

## **ALBERTO CORDERO**

Alberto CORDERO-LECCA)

Full Professor of Philosophy and History, City University of New York at the CUNY Graduate Center and Queens College CUNY.

Director of Graduate Studies, Philosophy Department, Queens College, CUNY. Numerary Member of the *Academie Internationale de Philosophie des Sciences* and of the *Institute de Hautes Sciences Theoriques, Brussels*. Doctor, *Honoris Causa*, Universidad Nacional Mayor de San Marcos and Universidad Peruana Ricardo Palma, Lima. Honorary Professor,, Universidad Peruana Cayetano Heredia, Lima, Peru.

Former Chairman of the Philosophy Panel of the Research Foundation, CUNY; former Chairman of the Columbia University Seminar on the History & Philosophy of Science. Former University Director of the Library, Publications and Museums of Cayetano Heredia University (Lima-Peru), former Chairman of the Department of Physics & Mathematics and Honorary Director of the Program for Scientific Thought, Universidad Peruana Cayetano Heredia, Lima, Peru..

Fields: Philosophy of science and the philosophical history of science; scientific realism, foundations of physics, contemporary naturalism.

**ALBERTO CORDERO**  
(Luis-Alberto Cordero-Lecca)  
Curriculum Vitae, March 2013

**FIELDS:** Philosophy of science and the philosophical history of science; scientific realism, foundations of physics, contemporary naturalism.

**NATIONALITY:** Peru

## **HIGHER EDUCATION**

### **A. Degrees**

- Ph.D.: University of Maryland (College Park) (Ph.D., Philosophy): Dissertation: "Objectivism, Naturalism, and the Revision of Quantum Theory."
- M.Phil.: University of Cambridge (Trinity College), Master of Philosophy (History & Philosophy of Science): Dissertation: "The ontological interpretation of the Heisenberg relations".
- M.Sc.: University of Oxford (Worcester College), Master of Science (Nuclear Physics): Dissertation: "Heavy ion reactions and L-dependent optical model calculations."
- Lic. & BSc: Universidad Nacional de Ingenieria, Lima, Licenciatura & B.Sc. (Physics and Mathematics): Dissertation: "La energia de un nucleo elipsoidal".

### **B. Additional Higher Education**

- University of Oxford: Philosophy courses of the Physics & Philosophy Program.
- Universidad Peruana Cayetano Heredia, Lima: General Studies (Concentration in philosophy, physiology and psychology):

### **C. Academic and Professional Recognitions**

- Doctor *Honoris Causa*, Universidad Nacional Mayor de San Marcos, Lima, Peru (oldest university in continuous function in the Americas (since 1548).
- Honorary Professor, Universidad Peruana Cayetano Heredia, Lima, Peru.
- Fellow, Corpus Christi College, University of Cambridge (2009/2010).
- Fellow, Centre of Natural and Social Philosophy, London School of Economics, (2009/2010).
- Chairman of the Natural Philosophy Chapter, World Congress of Philosophy, Turkey, 2003.
- Doctor *Honoris Causa*, for services to philosophy, science and education. Universidad Ricardo Palma, Lima, Peru, 2000.

- Invited Speaker, Opening Session of the 5th International Congress on Science and Education, Como, Italy, October 1999.
- Plenary Session Speaker & Chairman of the Philosophy of Physics Section, 20th World Congress of Philosophy, Boston, August 1998.
- Guggenheim Fellow 1993/94
- Visiting Fellow, Department of History & Philosophy of Science and of Wolfson College, University of Cambridge. Lent & Easter Terms, 1994.
- Chairman of the Philosophy of Science Section, 1993 World Congress of Philosophy, Moscow.
- International Associate & Advisor (ad honorem). Graduate School, Universidad Nacional Mayor de San Marcos, Lima. 1992-1996.
- Numerary Member, Academie Internationale de Philosophie des Sciences, Brussels. (1983-)
- All Souls College, University of Oxford, England: Visiting Fellow, 1993-94.
- International Senior Research Associate; Dept. of Theoretical Physics, Università degli Studi, and Interdisciplinary Laboratory for Natural and Humanistic Sciences, Trieste, Italy; 1992.
- Chairman, Columbia University Seminar for the History & Philosophy of Science. 1991-1992.
- Presidential Research Award, Queens College, Fall 1990.
- University Seminar Associate, History & Philosophy of Science, Columbia University, New York. 1987-present.
- Harvard Senior Visiting Fellow; 1984.
- Fulbright Fellowship, 1983
- Goethe & Internationales Fellow; 1982
- Ford Foundation Scholarship; 1978

## **EXPERIENCE**

### **A.- TEACHING-RELATED**

- Full Professor of Philosophy and History, City University of New York at both the Graduate Center and Queens College. (1987 – present)
- Visiting Associate Professor & Lecturer; Dept. of Philosophy, University of Maryland at College Park, 1983-1987.
- Full Professor of the Humanities. Department of Humanities. Universidad de Lima, 1981-83.
- Associate Professor of Physics & Philosophy of Science, Universidad Peruana Cayetano Heredia, Lima, 1979-87.
- Profesor Auxiliar (Assistant Professor) of Physics and Foundations of Physics, Universidad Peruana

Cayetano Heredia, 1972-73.

-Lecturer, Dept. of Physics, Universidad Peruana Cayetano Heredia, 1971-73.

## **B.- OTHER ACADEMIC POSITIONS**

### **B1: Research**

-Fellow, Corpus Christi College, University of Cambridge (2009/2010).

-Fellow, Centre of Natural and Social Philosophy, London School of Economics (2009/2010).

-Honorary Director of the Program for Scientific Thought, Universidad Peruana Cayetano Heredia, Lima, Peru. Since 1993-.

-Visiting Fellow, Department of History & Philosophy of Science, and Wolfson College, University of Cambridge; 1994.

-VSR Fellow, All Souls College, University of Oxford, England: 1993.

-Numerary Member: Academie Internationale de Philosophie des Sciences, and the Institute de Hautes Sciences Theoriques, Brussels. 1992- (Correspondent Member 1982-92).

-Visiting Senior Scholar, Dept. of Philosophy, Harvard University, 1984.

