

Michael Epperson

Research Professor & Director
Consortium for Philosophy and the Natural Sciences
History and Philosophy of Science Program
Department of History
California State University, Sacramento

Department of History, MS 6059
California State University, Sacramento
6000 J Street, Sacramento CA 95819
www.csus.edu/cpns/epperson
epperson@csus.edu

EDUCATION:

- Ph.D. PHILOSOPHY – UNIVERSITY OF CHICAGO – THE DIVINITY SCHOOL** March 2003
- Dissertation:* *Quantum Mechanics and the Philosophy of Alfred North Whitehead* (2004, Fordham University Press; 2nd ed. 2012)
- Committee:* *Co-supervisors: David Tracy, University of Chicago & Peter Hodgson, Head of the Nuclear Physics Theoretical Group, University of Oxford. Franklin I. Gamwell, University of Chicago; John Albright, Professor of Physics and Chemistry, Purdue University; John B. Cobb, Jr., Claremont Graduate University*
- M.A. PHILOSOPHY – UNIVERSITY OF CHICAGO – THE DIVINITY SCHOOL** March 1996
Philosophical and Theological Ethics
- B.A. SANTA CLARA UNIVERSITY** June 1990
Concentrations in Biological Sciences and English Literature

EMPLOYMENT:

- Founding Director & Research Professor
Center for Philosophy and the Natural Sciences** 2008 -present
Departments of Philosophy (2008-13) and History (2014-present)
and College of Natural Sciences and Mathematics
(Note: Renamed “Consortium for Philosophy and the Natural Sciences” in 2021)
California State University Sacramento (www.csus.edu/cpns)
- Founding Director & Research Professor – History and Philosophy of Science Program** 2014 - present
Center for Philosophy and the Natural Sciences & Department of History
California State University Sacramento (<http://www.csus.edu/cpns/hps>)
- Visiting Professor – Philosophy of Science and Religion** 2015
Patriarch Athenagoras Orthodox Institute
Graduate Theological Union, Berkeley CA (www.csus.edu/cpns/programs.html)
- Lecturer – Department of Philosophy – California State University Sacramento** 2005 - 2007
- Adjunct Professor – Department of Theology – Loyola University, Chicago** 2002 - 2004
- Lecturer – Graham School – University of Chicago** 2002 - 2004

RESEARCH & GRANTS: (2007- present: \$1,000,102)

I study the historical and philosophical foundations of physics with an emphasis on quantum theory and its rehabilitation of ancient Hellenic ideas about the relationship between mathematics and nature.

More generally, I explore the philosophical implications underlying recent innovations in quantum mechanics, cosmology, and complexity theory. My approach is grounded in the study of the historical evolution of the conceptual frameworks central to these disciplines.

2017 – present: “Ontogenesis Process Group” - Arizona State University Synthesis Center, CPNS-CSUS, Rice University Center for Critical and Cultural Theory

Co-Principal Investigators: Sha Xin Wei (ASU), Stuart Kauffman (Santa Fe), Giuseppe Longo (École Normale Supérieure), Cary Wolfe (Rice), Phillip Thurtle (Univ. of Washington), Michael Epperson (CSUS-CPNS), Gaymon Bennett (ASU), Erin Espelie (University of Colorado Boulder), Adam Nocek (ASU)

2022: National University – Curriculum Design Grant – PHL 336: Science, Technology, and Humanity

Contracted to design National University’s first History and Philosophy of Science course as part of their revised curriculum in the College of Letters and Sciences. This course explores the evolution of key conceptual frameworks of modern science and the technologies born of this evolution—the frameworks of human engagement with the natural world.

2021: California State University, Sacramento – Curriculum Design Grant – History of Science and Christianity

Grant awarded to design CSUS’s first history of science and religion course. This course examines the co-evolution of western science and Christian theology from the vantage point of intellectual history.

