).

“What Energy is It? The meaning of Energy in Classical and Quantum Mechanics” Southwest Philosophical Studies (forthcoming).

“The Epistemic Role of the Maya Concept of *Kinh* and the Nahua Concept of *Xochitl*” Southwest Philosophy Journal (forthcoming) (also presented at the New Mexico-West Texas Philosophical Society Conference, April 2008).

“The Impact of the Energy-Time Indeterminacy Relation on the Ontology of Spacetime” under review as part of the volume *Ontologies of Spacetime III: Philosophy and Foundations of Physics*, Ed. Dennis Dieks, Elsevier Science. (Presented at the Third International Conference on the Ontology of Spacetime in Montreal, Canada, June 2008)

“Relational Quantum Mechanics” under review at the *Philosophy of Science Journal* (a shortened version accepted the Philosophy of Science Association Conference Meeting in Pittsburgh, November 6-8 2008)

“The Role of Anticipation in Physics” under review at the *Journal Axiomathes*.

“The Problem with Time” in progress.

“Reconsidering Time in Quantum Mechanics” in progress

“Rehabilitating the Time Energy Indeterminacy Relation (ETUR)” in progress.

“Equations without Equations” in progress (co-authored with Vladik Kreinovich and Roberto Ariza)

c. Other Writing

“El Poder del Mito” invited opinion article in *El Diario*, November, 2003 (local newspaper).

“El Señor de los Anillos” invited opinion article in *El Diario*, November, 2004 (local newspaper).

“Urban Forests” invited opinion article in *El Diario*, November, 2005 (local newspaper).

d. Book Reviews

Thompson and Hilde’s *The Agrarian Roots of Pragmatism*. Appeared in the Society for the Advancement of American Philosophy Newsletter, in June 2001.

II. PUBLIC SPEECHES

a. Invited Colloquium and Guest Lectures

1. "Religion and Science in Maya culture." By invitation as one of the keynote speakers (honorarium and expenses paid) to present the paper and be part of a panel discussion on Science and Religion at the Austin College Conference on Religion and Science, Austin College, April 20-22, 2007.
2. "Time at the Juncture of Relativity and Quantum Physics." By invitation, paper to be presented at the Minisymposium on the Nature of Time: Lessons from the Foundations of Relativity and Quantum Physics, Austin College, February 26-27, 2007.
3. "The Nature of Entities and Time." By invitation also, paper presented at the Minisymposium on the Nature of Time: Lessons from the Foundations of Relativity and Quantum Physics, Austin College, February 26-27, 2007.
4. "Quantum Mechanics of Interaction: A Variation on Relational Quantum Mechanics" By invitation, paper presented to the UTEP Physics Department Colloquium, February 16th, 2007.
5. "On the Meaning of the Principle of Indeterminacy in Quantum Mechanics." By invitation, paper presented at the UTEP Philosophy Club Meeting, November 27th, 2007.
6. Speaker at a Panel on Human Rights at the "Relativity of Human Rights Presentation" organized by Amnesty International and the UTEP Philosophy Club, October 24th, 2007.
7. "How to Survive and Lead in a New Culture: The Tribulations of Relocation" Workshop presented at the Leaders in Motion Conference, UTEP, November 2, 2007 and at the *Shape Your Life, Shape Your Future*, our 2007 Student Conference at UTEP, March 23, 2007.
8. "Cuestiones sobre la estructura del Universo" By invitation, paper presented at Ciencia de Frontera Program at the Universidad Autónoma de Ciudad Juarez, November 4th, 2006.
9. "Metaphysical Foundations of Quantum Physics and Relativity Theory." By invitation, paper presented at the Ecole Normale Supérieure, Paris, June 21st, 2006.
10. "Where have the particles gone?" By invitation, paper presented to the UTEP Physics Department Colloquium, February 8th, 2006
11. "To Be or Not to Be: The Life of Quantum Entities" By invitation, paper presented at New Mexico State University, Philosophy Department, November 13, 2002.

12. “Millikan-Ehrenhaft Debate over Electron Charge” By invitation, paper presented at Indiana University at Indianapolis, February 14, 2002.

13. “The Nature of the Electron” By invitation, paper presented at Townsend University, February 27, 2002.

b. Academic Conferences and Workshop Presentations

0. “Equations without Equations: Challenges to a More Adequate Formalization of Reasoning in Physics.” Co-authored with Vladik Kreinovich and Roberto Araiza. Paper to be presented at the BLAST Conference August 10 - 14, 2009, New Mexico State University, Las Cruces, NM. BLAST is a conference focusing on Boolean Algebras, Lattices, Algebraic Logic, Universal Algebra, Set Theory, Set-theoretic Topology and Point-free Topology.

1. “The Role and Meaning of the Energy-Time Relations.” Paper presented at the American Physics Society Meeting of the Texas and Four Corner Sections and of AAPT, and Zones 13 and 16 of SPS, and the Societies of Hispanic & Black Physicists at UTEP, El Paso, TX, October 17-18, 2008.