-Senior Research Fellow, Institute for Philosophical Investigations, and Professor of Philosophy, Lima University, 1981-88.

### **B2: Academic Administration**

-Director of Graduate Studies, Philosophy Department, Queens College. 1999-present.

-Academic Adviser to the Biennial International Congress of Ontology, Spain. 1997-present.

-Honorary Chairman of the program "Pensamiento Científico", Universidad Peruana Cayetano Heredia", Lima-Peru, 1987-present.

-Chairman & Liaison, Philosophy Panel, University Committee for Research Awards, RF-CUNY; 2002-2008.

-Academic Advisor (2003-04), Doctoral Program in Philosophy at the Graduate Center, CUNY.

-Chairman (2002-03; 2005-08) of the Comprehensive Examinations Committee in Philosophy of Science and Philosophy of Language; Doctoral Program in Philosophy at the Graduate center, CUNY.

-Comprehensive Examinations Committee in Philosophy of Science and Philosophy of Language; Doctoral Program in Philosophy at the Graduate Center, CUNY. 1996-2009.

-International Coordinator of the Annual Philosophy Colloquium & Seminar, Universidad Ricardo Palma, Lima, Peru. 2000-04.

-Philosophy Library Committee, Doctoral Program at the Graduate Center, CUNY; 1998-2002.

-Vice-Chairman, Humanities Division, CUNY Research Foundation; 1997-98.

- Chairman & Liaison of the Philosophy Panel, CUNY Research Foundation; 1995-98.
- Honors & Awards Committee, Queens College CUNY; 1997-2001.
- Curriculum Committee, Dept. of Philosophy, Queens College, CUNY. 1991-2000.
- Library Representative, Philosophy Department, Queens College, CUNY. 1987-2000.
- Representative of the Philosophy Department; Powdermaker Hall Renovation Committee, Queens College. 1994-97
- International Associate & Advisor (ad honorem). Graduate School, Universidad Nacional Mayor de San Marcos, Lima. 1992-96.
- Chairman, Columbia University Seminar on the History and Philosophy of Science. 1991-92.
- Planning Committee. Queens College CUNY Presidential Council for Multicultural Initiatives. 1991-93.
- Senator at Large, Social Sciences Division, Queens College, CUNY. 1988-1992.
- Head of the Department of Physics, Mathematics and Foundations of Science, Universidad Peruana Cayetano Heredia, Lima, 1980-85.
- General Coordinator of the Program for the History, Philosophy and Sociology of Science and Technology, Peruvian Council for Science and Technology, Lima, 1981-83.
- Member of the University Executive Board, Universidad Peruana Cayetano Heredia, Lima, Peru, 1979-80.
- Director of the University Library, Museums and the University Press, Universidad Peruana Cayetano Heredia, 1979-80.

### **B3. EDITORIAL BOARDS**

*Analítica*; Peru

*Crítica*; Mexico

*Ontology Studies*; Spain

*Philosophia*, Ecuador

*Science & Education*; a Springer-Verlag journal

## PUBLICATIONS AND CREATIVE WORKS

### (A) BOOKS

*Philosophy and the Origin and Evolution of the Universe*. Includes critical introduction by editors. With E. Agazzi. Dordrecht: Synthese Library, Kluwer, 1991. 500 pp.

### (B) SELECTED JOURNAL ARTICLES & CHAPTERS IN BOOKS/ANTHOLOGIES . Refereed publications indicated with “+”:

#### Forthcoming:

Volume: *Reflections on Naturalism* (ed., with J.I. Galparsoro); Spring (2013).

#### Articles:

“Naturalism and Scientific Realism”, in *Reflections on Naturalism* (J.I. Galparsoro & A. Cordero, eds.); Spring (2013).

“Naturalism and Philosophy” (with J.S. Galparsoro), introductory essay for *Reflections on Naturalism*, Spring (2013).

(+) “Theorizing and the Weight of Received Metaphysics”. Forthcoming in *Science & Education* (2012)

(+) “Predictive Power and the Hermeneutic Circle”. Forthcoming in *Science and Interpretation*. Berlin (2012): Akademie Verlag.

(+) “Theory-Parts for Realists”. European Philosophy of Science Association, Selected Papers of PSA11. Forthcoming, Summer 2013.

#### In Print:

(+) “Conversations across Meaning Variance”. *Science & Education*. Printed version, , Spring 2013. Also available to licensed libraries and institutions as an Online First article on SpringerLink [(DOI) 10.1007/s11191-012-9540-y]. <http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s11191-012-9540-y>

+ “Explanatory Elucidation and Scientific Realism”. *Epistemologia* (XXXV, 2012): 59-70.

+ “Mario Bunge’s Scientific Realism”. *Science & Education* (Vol. 21, 2012): 1319-1435.

+ “Scientific Realism and the *Divide et Impera* Strategy: The Ether Saga Revisited. *Philosophy of Science* (Vol. 78, 2011): 1120-1130.

+ “Rejected Posits, Realism, and the History of Science”. *The European Philosophy of Science Association Vol. 1* (2011). Springer: 23-32.

+ “Darwin's Theory and Prediction”, in F. Minazzi (Ed.), *Evolutionism and Religion*. Milano: Mimesis Edizioni (2011): 79-94.

+ “Realism and the Infinitely Faceted World: Intimations from the 1950s”, *Ontology Studies* (2010); also in *Analitica*, Vol. 4. (2010): 9-26.

+ “Inter-Theoretic Relations: the “Natural” and “Human” Sciences Today”, in F. di Bernardo (ed), *The Natural and*

*Social Sciences Today . Epistemologia* 15 (2010): 259-278.

+ “Fifty Years of Philosophy of Science in Latin America”; in *Blackwell Companion to Latin American Philosophy*, (S. Nuccetelli et al., eds.). Oxford: Wiley-Blackwell (2009), pp. 370-382.

+ “On The Myth That Scientific Realism Is Dead”, in *Areté*, Vol. XXI (2009): pp. 363-379.

+”Contemporary Science and Worldview-Making”; *Science & Education* Vol. 18 (2009): 747-764. Reprinted in *Science, Worldviews and Education*, M. Matthews (Ed.); Springer: 99-116.

+ “La Teoría de Darwin, Aventura Epistemológica”, in *Analítica*, 3 (2009): pp. 73-90.