2014 – 2017: Principal Investigator – “Experimental Application of the Relational Realist Formalism: A Topological, Sheaf-Theoretic Explication of Quantum Geometric Phases by Analysis of Experimental Data on the Aharonov-Bohm Effect, the Pancharatnam Phase, and the Quantum Hall Effect, Toward a Unified Interpretation” (\$131,200 – Fetzer Franklin Fund, Grant D34C101, & \$50K – Parmenides Foundation, Munich)

Co-Principal Investigator: Elias Zafiris, Senior Research Fellow in Theoretical and Mathematical Physics, University of Athens; Co-Investigator: Karim Bschrir, Chair for Philosophy, Swiss Federal Institute of Technology

2015 – 2016: Principal Investigator – “CSUS History and Philosophy of Science Program” California State University Sacramento (\$17,142 – Provost’s Research Award)

Co-Principal Investigator: Aaron Cohen, Ph.D., Chair, Department of History, CSUS. Development grant for the CSUS History and Philosophy of Science (HPS) Program. Components include: HPS Academic Learning Community, HPS GE Pathway, Visiting Scholar Series, HPS course sequence (HIST 104A “History of Ancient Science”, 104B “History of Medieval Science”, 104C “History of Modern Physical Science”) and redesign of HIST 107 survey course “History of the Physical Sciences.”

2010 – 2013: Principal Investigator – “Foundations of Relational Realism: The Evolution of Set Theoretic External Relations to Category Theoretic Internal Relations Toward an Event-Ontological, Topological Approach to Quantum Mechanics” (\$572,760 – Fetzer Franklin Fund, Grant D21C62)

Co-Investigators: Elias Zafiris, Senior Research Fellow in Theoretical and Mathematical Physics, University of Athens; Stuart Kauffman, Research Professor, Complex Systems Center, University of Vermont; Philip Stamp, Professor, Condensed Matter Theory, Department of Physics and Astronomy, University of British Columbia; Karim Bschrir, Chair for Philosophy, Swiss Federal Institute of Technology

2008 – 2009: Principal Investigator – “Logical Causality in Quantum Mechanics: Relational Realism and the Evolution of Ontology to Praxiology in the Philosophy of Nature” (\$209,000 – Fetzer Franklin Fund, Grant D11C36)

Co-Investigators: Co-Investigators: David Finkelstein, Professor, Department of Physics, Georgia Institute of Technology; Henry P. Stapp, Lawrence Berkeley National Laboratory; Timothy Eastman, NASA-Goddard.

2007: Principal Investigator – “Quantum Mechanical Investigations into the Causal and Logical Orders and the Physical Basis of Potentiality” (\$20,000 – John Templeton Foundation)

Co-Investigators: Dr. Henry P. Stapp, Lawrence Berkeley National Laboratory; Dr. David Finkelstein, Professor, Department of Physics, Georgia Institute of Technology; Dr. Timothy Eastman, Group Manager, Heliospheric Physics Laboratory, NASA Goddard Space Flight Center; Dr. William Kallfelz, Foundations of Physics Group, University of Maryland.

PUBLICATIONS:

Books:

Epperson, M. *Quantum Mechanics and the Philosophy of Alfred North Whitehead*. 2nd ed. Fordham University Press (2012). 1st ed. Fordham University Press (2004)

Epperson, M. and Zafiris, E. *Foundations of Relational Realism: A Topological Approach to Quantum Mechanics and the Philosophy of Nature*. New York: Rowman & Littlefield (2013)

Eastman, T., Epperson, M. and Griffin, D., eds. *Physics and Speculative Philosophy: Potentiality in Modern Science*. Berlin: De Gruyter (2016)

Articles and Book Chapters:

Epperson, M. “Relational Realism and the Ontogenetic Universe: Subject, Object, and Ontological Process in Quantum Mechanics.” *Angelaki* 25:3 (2020): 108-119

R. Kastner, S. Kauffman, M. Epperson, “Taking Heisenberg's Potentia Seriously” *International Journal of Quantum Foundations*, 4:2 (2018): 158-172