2. “The Impact of the Time-Energy Indeterminacy Relation on the Ontology of Spacetime” paper presented at the Third International Conference on the Ontology of Spacetime in Montreal, Canada, June 2008.

3. “The Physics of Anticipatory Systems” Paper presented at FuMee 1 – 1st Futures Meeting *Understanding Anticipatory Systems* at Rovereto (Italy), April 10-12, 2008.

4. “The Power of Flowers: The Philosophy of Organism of the Maya” Paper presented at the Haddox Conference, UTEP, El Paso, Texas, March 1, 2007.

5. “Process Philosophy of Education and Social Progress” presented at the *Third International Conference on Education, Labor, and Emancipation//Teaching for Global community: Overcoming the Divide and Conquer Strategies of the Oppressor*, at El Paso, Texas and Ciudad Juarez, Chihuahua, Mexico, Sept. 28-Oct. 1, 2006.

6. “The Ontology of Spacetime and Bergson’s Concept of Duration” Paper presented at the Conference of the European Society of History and Philosophy of Science (HOPOS), Paris, June 17th, 2006.

7. "The Ontological Status of Entities in Canonical Approaches to Quantum Gravity" paper presented at the Second International Conference on the Ontology of Spacetime in Montreal, Canada, June 2006.
8. "What Energy is It?" Paper presented at the 57th Annual Meeting of the New Mexico/West Texas Philosophical Society, April 2006. An abstract version of this paper has been accepted at Southwest Philosophical Studies.
9. "The Metaphysics of Pragmatism and Radical Empiricism." Paper presented at the American Philosophy Association, Pacific Division, Portland, OR, March 2006.
10. "The Einstein-Bergson Debate: A Time Centered Account of General Relativity" paper presented at HGR7: History of General Relativity International Conference in Tenerife, Spain, March 2005. This paper is in consideration for publication at the Conference's Proceedings.
11. "Mayan Mathematics in Education" paper accepted at the Siglo XXI: Latina/o Research Into the 21st Century Conference in Austin, Texas, January 2005. This paper is written in collaboration with Judith Munter, Assistant Dean of Education, UTEP.
12. "A Floral view of Maya and Mexica Metaphysics" paper presented at the January 2004 International Humanities Conference in Hawaii.
13. "A Philosophical Investigation of *In the Language of Kings*, An Anthology of Mesoamerican Literature" paper presented at the ACTC Conference in Dallas April 2004.
14. "Time-space instead of Space-time: A Less Spatialized Account of General Relativity" paper accepted for the International Conference on the Ontology of Spacetime in Montreal, Canada, May 2004.
15. "The Development of Perspective in the Renaissance: Scientific and Philosophical Implications" paper was accepted for the January 8-12 2003 International Humanities Conference in Hawaii. *Was not able to attend.*
16. Conferences prior to arrival at UTEP in 2002 available upon request

III. EMPLOYMENT

University of Texas at El Paso, Assistant Professor, Fall 2002-present
University of Texas at El Paso, Visiting Assistant Professor,
Fall 2001-Spring 2002
Oregon State University, Instructor, Spring 2000 – Fall 2000

IV. PROFESSIONAL REVIEWS

- ✧ Reviewer for the journal of philosophy *Synthese* in Philosophy of Physics, Metaphysics, and Pluralism (10+ reviews)
- ✧ Referee for the Minisymposium on the Nature of Time: Lessons from the Foundations of Relativity and Quantum Physics Conference
- ✧ Referee for the New Mexico-West Texas Association Conference 2008

V. EDUCATION

University of Oregon, Ph.D. in Philosophy	Fall 1995 – 2003 June 2003
MA in Philosophy, Graduate Physics Coursework,	June 2000 Fall 1991 – Spring 1995
Gonzaga University, BA in Philosophy	Fall 1987 – Spring 1991 Spring 1991
BS in Mathematics, BS in Physics,	Spring 1991 Spring 1991

VI. AWARDS

Grants

- ✧ Large Course Academy grant, UTEP, August 2006, \$600.00
- ✧ Summer Academy grant, UTEP, August 2002, \$2,000.00
- ✧ University Research (URI) Grant, UTEP, December 2002, \$3,200.00. Grant # [14-5078-6351](#).

Grants in Progress

- Participant in a System Transforming Undergraduate Education Initiative Grant. This two-year project is designed to promote student success and enhance faculty efficiency in large classes through the development and assessment of strategic interventions linked to student performance and participation. PI: Charles Ambler and Roy Matthews.
- Co PI (along with Don Salisbury, Physics Department at Austin College and Alexis de Saint Ours, Paris VIII) for a Foundational Questions in Physics (FQXi) grant (\$125,000) for research funding of the project: Dynamic Relationism in Quantum Gravity. Announcement next fall.

VII. PROFESSIONAL ASSOCIATIONS

American Philosophical Association
 Society for the Advancement of American Philosophy
 Philosophy of Science Association
 HOPOS
 New Mexico-West Texas Philosophical Association

VIII. LANGUAGES

Fluent: Catalan, Spanish; Competent: Italian, French

IX. REFERENCES

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