+ “L’apprendimento delle scienze inteso come evoluzione di un sistema complesso: un progetto di ricerca”. In Francesco Abbona, Giuseppe Del Re, and Guglielmo Monaco (curatori): *Complessità Dinamica dei Processi Educativi. Aspetti Teorici e Pratici*. Rome: Franco Angeli Edizioni, 2009.

-+”Pluralism, Scientific Values, and the Value of Science”, in *Science and Ethics: The Axiological Contexts of Science*; F. Minazzi et al. (eds.). Brussels: Peter Lang (2008), pp. 101-114.

-+ “Diachronic Local Realisms about Successful Theories”; short version in XXII World Congress of Philosophy: 211-12; full version forthcoming in *Proceedings*.

-”Possibility, Actuality, and the Growth of Imagination: the Many Worlds Approach to Quantum Physics”, *Ontology Studies* ( Vol. 8, 2008): 99-110.

+ “The Experienced Present and the Metaphysics of Point-Value Properties”, in J-P Descles et al. (Eds.), *Time in the Different Scientific Approaches/ Le temps appréhendé à travers différentes disciplines*. Tilgher, Genova, (2008): pp. 59-74.

+ “Epistemology and ‘the Social’ in Contemporary Natural Science”. in *Poznan Studies in the Philosophy of the Sciences and the Humanities* 96 (1):129-142 .

-+”Retrospective Realism and Scientific Progress”. Short version in *13<sup>th</sup> International Congress of Logic, Methodology, and Philosophy of Science*, Beijing, China: International Union of History and Philosophy of Science (2007): pp. 229-230.

-”Contemporary Nativism, Scientific Texture, and the Moral Limits of Free Inquiry”. *Philosophy of Science* 72 (2005/2007): 1220-1231.

-+”Nature, Science, and the Opening of Mind”. *Ontology Studies*, Vol 5-6 (2006): 43-50.

-+ “Hacia Una Nueva Era”, *Unodiverso: Ciencia y Sociedad* II (2006): pp. 42-46.

-”Why Objectivist Programs in Quantum Theory do not Need an Alternative Logic”; in P. Weingartner (ed.), *Alternative Logics: Do Sciences Need Them?* Berlin: Springer Verlag (2004): 257-268.

-+”Old Bestiaries, Biology, and the Road to Realism”. in *Genetic Homology and Human Singularity* (Essays in honor of F.J. Ayala). *Ontology Studies*, Vol 4 (2004): 205-213.

-+”Understanding Quantum Physics”. *Science & Education* 12 (2003): 503-511.

-+”Classical Properties in a Quantum-mechanical World”, in *Complexity and Emergence*, J. Montecucco (ed.). World Scientific (2003): 87-100.

- +”Unity in a Single Scientific Field”; in *The Problem of the Unity of Science*, Jan Faye (ed.). London: World Scientific (2002): 153-164.
- +”Realism and Underdetermination: Some Clues From the Practices-Up”. *Philosophy of Science* 68S (2001): 301-12.
- ”Observaciones Acerca de la Cultura en el Siglo XXI. (Réplica a Ignacio Ramonet y Joan Subirats). Proceedings of *Conferencia Anual de Ejecutivos 2000-2001*, Lima, Peru; April, 2001.
- +”Scientific Culture and Public Education”, in *Science & Education* 10 (2001): 71-83. Reprinted in *Science Education and Culture: The Contribution of History and Philosophy of Science*, Bevilacqua, Fabio et al. (eds.); Dordrecht: Kluwer (2001): 17-30.
- ”Physics and the Underdetermination Thesis: Some Lessons from Quantum Theory”. Invited Paper: in *Proceedings of the Twentieth World Congress of Philosophy (Philosophy of Science)*, Tian Yu Cao (Editor). Philosophy Documentation Center, Bowling Green State University (2001): 97-113.
- +”Quantum Physics and the Critical revision of Ontology”. In *Physis: The Concept of Nature from Greek Thought to Quantum Mechanics*, V. Gómez-Pin (Ed). Madrid, 2000): pp 135-145.
- ”Infinite Space: Then and Now”. Presentation essay to *El Espacio y el Infinito en la Modernidad*, by Laura Benítez & José-Antonio Robles. México D.F.: Publicaciones Cruz O., S.A (2000): pp 1-9.
- +”Rival Theories Without Observable Differences”. In M. Pauri (ed.), *Observability, Unobservability and their Impact on Scientific Realism*. Dordrecht: Kluwer Academic Publishers (2000): 191-206.
- +”Are GRW Tails as Bad as They Say?”, in *Philosophy of Science* 66S (1999): 59-S71.
- +”On the Growing Complementarity of Science and Technology”. In E. Lenk (d.), *Advances in the Philosophy of Technology*. Newark, DE: Society for the Philosophy of Technology (1999): 145-156.
- +Quantum Theory and the Underdetermination Thesis. Invited Paper, in *Issues in Contemporary Philosophy, Volume 7*. Tehran, Iran: Sadra Islamic Philosophy Research Institute Publications (1999): 226-246p.
- +”Pensamiento Científico y Excelencia Informativa”. Invited contribution: *Areté* (Jubilee International Edition) XI. Lima: Pontificia Universidad Católica del Perú (1999):. 773-794.
- +”From the Aristotelian Spheres to Quantum-mechanical Action”. Short version in *Aristotle and Contemporary Science*, D. Sfendou (Ed.). Tessaloniki University (1998): 38-40.
- ”Culture and Cuisine in Peru”. Presentation essay, *Peruvian Cultural Festival*. New York: Peruvian Mission to the United Nations, October 1997.
- ”Educación Superior y Desarrollo: Reflexiones en Torno al Nuevo Siglo”. Work commissioned by Instituto Peruano, for accompanying volume to Conference *Peru Siglo 21: Propuestas para una Visión Compartida*. Lima, Decemeber, 1996. D. Kisic (Ed). Vol. I, pp 20-28.
- ”Las Ideas Evolucionistas”, en S. Martínez & L. Olivé (Eds.), *Epistemología Evolucionista*. Mexico, D.F.: UNAM, 185-220.
- +”Two Bad Arguments Against Naturalism”. In J. Mosterín, *Current Issues in the Philosophy of Biology*. Vigo, Spain: Universidad de Vigo, 1998, pp. 265-290.
- +”Can a Body Act Where it Is Not?: The Debate Then and Now. Greek translation in *Actuality of Greek Philosophy*; M. Monachou, (ed). University of Crete, (1997).