Epperson, M. “Event-Ontological Quantum Mechanics: A Process Theoretic Approach” in *Physics and Speculative Philosophy: Potentiality in Modern Science*. Timothy Eastman, Michael Epperson, and David Ray Griffin, eds. Berlin: De Gruyter (2016)

Epperson, M. “The Common Sense of Quantum Theory: Exploring the Internal Relational Structure of Self-Organization in Nature,” *Coding as Literacy, Metalithicum* 5. Ed. Vera Bühlmann and Ludger Hovestadt. Birkhäuser (2015)

Bschrir, K., Epperson, M., & Zafiris, E. “Decoherence: A View from Topology,” *European Journal for Philosophy of Science* (in review)

Epperson, M. “Quantum Mechanics and Relational Realism: Logical Causality and Wave Function Collapse,” *Process Studies*. 38:2, 340-367 (2010)

Epperson, M. “The Mechanics of Concrecence: Quantum Theory and Process Metaphysics,” *Studia Whiteheadiana* (Polish translation), Vol 4, 159-187 (2010)

Epperson, M. "Relational Realism: The Evolution of Ontology to Praxiology," *World Futures*, 65:1, 19-41. Routledge. (2009)

Epperson, M. "The Mechanics of Concrecence: Quantum Theory and Process Metaphysics" in *Handbook of Whiteheadian Process Thought*. Nicholas Rescher, Johanna Seibt, Michel Weber, eds. Berlin: Ontos-Verlag, 205-222 (2008); 2nd ed. De Gruyter (2013)

Epperson, M. "Whitehead and Modern Physics" in "The Resource Guide to *Physics and Whitehead: Process, Quantum, and Experience*," Timothy E. Eastman and Hank Keeton, eds. SUNY Press, (2003)

Reviews and Encyclopedia Articles:

Epperson, M. Review of *Subquantum Kinetics: A Systems Approach to Physics and Cosmology* by Paul LaViolette, in *Process Studies* 33, no. 1 (2004)

Epperson, M. Review of *Divine Action & Modern Science* by Nicholas Saunders, in *The Journal of Religion* 84, no. 4 (2004)

Epperson, M. Review of *In Whom We Live and Move and Have Our Being: Panentheistic Reflections on God's Presence in a Scientific World*, Philip Clayton and Arthur Peacocke, eds. in *The Journal of Religion* 85:2 (2005)

Epperson, M. "Roman Religions" in *The Encyclopedia of Religion and War*. Palmer-Fernandez, G. ed. New York: Routledge, (2003)

INVITED PRESENTATIONS:

October 28, 2022 – Loyola Marymount University & Greek Consulate General in Los Angeles

Presentation of the ethics and warfare documentary film *The 11th Day: Crete 1941*, written and co-produced by Michael Epperson. The film, presented at the invitation of the Consul General for Greece, Ionnis Stametakos, chronicles The Battle of Crete and the civilian Cretan resistance against Hitler's occupation forces in World War II. An introductory lecture was given by Consul General Stametakos prior to the film.

July 10, 2021 – Cobb Institute, Claremont Graduate University

Symposium panelist: "Untying the Gordian Knot - Process, Reality, and Context"

September 26-28, 2019 – Stony Brook University

Keynote Talk: "Subject, Object, and Ontological Process in Quantum Mechanics"
2nd Annual Phenomenological Approaches to Physics Conference

August 21-22, 2019 – Santa Fe Institute – Santa Fe, New Mexico

Presentation: "Dipolar Duality: Actuality and Potentiality in Quantum Mechanics"
"Thirty Years of Complex Thinking: A Celebration of Stuart Kauffman's Contributions to the Field of Complex Systems"

June 17-20, 2018 – 18th Annual Biosemiotics Gathering – UC Berkeley

Presentation: "Quantum Origins of Ontic Emergence"

February 8-12, 2018 – Ontogenetics Process Group – Santa Fe, New Mexico

Workshop: Stuart Kauffman, Complexity Theory; Sha Xin Wei, Arts, Media & Engineering, ASU; Philip Thurtle, Comp. History of Ideas, Univ. of Washington; Michael Epperson, History and Philosophy of Science, CSUS-CPNS; Cary Wolfe, Cultural Theory, Rice University; Adam Nocek, Arts, Media & Engineering, ASU; Erin Espelie, Critical Media Practices, University of Colorado Boulder, Editor-in Chief, *Natural History* magazine.