--"On Science and Hypothesis", in Selected Papers from the Henri Poincaré Sesquicentennial Conference. Institut Poincaré, Nancy, France, 1996, pp 105-26.

--"A GRW-Like Approach to the Measurement Problem"; short version in M.L. Dalla Chiara (ed.), 10th International Congress of Logic, Methodology and Philosophy of Science. Florence: International Union of History & Philosophy of Science, 1995, pp. 454-55.

+ "La Inteligibilidad Racional y la Ciencia." In L. Olive (ed.), Racionalidad Epistémica. Madrid: Enciclopedia Iberoamericana de Filosofía, 1994, pp. 123-46.

+ "Practical Reasoning in the Foundations of Quantum Theory," in *9th International Congress of Logic, Methodology and Philosophy of Science*. Synthese Library, 1994, pp 439-52.

--"Epistemología de las Realidades Ocultas", in Invited Papers: Actas del XIII Congreso Interamericano de Filosofía, Bogotá, Colombia.

--"Prior Information and the Development of New Ideas". In J. Leplin (ed.), The Creation of Ideas in Physics. Boston: Kluwer Academic Publishers, pp 189-222.

+ "Arguing for Hidden Realities". + "Accepting Hidden Realities," in The Status of Physical Entities. Bern: Haupt, 1993, pp. 1-12. Longer version in Epistemologia

- "Reflexiones en Torno a Una Buena Mazamorra," a philosophical epilogue. In Cultura y Cocina en el Perú, Rosario Olivás (ed). Lima: Universidad San Martín de Porras, 1993, pp.337-62.

+ "Science, Objectivity and Moral Values," in Science & Education 1: 49-70; Boston & Dordrecht, 1992.

+ "Intelligibility in Quantum Physics", in C. Dilworth (ed.), Intelligibility in Science: 175-215. Amsterdam: Editions Rodopi, 1992.

-Contributions to newspapers and general interest magazines. Sample enclosed.

+ "La Razon sin Teoria", in D. Garcia Belaunde et al. (eds) Francisco Miro-Quesada y el Pensamiento Latino Americano, Lima: Universidad de Lima, 1993.

+ "Evolutionary Ideas and Contemporary Naturalism", in E. Agazzi & A. Cordero (eds.) Philosophy and the Evolution of the Universe: 399-439. Dordrecht: Synthese Library, Kluwer, 1991.

-Critical Introduction to Philosophy and the Evolution of the Universe: i-xi. With E. Agazzi. Dordrecht: Synthese Library, Kluwer, 1991.

+ "Scientific Knowledge and Contemporary Wisdom." Defis et Dialogues 14: 127-153. Fribourg, Switzerland, 1991.

+ "State Reduction From the Practices-Up", in Philosophy of Science Association 1990. East Lansing: PSA, 1990. Volume One: pp. 263-275.

+ "Varela y la Filosofía Latino Americana", in R. Esquenazi (ed.) Varela: Cuban Philosopher, Priest and Patriot. Washington, DC: Library of Congress & Georgetown UP, 1990. Pp: 27-35.

+ "Can we Distinguish Between Science and Metaphysics"? In A. Mercier (ed.), Science and Metaphysics Genoa: Tilgher, 1989. Pp: 65-82.

+ "Quantum Measurement, Physics and Philosophy"; in P Wiengartner & G. Schurz (eds.) Philosophy of the Natural Sciences Vienna: Verlag Holder-Pichler-Tempsky, 1989. Pp:161-170.

- + "Non-linearity and Post-Bell Quantum Mechanics", in M. Kafatos (ed.), Bell's Theorem, Quantum Theory, and Conceptions of the Universe. Boston: Kluwer, 1989. Pp: 131-136.
- + "Science, Education and the Limits of the Scientific Understanding of Things"; in D.E. Herget (ed.), The History and Philosophy of Science in Science Teaching. Tallahassee: Florida State Univ., 1989. Vol 2. pp: 1-9.
- + "Constructive Empiricism: Arbitrary or Incoherent?". Critica, Mexico, Vol XXI (1989), pp: 75-102.
- + "Burian on the 'Evolutionary Paradigm'", in M. Hecht (ed.) Evolution at the Crossroads. New York: Queens College Press, 1989. Pp: 167-171.
- + "Probability and the Mystery of Quantum Mechanics"; in E. Agazzi (ed.) Probability in the Sciences. Dordrecht: Kluwer, 1988. Pp: 217-232.
- + "Experience, Rationality and the Bounds of Law"; Epistemologia, Italy, (1987) X: 227-242.
- + "Observation in Constructive Empiricism", in Contributed Papers; 8 World Congress of Logic, Methodology and Philosophy of Science. Moscow: Nauka, 1987. Vol. 4, Part 1, Pp: 131-135.
- + "History and the search for rationality in physics"; in Les relations mutuelles entre la philosophie des sciences et l'histoire des sciences. Bruxelles: Institut des Sciences Theoriques, 1985/1987. Pp: 101-114;
- + "La verdad empirica y la lectura esceptica de la historia de la ciencia", SOFIA 1986. Mexico: Univ. Autonoma de Mexico. Pp: 95-112.
- + "Toulmin y el Modelo Darwiniano del Entendimiento Humano" in Evolution, Mensch und menschlichkeit. Tubingen: Institut fur Wissenschaftliche Zusammenarbeit, 1986. Pp: 377-389.
- + "Quantum mechanics and property ascription", in Contributed Papers; 7 World Congress of Logic, Methodology and Philosophy of Science, Salzburg 1983. Salzburg: Huttegger OHG. Vol 4, pp: 24-28.
- + "What conditions is physics expected to fulfil in order to provide bases for 'Weltanschauungen'?" in La Physique Peut-Elle Encore Inspirer Une Weltanschauung d'Importance Culturelle?; V. Cauchy (ed.). Montreal: Univ. de Montreal, 1983. Pp: 15-22; also in Philosophy & Culture V5: 204-208. Montreal: Ed. Montmercy.
- + "Quantum Holism", Segundo Simposio Internacional de Filosofia. Mexico: Univ. Autonoma de Mexico, 1982/88. Vol I, pp: 165-194.
- + "Las ciencias naturales y los valores", Critica, Mexico, XIV (1982). Pp: 115-130.
- "¿Hacia Donde Va la Física?". In Cielo Abierto, Lima (1982), pp. 48-54.
- + "En defensa de las apariencias"; Primer Simposio Internacional de Filosofia. Mexico: Univ. Autonoma de Mexico, 1981/1983. Vol II, pp: 217-250.
- \*- "Caracter empirico y significacion local de los predicados científico-naturales", II Jornadas Cientificas. Lima: Univ. Peruana Cayetano Heredia, 1980. Pp: 20-23.
- "La perspectiva filosofica de la tecnologia", II Jornadas Cientificas. Univ. Peruana Cayetano Heredia, 1980. Pp: 24-27.
- \*- "El lenguaje del mundo", in J. Munoz (ed) Las Ciencias Naturales y la Concepcion del Mundo de Hoy. Lima: Editorial Inca, 1979. Pp: 121-138.
- + "L-dependent optical model potentials"; Physics Letters (1977) 68B, pp: 213-217. With R.S. Mackintosh.