November 13-15, 2017 – Beyond Complexity: The Biosocial After the Digital – Arizona State University

Presentation: “Contextual Measurement in Quantum Mechanics: Inducing the Objective Global from the Subjective Local.” The Beyond Complexity seminar addresses the growing consensus in the sciences and the humanities that the complexity of living matter cannot be adequately captured by information theoretic explanations. To engage this complexity, this seminar brings together a vibrant and diverse group of scientists and scholars from across North America and Europe to participate in a series of workshops and public events hosted by Arizona State University.

April 19-23, 2017 – ASU Synthesis Center – Ontogenetics Process Group – Santa Fe, New Mexico

Inaugural Workshop: Stuart Kauffman, Complexity Theory; Sha Xin Wei, Arts, Media & Engineering, ASU; Michael Epperson, History and Philosophy of Science, CSUS-CPNS; Cary Wolfe, Cultural Theory, Rice University; Philip Thurtle, Comp. History of Ideas, Univ. of Washington; Adam Nocek, Arts, Media & Engineering, ASU

January 13-16, 2016 – Synthesis Center, Arizona State University

Workshop, “Quantum Mechanics + Category Theory After Deleuze and Badiou” with Sha Xin Wei, Director, School of Arts, Media, and Engineering, Synthesis Center, Arizona State University

June 4-7, 2015 – Pomona College, Claremont, California

10th International Whitehead Conference: “Seizing an Alternative: Toward an Ecological Civilization”:
4 presentations: [1] Section IV, Track 2 “The Ontology of Contextualized Potentiality: Whiteheadian Internal Relations in Quantum Mechanics”; [2] Section IV, Track 7: “The Behavioral, Neural, and Quantum Correlates of Conscious Experience: A Whiteheadian Look at Tononi and Koch’s Integrated Information Theory”; [3] Section II, Track 1: “A Mereotopological Bridging of Prehension and Extension in Whiteheadian Cosmology”; [4] Section IX, Track 4: “The Whiteheadian Path from Quantum Physics to Psychology”

May 22-24, 2014 – Swiss Federal Institute of Technology, Zurich

Presentation: “The Ontology and Epistemology of Internal Relations: Bridging the Physical and Conceptual in Quantum Mechanics and Quantum Information” – Fifth Metalithicum Klausur Symposium: “Computation as Literacy: Self Organizing Maps”

April 5-6, 2014 – U. C. Davis

Presentation: “Subject, Object, and Meaning in Quantum Mechanics” – Conference: “Quantity/Quality: The Problem of Measure in Philosophy and Science”

October 9, 2013 – Institute of Philosophy, Eötvös Loránd University, Budapest, Hungary

Lecture: “Potentiality and Contextuality in Quantum Mechanics: The Relational Realist Approach”

October 8, 2013 – Parmenides Foundation - Ludwig-Maximilians-Universität, Munich, Germany

Presentation with Elias Zafiris: “Relational Realism and the Topological Approach to Quantum Mechanics”

August 21-23, 2013 – Institute of Physics, University of Amsterdam, Netherlands

Symposium Presentation: “Relational Realism, Quantum Gravity, and the Holographic Principle”: Sebastian de Haro - Institute of Physics, University of Amsterdam; Dennis Dieks - Philosophy of Science - Utrecht University; Jeroen van Dongen - Institute for History and Foundations of Science - Utrecht University; Elias Zafiris - Theoretical physics and mathematics, CPNS and Institute of Mathematics, University of Athens; Michael Epperson - Philosophy of Science, CPNS, College of Natural Sciences and Mathematics, California State University, Sacramento; Karim Bschr - Philosophy of Science - Swiss Federal Institute of Technology.