**(C,D) EXHIBITIONS**

Not Applicable

**(E) SELECTED ORAL PAPERS AND ADDRESSES**      **Refereed addresses indicated with (\*). Invited addresses indicated with (\*\*)**

(\*\*) “Quantum Non-locality”, as part of *A Tribute to Ernst Specker*, X International Congress of Ontology, San Sebastian, Spain, October 2012.

(\*\*) “Realism and the Growth of Theoretical Knowledge”, X International Congress of Ontology, San Sebastian, Spain, October 2012.

(\*\*) “Interés de la Filosofía de la Ciencia en América Latina”. Lecture following reception of honorary doctorate by Universidad Nacional Mayor de San Marcos, Lima-Peru, July 2012

(\*\*) “Interpretaciones Instrumentalistas y Realistas en Torno a la Ciencia Contemporánea”, Universidad Peruana Cayetano Heredia, Lima-Peru, July 2012

(\*\*) “Vigencia del Realismo Crítico”, Pontificia Universidad Católica del Perú, Lima-Peru, June 2012.

(\*\*) Lecture Series: “La Recepción Crítica de la Obra de Darwin,” Universidad Nacional Mayor de San Marcos (Faculty of Letters), Lima-Peru, June-July 2012.

(\*) “Theory-Parts for Realists”. Athens, Greece, October 2011.

(\*) “Accumulation of Theory-parts and Meaning Variance”, Nancy, France, July 2011

(\*) “Conversations across Theory Change”, Thessaloniki, Greece, July 2011

(\*\*) “Sobre la Verdad Científica”, Universidad Peruana Cayetano Heredia, Lima, Peru, July 2011

(\*\*) International Lecture Series: “Science & Reality”. Universidad Nacional Mayor de San Marcos / Museo Nacional de Historia Natural, Lima, Peru, June, 2011.

(\*\*) “Explicaciones Darwinianas y Realismo”, The Pontifical Catholic University of Peru, Lima, Peru, June 2011.

(\*) “Explanatory Elucidation”, Louvain la Neuve, April 2011.

(\*\*) “Hopes for Scientific Realism?” Dept. of Philosophy, University of Bristol, December 2010.

(\*\*) “Explanatory Elucidation and Scientific Realism”; Dept. of Philosophy, University of Oxford, England, November 2010.

(\*) “Scientific Realism and the *Divide et Impera* Strategy: The Ether Saga Revisited; Philosophy of Science Association, November 2010.

“How to Save the DEA Strategy”, TTT/ Centre for Philosophy of Natural and Social Science, London School of Economics, London, England, October 2010.

(\*\*) Debate: “Philosophy and the Origin of Science”, Centre de Cultura Contemporània de Barcelona, October 2010.

- (\*\*) “Science as a Contemporary Philosophical Project”; *IX International Congress of Ontology*, San Sebastian, Spain, September 2010.
- (\*) “Predictive Power and the Hermeneutic Circle”; in *Science and Interpretation*; Zadar, Croatia, September 2010
- (\*\*) Plenary Session: “Theorizing and the Weight of Received Metaphysics”, *1st Latin American Conference of the International History, Philosophy, and Science Teaching Group (IHPST-LA)*; Maresias, San Sebastiao, Brazil, August 2010.
- (\*\*) “Los Valores Epistémicos en la Física del Siglo XIX”. Universidad Peruana Cayetano Heredia, Lima-Perú, August 2010.
- (\*\*) International Lecture Series: “From Galileo to Einstein”. Universidad Nacional Mayor de San Marcos at the National Museum of Natural History, Lima-Peru, August 2010.
- (\*\*) “The Case of the Luminiferous Ether Revisited”, London School of Economics, *Sigma Series*, December 2009.
- (\*\*) “Darwin’s Theory and Prediction”, Academie Internationale de Philosophie des Sciences, November 2009.
- (\*\*) “El Impacto Social, Científico y Filosófico de la Teoría de Darwin”, Universidad Nacional Mayor de San Marcos, Lima, June 2009.
- (\*\*) “La Teoría de Darwin”, Universidad Nacional Federico Villareal, Lima, July 2009.
- (\*\*) Tertulia Científico-Filosófica: “Doscientos Años Después de Darwin”, Universidad Peruana Cayetano Heredia, Lima, July 2009.
- (\*\*) “La Teoría de Darwin, Aventura Epistemológica”, Incorporation Lecture: Academia Nacional de Ciencias del Perú, Lima, July 2009.
- (\*\*) “On the Qualitative Infinity of Nature”, VIII International Ontology Congress, San Sebastian, Spain, October 2008.
- (\*) “Inter-Theory Relations: The Human and Natural Sciences Today”, Conference on the Human and Natural Sciences, Trento and Rovereto, Italy, September 2008.
- (\*) “Diachronic Local Realism”, XXII World Congress of Philosophy, Seoul, Korea, August 2008.
- (\*\*) “La Verdad en las Ciencias”. I Coloquio Peruano de Filosofía Analítica; 1ª Parte, Pontificia Universidad Católica del Perú, Lima, Junio 2008.
- (\*\*) “El Fisicalismo y las Ciencias”. Tertulia científico-filosófica en La Universidad Peruana Cayetano Heredia, Lima, Julio 2008.
- (\*\*) “Psychological Time and the Foundations of Physics”. Chateau a Cerisy-la-Salle, France; October 2007.
- (\*) “Retrospective Realism”. 13<sup>th</sup> International Congress of Logic, Methodology, and Philosophy of Science. Beijing, China; August 2007.
- (\*\*) “Contemporary Science and the Conception of Human Nature”. Universidad Peruana Cayetano Heredia, Lima, Peru, June 2007.
- (\*\*) “On Realism & Pragmatism”. “Putnam at 80”; Dublin, Ireland, March 2007.
- (\*\*) “Scientific Discovery: An Evolving Complex System Perspective”. Seminar of Education as a Complex System; INVALSI, Frascati (Rome), Italy, December 2006.

- (\*\*) “Many Worlds: Extravagant but not Terminally Incoherent”. Philosophy of Science Association, Biennial Meeting, Vancouver, Canada, November 2006.
- (\*\*) “Possibility, Actuality, and Probability in Many Worlds Quantum Mechanics”. VII International Ontology Congress, San Sebastian, Spain, October 2006.
- (\*\*) “Naturaleza y Cultura: Un Intento de Visión Contemporánea”. Conferencia Magistral, Casa Museo Mariátegui, Lima, Agosto 2006.
- (\*\*) “Scientific Creativity and Education: A Systems Theory Approach”. Conference of “Complexity in Education”; INVALSI, Frascati (Rome), Italy, February 2006.
- (\*\*) “Plenary Session on the Philosophy & History of Science” (with L. Laudan and J. Mosterín). II Ibero-American Congress of Philosophy of Science & Technology. Tenerife, Spain, September 2005.
- (\*\*) “Epistemology and 'The Social' in Contemporary Science”. Colloquium on Epistemology & The Social, Universidad de La laguna, Tenerife, España, September 2005.
- (\*) “Scientific Realism, One Sector at a Time”. 5th European Congress of Analytic Philosophy (ECAP 5), Lisbon, Portugal, August 2005.
- (\*) “ ‘Many Worlds’ and the Concept of Probability”. Philosophy, Probability, and Physics: 4th International Summerschool on Philosophy and Probability. University of Konstanz, Germany, August 2005.
- (\*) “Einstein, la Ciencia y la Filosofía”. Universidad Peruana Cayetano Heredia, Lima-Perú, July 2005.
- (\*) “Einstein y el Desarrollo del Pensamiento Científico”. Tertulia, Casa Mariátegui, Lima-Perú, July 2005.
- (\*) “Educación Científica y Desarrollo”. Día del Maestro / Coordinadora Nacional de Independientes. Lima-Perú, July 2005.
- (\*) “Contemporary Nativism, Scientific Texture, and the Moral Limits of Free Inquiry”. Philosophy of Science Association, Biannual Meeting, Austin, Texas, November 2004.
- (\*\*) “Michael Devitt on Realism”. The New Jersey Philosophy Association. Lodi, NJ, Felician College; November 2004.
- (\*\*) “Nature, Science, and the Opening on Mind”. San Sebastian, Spain; October 2004.
- (\*\*) “On the Modern Denial of Human Nature”; Round Table Discussion. Bilbao, Municipal Library; October, 2004.
- (\*\*) Human Nature, Civilization, and the Allure of Barbarism”. Lima, Peru; Universidad Ricardo Palma; June 2004.
- (\*\*) “Science and the Value of Science”. Lecce, Italy, October, 2003.
- (\*) “Science & Common Sense”. 21st World Congress of Philosophy, Istanbul, Turkey; August, 2003.
- (\*\*) “Philosophical Science Today”. Universidad Cayetano Heredia, Lima-Peru; July, 2003.
- (\*\*) Mini-Course on “The Project of Classical Physics One-Hundred Years After the Birth of Quantum Mechanics”. Institute for Philosophical Investigations, UNAM, Mexico; June, 2003.
- (\*) “Reflections on Two Medieval Bestiaries”. Opening of the 2002/2003 Academic Year, Universidad

- Internacional de Andalucía, Seville; also presented at ARTELEKU, San Sebastian; Spain, October, 2002.
- (\*) "The Open Society and its Friends". Institute for Advanced Studies of the Peruvian Police Academy, Lima-Peru; August, 2002.
  - (\*) "The Realism/Anti-realism Debate: Some Lessons from Artificial Intelligence". La Sorbonne, Paris; June 2002.
  - (\*) "Science and the Opening of Mind". International Conference on Science Education. Denver, Colorado, November 2001.
  - "Science and the 'Possible'". Imagenes de la Ciencia. Lima, August, 2001.
  - "Emergence in Physics". International Conference on Complexity and Emergence, Bergamo, Italy, May, 2001.
  - \*\*"Properties in the GRW Approach". History & Philosophy of Science Colloquium, University of Maryland at College Park, March, 2001.
  - \*\*"Observaciones Acerca de la Cultura en el Siglo XXI. (Réplica a Ignacio Ramonet y Joan Subirats). Conferencia Anual de Ejecutivos 2000-2001, Lima, Peru; January, 2001.
  - \*\*"La Ciencia y la Naturalización de la Filosofía Contemporánea"; Simposio Internacional sobre la Ciencia, la Filosofía y la Etica. Universidad Ricardo Palma, Junio, 2000.
  - \*\*"Realism and Underdetermination: Some Clues From the Practices-Up". Biennial Meeting of the Philosophy of Science Association, Vancouver, Canada, November, 2000.
  - \*\*"Naturalism as a Contemporary Philosophical Perspective". International Congress of Ontology, Madrid & San Sebastian, October, 2000.
  - \*\*"On the Search for Scientific Unity"; International Symposium on The Unity of Science, Copenhagen & Arrus, May, 2000.
  - \*\*"Toward an Integrated View of Scientific Culture and Public Education". Opening Address, International Congress on Science Education, Como, Italy, October 1999.
  - \*\*"The Rise of Mechanical Explanations in 18th-century Natural Philosophy". Short series given at Universidad Peruana de Ciencias, Lima, August 1999.
  - \*\*"Quantum Theory and its Empirical Underdetermination. Invited Paper, World Congress of Mulla Sadra (Section on Contemporary Natural Philosophy), Tehran, Iran, June 1999; 23p.
  - \*\*"Quantum Theory Does not Need an Alternative Logic". Symposium on Alternative Logics. Salzburg, Austria, May 1999.
  - \*\*"Are GRW Tails as Bad as They Say?", in Don A.Howard (ed.). Philosophy of Science Association Biennial Meeting; Kansas City, MO, October 1998.
  - \*\*"Quantum Physics and Ontology". III International Congress of Ontology; San Sebastian, Spain, October 1998.
  - "Physics and the Underdetermination Thesis: Some Lessons from Quantum Theory". Invited Address: Twentieth World Congress of Philosophy. Federation Internationale de Societes de Philosophie & Boston University, August 1998