February 4-7, 2013 – Swiss Federal Institute of Technology, Zurich, Switzerland

Workshop Presentation: “A Topological, Sheaf-Theoretic Explication of Quantum Geometric Phases By Analysis of Experimental Data on the Aharonov-Bohm Effect, the Pancharatnam Phase, and the Quantum Hall Effect, Toward a Unified Interpretation”

February 1-3, 2013 – Swiss Federal Institute of Technology, Zurich, Switzerland

Lecture: “Quantum Theory and Metaphysics” in the Fourth Metalithicum Klausur Symposium

December 12, 2012 – Center for Logic and Philosophy of Science, University of Brussels

Lecture with Elias Zafiris: “Foundations of Relational Realism: On Relational Realism and the use of Grothendieck Topology to Construct a Category-Sheaf Theoretic Interpretation of Quantum Mechanics”

December 6, 2012 – Department of Philosophy, California State University, Chico

Lecture: “The Mutual Implication of Objects and Relations in Quantum Mechanics: How Potentiality and Contextuality are Ontologically Significant in Modern Physics”

October 27-28, 2012 – Claremont Graduate University

Lecture: “Relational Realism and Issues in Modern Physics”

October 24, 2012 – California State University Sacramento

Lecture: “Understanding Quantum Mechanics: The Rehabilitation of Aristotle in Modern Physics”
Co-sponsored by the Hellenic Studies Program and The Hellenic American Professional Society

October 18-21, 2012 – University of California Santa Barbara

Panelist: “The Decline Effect: Evidence, Explanations, and Future Directions”

December 2, 2011 – Claremont Graduate University

Presentation: “Relational Realism, Quantum Mechanics, and the Philosophy of Alfred North Whitehead” –
Conference: “Whitehead: The Next Generation”

November 2, 2011 – Claremont Graduate University – Center for Process Studies

Presentation: “Quantum Mechanics, Category Theory, and the Philosophy of Whitehead” – Symposium:
“Conversations about Whitehead and Category Theory”

October 7, 2011 – University of Athens – Athens, Greece

Presentation: “Quantum Decoherence: A View from Topology” with Elias Zafiris and Karim Bschrir – 2011
European Philosophy of Science Association Conference

February 17, 2011 – Library of Congress – Washington D.C.

Presentation: “Logical Causality in Whitehead's Philosophy of Nature” – Symposium: “The Philosophy of Alfred
North Whitehead”

June 15-20, 2011 – Swiss Federal Institute of Technology – Zurich, Switzerland

Presentation: "Quantum Relational Realism: Mereotopology, Logical Implication, and Internal Relation in
Quantum Mechanics as Represented via Sheaf-theoretic Boolean Covering Systems": Michael Epperson -
CPNS, California State University Sacramento; Roland Omnès - University of Paris XI (Part II of the workshop
held in Bernex, France); Elias Zafiris - University of Athens; Karim Bschrir - Swiss Federal Institute of Technology;
Timothy E. Eastman - NASA Goddard

October 19-23, 2010 – University of Athens – Institute of Mathematics – Athens, Greece

Presentation: "Applying Sheaf/Category Theory to Quantum Mechanics: Logical Implication And The Internal
Relation Of The Local To The Global In Quantum Mechanical Predication": Elias Zafiris - University of Athens;
Karim Bschrir - Swiss Federal Institute of Technology; Michael Epperson, CPNS, Department of Philosophy,
California State University Sacramento

July 19-20, 2010 – Orcas Island, Washington

Presentation: “Foundations of Relational Realism: Logical Causality, Intrinsic Decoherence, and a Category-

Theoretic Mereotopological Model of Quantum Spacetime” – Workshop with Elias Zafiris, Research Fellow in Theoretical and Mathematical Physics, University of Athens; Philip Stamp, Department of Physics and Astronomy, University of British Columbia; Stuart Kauffman, Research Professor, Complex Systems Center, University of Vermont; Timothy E. Eastman, NASA-Goddard; Karim Bschrir, Swiss Federal Institute of Technology.

July 4-7, 2010 – Europa University Viadrina – Frankfurt-Oder, Germany

Presentation: “Quantum Relational Mereotopology: Category Theory, Logical Implication, and the Internal Relation of the Local to the Global” – *International Symposium on Generalizing Quantum Theory*

February 23, 2010 – California State University, Sacramento – STEM Lecture Series

Public Lecture: “From Classical Philosophy to Quantum Mechanics: An Evolving Reality”

February 2, 2010 – University of Freiburg – Freiburg, Germany

Presentation: “Quantum Relational Realism,” *Generalized Quantum Theory Research Group*. Participants include: Thomas Filk, Prof. of Theoretical Physics, University of Freiburg; Gunter Mahler, Prof. of Theoretical Physics, University of Stuttgart; Harald Walach, Research Professor in Psychology, Univ. of Northampton, UK; Jose Raul Narango, Dept. of Physics, Univ. of Freiburg; Nikolaus v. Stillfried, University of Freiburg.

January 29-20, 2010 – Swiss Federal Institute of Technology – Zurich, Switzerland

Presentation: CPNS/ETH Workshop - *Quantum Logical Causality, Category Theory, and the Philosophy of Whitehead*. Other participants include: Elias Zafiris, Dept. of Mathematics, University of Athens; Karim Bschrir, Chair of Philosophy, Swiss Federal Institute of Technology

July 1, 2009 – British Embassy, Athens Greece

British Ambassador to Greece, Dr. David Landsman, hosted and introduced a special screening of the ethics and warfare documentary film *The 11th Day: Crete 1941*, written and co-produced by Michael Epperson. This film chronicles The Battle of Crete and the civilian Cretan resistance against Hitler’s occupation forces in World War II.

June 27-28, 2009 – University of Brussels (Vrije Universiteit Brussel) – Brussels, Belgium

Presentation: “Logical Causality in Quantum Mechanics,” Center for Logic and Philosophy of Science: Symposium - *Logical Causality and the Philosophy of Alfred North Whitehead*. Other participants include: Jean Paul Van Bendegem, Dean of the Math Faculty at VUB and Director of CLWF; Paul Gochet, Emeritus Professor of Philosophy, University of Liège

June 13-20, 2009 – University of Rome, Italy

Lecture and panel discussion on *Logic in Quantum Mechanics*: International Conference on Philosophy, Science and Spirituality (Cortona, Italy). Panel: Arthur Zajonc, Professor of Physics, Amherst College; Michel Bitbol, Director of Research, CNRS; Michael Epperson - Director, Center for Philosophy and the Natural Sciences, California State University, Sacramento; Eshel Ben-Jacob - Professor of Physics, Tel Aviv University.

Other speakers at this conference include: Anne Harrington, Chair, Dept. of History of Science, Harvard University; Stuart Kauffman, University of Calgary, Depts. of Biological Sciences and Physics

August 14-17, 2008 – CSU Sacramento – Center for Philosophy and the Natural Sciences

Presentation: “Logical Causality in Quantum Mechanics.” Workshop: *Logical Causality in Quantum Mechanics*. David Finkelstein, Dept. of Physics, Georgia Institute of Technology; Henry Stapp, Lawrence Berkeley National Laboratory; Timothy E. Eastman, NASA-Goddard; Mohsen Shiri-Garakani, Pace University; William Kallfelz, University of Maryland

August 15-18, 2007 – University of Maryland

Presentation: “Quantum Mechanics, Causality, and Logical Internal Relations.” Workshop: *Quantum Physical Investigations into the Causal and Logical Orders and the Physical Basis of Possibility*: David Finkelstein, Dept. of Physics, Georgia Institute of Technology; Henry Stapp, Lawrence Berkeley National Laboratory; Timothy E. Eastman, NASA-Goddard; Mohsen Shiri-Garakani, Pace University; William Kallfelz, University of Maryland