- \*”La Ciencia y la Subversión de 'Imposibles' Recibidos”. Universidad Peruana Cayetano Heredia; Lima, Junio 1998.
- ”Culture and Cuisine in Peru”. Presentation essay, Peruvian Cultural Festival. New York: Peruvian Mission to the United Nations, October 1997.
- ”Metaphysics and Contemporary Science”. Phi-Beta-Kappa Distinguished Lecture. October 1997.
- \*”From the Aristotelian Spheres to Quantum-mechanical Action”. Symposium on Aristotle and Science. Tessaloniki University, Greece, August 1997.
- ”La Ciencia y la Filosofía en el Perú”. National Congress of Philosophy Students; Lima, Peru, July 1997.
- \*”How Science Differs from Technology”. Symposium on the Philosophy of Technology; Karlsruhe, Germany, May 1997.
- (\*\*)”¿Qué es Pensar Científicamente?” Tertulia Filosófica, Museo Casa Mariátegui. Lima, Perú, August, 1996.
- ”La Objetividad Acerca del Pasado”. With Dr. Gary Lock (Oxford). Talk and debate on the epistemology of Archeology. Programa Pensamiento Científico, UPCH, Lima, Perú, August, 1996.
- Series on “Space, Time, and Substance in Contemporary Science”. UPCH, Lima, Perú, August, 1996.
- (\*)”The Spirit of Ancient Greek Philosophy and the Foundations of Contemporary Physics”. Conference on Ancient Philosophy and Contemporary Thought, Rethymno, Greece, October, 1995.
- (\*)”A GRW-Like Approach to the Measurement Problem”; 10th International Congress of Logic, Methodology and Philosophy of Science. Florence: International Union of History & Philosophy of Science, Florence, Italy, August, 1995.
- (\*\*)”Three Quantum Ontologies”. Course on Relativity and Quanta, Universidad Peruana Cayetano Heredia, Lima, Peru, August, 1995.
- (\*)”Convergences and Divergences in the Foundations of Quantum Theory”, International Congress on Scientific Thought, Lima, Peru, August, 1995.
- (\*\*)”La Ciencia y los Valores Humanos: Notas Históricas”. Simposio sobre Humanismo, Universidad Peruana de Ciencias Aplicadas, Lima, Peru, July, 1995.
- (\*)”Rival Theories Without Observable Differences”, Symposium on Observability, Unobservability and their Impact on Scientific Realism; Parma, May, 1995.
- (\*\*)”The Foundations of Quantum Theory”. Series of 12 lectures, Universidad Nacional Mayor de San Marcos, Lima, July-August 1994.
- (\*\*)”The 'Natural World' in History”. Introductory talk to Dr. J.A. Black's British Academy course “El Mundo Natural en la Antigua Mesopotamia”, Universidad Peruana Cayetano Heredia, Lima, July 1994.
- (\*)”Realidades Ocultas a la Observación”. Plenary Paper, 13th Interamerican Congress of Philosophy, Bogotá, July 1994.
- (\*)”Resonance Fluorescence for Philosophers”, Department of History & Philosophy of Science, Cambridge, June 1994.

- (\*)"Scientific Hypotheses". Symposium Henri Poincaré, Nancy, France, May, 1994.
- (\*\*)"Darwin and the Philosophy of Science", Special Lecture. Evolutionary Biology Exhibition, Universidad Peruana Cayetano & Banco Wiese, Lima, May 1994.
- (\*)"On the Collapse of the Wave Function." Department of History & Philosophy of Science, University of Cambridge, January 1994.
- (\*\*)"Consequentialist Strategies in Contemporary Moral Philosophy." Universidad Femenina del Sagrado Corazón, Lima, November, 1993.
- (\*)"Aesthetics and Gastronomy," in Lectures on Gastronomy, Culture and Society; Universidad de Lima, November, 1993.
- (\*\*)Six Lectures on the Philosophical Implications of Relativity Theory. Pontificia Universidad Católica del Perú, Lima, October-November, 1993.
- (\*\*)"The Persistence of Truth: 500 Years After Paracelsus," in Colloquium in Celebration of Paracelsus. Universidad Cayetano Heredia, Lima, November, 1993.
- (\*)"Dimensions of Understanding." Sociedad Peruana de Filosofía, Lima, October, 1993.
- (\*)"Two Conceptions of Liberty," Law Faculty; Universidad de Lima, October, 1993.
- (\*)"What Lies Behind the Scientific Acceptance of Hidden Entities?" Presented in the 1993 Meeting of the Swiss Association for the Philosophy of Science and the Ferdinand Gonseth Association, Bienne, Switzerland, June, 1993.
- (\*)"Empirical Science and Ontological Commitment." Conference on the Present Status of Mathematics, Budapest, Hungary, May, 1993.
- (\*\*)"Recent Stochastic Revisions of Quantum Theory." Course of Lectures & Seminar. Sub-Faculty of Philosophy, University of Oxford. Hilary Term, 1993.
- (\*\*)"Advancing the Foundations of Physics From the Practices-Up." Short Course. Departments of Philosophy and Physics, Universidad de Salamanca, Spain. December, 1992.
- (\*\*)"Philosophy and the World of The Magic Flute. Galería Borkas, Lima, September, 1992.
- (\*\*)"History and the Conception of Knowledge." Universidad Cayetano Heredia, Lima, September, 1992.
- (\*)"Naturalism vs Quineanism." Presented in the 1992 Meeting of Sociedad Ibero Americana de Filosofía; Gainesville, Fla, May 1992.
- (\*)"Properties Revisited." Columbia University Seminar on History & Philosophy of Science; November 1991.
- (\*)"Two Kinds of FAP Reasoning in Quantum Theory." International Congress of Logic, Methodology and Philosophy of Science; Uppsala, August 1991. (In absentia)
- (\*)"Two Ways of Advancing a Theory." Main Program, American Philosophical Association, San Francisco, March 1991.
- (\*\*)"Recent Developments in the Foundations of Quantum Theory." Physics Colloquium, Queens College, CUNY, March 1991.