July 3-6, 2006 – Salzburg, Austria – Salzburg University

Section Head, “Whitehead, Science, and Theology.” 6th Annual International Whitehead Conference

September 28-October 2, 2005 – Claremont Graduate University – Center for Process Studies

Presentation: “Bridging Necessity and Contingency: The Scientific Rehabilitation of Process Metaphysics” – *Quantum Physics, Process Philosophy, and Matters of Religious Concern* – Panelist with Shimon Malin, Professor of Physics, Colgate University; B.J. Hiley, Professor Emeritus of Physics, University of London; Reginald Cahill, Professor of Physics, Flinders University, David Ray Griffin, Professor, Claremont Graduate University

May 20, 2004 – Washington, D.C. – Congressional Presentation – U.S. Capitol

Presentation of the ethics and warfare documentary film *The 11th Day: Crete 1941*, written and co-produced by Michael Epperson. The film chronicles The Battle of Crete and the civilian Cretan resistance against Hitler’s occupation forces in World War II. The film was presented, with introductory remarks, by Congressman Michael Bilirakis (FL). United States Capitol, Canon House Building, Room 340, 3-4 pm.

July 2003 – Ascona, Switzerland – Eranos Conference

Presentation: “Critique of Arpad Szokolczai’s ‘World-Rejections and World-Conquests: The Spiraling Dynamics of War and Peace’” – Eranos Conference 2003, “Humans at War, At Peace with Nature”

April 23, 2003 – Claremont Graduate University – Center for Process Studies

Presentation: “The Mechanics of Concrescence: Quantum Theory and Process Metaphysics”
Center for Process Studies

March 14, 2002 – Chicago, IL – Center for Theology and the Natural Sciences Chicago Group

Presentation: “The Philosophical Implications of Quantum Mechanics”

FELLOWSHIPS AND HONORS:

Wabash Fellowship for the Chicago Forum on Pedagogy and the Study of Religion (2001-2002); Stephen and Ruth Durchlag Fellowship for the application of complex adaptive systems theory to the philosophy of science and religion (1997-1998); University of Chicago Fellowship (1996-1999); Biological Sciences Colloquium Fellow, Department of Biology, Santa Clara University (1989-1990); Alpha Sigma Nu, Jesuit Honor Society.

TEACHING COMPETENCIES AND EXPERIENCE:

Ancient, early modern, and modern philosophy, metaphysics, and history of philosophy; history and philosophy of science; philosophy of science and cosmology; philosophical foundations of quantum physics; modern and contemporary philosophy of religion; issues in science and religion; classical and modern philosophical and theological ethics.

CALIFORNIA STATE UNIVERSITY SACRAMENTO, Sacramento, CA
Department of Philosophy and Department of History

2005 - present

PHIL 125	<i>Philosophy of Science</i>	HIST 107	<i>History of the Physical Sciences</i>
PHIL 131	<i>Philosophy of Religion</i>	HIST 104a	<i>History of Ancient Science</i>
PHIL 101	<i>Ethics and Social Issues</i>	HIST 104b	<i>History of Medieval Science*</i>
PHIL 26	<i>History of Philosophy</i>	HIST 104c	<i>History of Modern Physics*</i>
PHIL 25	<i>Ancient Philosophy</i>		
PHIL 27	<i>Early Modern Philosophy</i>		
PHIL 2	<i>Philosophical Ethics</i>	* Designed and submitted	
PHIL 6	<i>Introduction to Philosophy</i>		

Curriculum Development:

- Founded California State University's History and Philosophy of Science (HPS) Program in 2014 (www.csus.edu/cpns/hps). Designed the following HPS courses in the Department of History: HIST 104a *History of Ancient Science*; HIST 107 *History of the Physical Sciences* (redesigned as an intellectual history course). In 2016, this redesigned *History of the Physical Sciences* course was selected as a master class to be observed as part of the [UC Davis Medical School's Interprofessional Teaching Scholars Program](#).
- 2021: California State University, Sacramento – Curriculum Design Grant – History of Science and Christianity. Grant awarded to design CSUS's first history of science and religion course. This course examines the co-evolution of western science and Christian theology from the vantage point of intellectual history.
- 2022: Contracted to design National University's history and philosophy of science course PHL 336: Science, Technology, and Human Life

National Research Council, National Academy of Sciences

Panelist: Ford Foundation Fellowships Program, Irvine, CA – 2014

GRADUATE THEOLOGICAL UNION, Berkeley, CA
 "Orthodox Christianity and Modern Science"

Spring 2015

UNIVERSITY OF CHICAGO, Graham School, Chicago, IL
 "The Metaphysics Behind Quantum Mechanics II: Quantum Mechanics and Modernity"
 "The Metaphysics Behind Quantum Mechanics I"
 "Problems in Science and Religion: God and 21st Century Science"
 "Religion and the History, Method, and Theories of Modern Science"

2003 - 2004

LOYOLA UNIVERSITY, Chicago, IL
 "Science, Religion, and Society," "Rationality, Religion, and Ethics," "Moral Problems"

2002 - 2004

RELATED PROFESSIONAL EXPERIENCE:

Historical Documentary Films on Ethics and Warfare:

2003 - 2006

The 11th Day: Crete 1941 (writer – producer). Archangel Films and the Mnimi Foundation for Hellenic History and Culture (December 2006)

en.wikipedia.org/wiki/The_11th_Day:_Crete_1941; www.The11thDay.org

Responsible for story development, script, dialogue editing, and off-line editing consultation. *The 11th Day* is a 90 minute documentary film sponsored by A.G. Spanos and filmed by an award winning production crew. It chronicles the story of the Cretan resistance movement in World War II as told first hand and on-location by several of its surviving members, and through dramatic re-enactments.

In 2005, the film made a theatrical tour throughout the United States, Europe, Australia, and New Zealand, during which it received critical acclaim in publications including *The Chicago Tribune*, Canada's *National Post*, *The Sacramento Bee*, and *Newsday*. Exhibitions have included a special advance screening requested by members of the United States Congress in 2004, held at the Capitol, and at the British Embassy in Athens, Greece in 2009. Research for the film, including unpublished photos and diaries, has been requested by and provided to museums around the world, including the National World War II Museum in New Orleans, The CIA Museum at CIA Headquarters, and Britain's Imperial War Museum.
(www.The11thDay.org)

Outpost Harry (writer – producer). Archangel Films and the Mnimi Foundation for Hellenic History and Culture (in production):
http://www.csus.edu/cpns/epperson/assets/docs/OP_Harry.pdf

ASSISTANT DIRECTOR, PROGRAM IN SCIENCE AND RELIGION

THE LUMEN CHRISTI INSTITUTE, Chicago, IL

2002-2004
(Program
Coordinator,
1998-2002)

Responsible for organizing and managing academic symposia, conferences, and lectures. Events include: “The Mind of the Universe” by Mariano Artigas, Professor of Natural Science, The University of Navarra, Spain; “Fides et Ratio”: a symposium featuring Archbishop Joseph Zycinski of Lublin, Poland, Professor of Philosophy of Science, the Pontifical Academy of Theology, Cracow, Poland; Jean-Luc Marion of the Univ. of Chicago & University of Paris, Sorbonne; and Francis Cardinal George, Archbishop of Chicago.

ST. IGNATIUS COLLEGE PREPARATORY, Chicago, IL

Taught comparative ethics, senior philosophy of religion, summer sessions in chemistry and biology

1996 - 1997

JESUIT HIGH SCHOOL, Carmichael, CA

Taught summer sessions in world history

1994 - 1995

BROPHY COLLEGE PREPARATORY, Phoenix, AZ

Taught English literature, American literature, composition and rhetoric. Served as band instructor and drama director

1990 - 1993

PROFESSIONAL AFFILIATIONS:

American Philosophical Association
American Theological Society
American Academy of Religion