- (\*)"Concepts of Latin American Identity", Georgetown University, Washington, D.C., February 1991.
- (\*\*)"Concepts of Understanding in Contemporary Physics." History & Philosophy of Science Colloquium, Brooklyn College, New York, November 1990.
- (\*)"State Reduction From the Practices-Up." Biennial Meeting of the Philosophy of Science Association, Minneapolis, October 1990.
- (\*\*)"Galleries and the Rhetoric of Culture in Contemporary Lima: The 1980s." New York presentation of the novel La Galeria by the Peruvian artists Borkas, Mestres and Servat. Center For Inter-American Relations, New York, October 1990.
- (\*)"Reductive and Non-Reductive Naturalism;" Symposium on Cognitive Studies, Universidad of Campinas, Sao Paulo, July 1990. (In absentia.)
- (\*)"Science versus Wisdom?"; Universite de Fribourg, Switzerland, May 1990.
- (\*)"The Search for an Adequate Stochastic Revision of Quantum Theory." History and Philosophy of Science Seminar, Columbia University, New York, April 1990.
- (\*)"Properties in the Aftermath of the Bell experiments and the Kochen/Specker Theorem"; Ahranov-Bohm Conference, Univ. of South Carolina, Columbia, December 1989.
- (\*)"Philosophy of Science and Science Teaching"; Florida State Univ., Tallahassee, November 1989.
- (\*)"Acumulacion, Superioridad y Progreso Cientifico". Invited Paper, X Congreso Nacional de Filosofia, Xalapa, Mexico, October 1989.
- (\*\*)"Trends in Informalist Philosophy of Science". Universidad Veracruzana, Mexico; October 1989.
- (\*\*)"Razon y Libertad". Centro de Estudios Democr%' Lima, Agosto, 1989.
- (\*)"Evolutionary Ideas and the Philosophy of Science". Plenary paper. Conference on the Origin and Evolution of the Universe and Mankind, Lima, August 1989.
- (\*\*)"Problemas Filosoficos de la Mecanica Cuantica". R%' + orkshop, Lima, August 1989.
- (\*\*)"Naturalism, Internalism, and the Search for a New Philosophy of Science". Invited Paper, XII Interamerican Congress of Philosophy, Buenos Aires, July 1989.
- (\*)"Working-level Science and the Individuation of Scientific Theories". American Philosophical Association, Main Program, Chicago, April 1989.
- (\*)"Three Latin American Humanists". Georgetown University, Washington, D.C., March 1989.
- (\*)"Background Information and the Development of New Ideas: The Copenhagen Family of Theories". Univ. of North Carolina, Greensboro, March 1989.
- (\*)"Varela, Filosofo y Maestro Libertario", Library of Congress, Washington, D.C., November 1988.
- (\*\*)"Some Problems with the Copenhagen Interpretation"; Long Island Philosophical Association, November 1988.
- (\*)"Toward a Post-Bell Quantum Dynamics"; Symposium on the Philosophical Impact of Bell's Theorem; George Mason University, Virginia, October 1988.

- (\*)"Quantum Measurement: New Lights?", 13th International Wittgenstein Symposium; Kirchberg, August 1988.
- (\*\*)"Science and the Discovery of Rationality"; Round Table (with E. Agazzi, M. Bunge and J. Ladriere); World Congress of Philosophy, Brighton, August 1988.
- (\*)"Does Quantum Mechanics Call for a Metaphysics?", Bologna's 9th Centennial Colloquium in Natural Philosophy, May 1988.
- (\*\*)"The Nature of Quantum Paradoxes", presentation of the book by the same title edited by G. Tarozzi and A. van der Merwe; Cesena, May 1988.
- (\*\*)"On the 'Evolutionary Paradigm'", Symposium on Evolutionary Biology, Queens College, CUNY, New York, April 1988.
- (\*)"Trends in 20th century Latin American Philosophy", History of Ideas Seminar, Georgetown Univ., Washington, D.C., February 1988.
- (\*)"Contemporary Physics and the Demise of Classical Compositionism." History & Philosophy of Science Seminar, Columbia Univ., New York, January 1988.
- (\*\*)"On the Intelligibility of Quantum Mechanics"; Graduate Center, CUNY; Philosophy Colloquium. New York, December 1987.
- (\*\*)"Science and Truth". Anniversary Series, Queens College, CUNY, New York, November 1987.
- (\*)"Philosophy and Ideas in Contemporary Peru"; Symposium on Peruvian Literature, Univ. of Maryland, 1987.
- (\*\*)"Science vs Van Fraassen"; Univ. of New Mexico, 1987.
- ("Some Problems with Constructive Empiricism"; Queens College, CUNY & the Maryland Philosophy Colloquium, 1987.
- (\*)"Philosophical Analysis in Latin America"; Symposium on Latin American Thought, Univ. of the District of Columbia, Washington D.C., October 1987.
- (\*)"Van Fraassen on Observation"; 8th World Congress of Logic, Methodology and Philosophy of Science, Moscow, August 1987.
- (\*)"Bell mysteries", Academie Internationale de Philosophie des Sciences, Naples, May 1987.
- (\*\*)"Peruvian Cooking Styles From a Historical Perspective", Peruvian Embassy, Washington, D.C., 1987.
- (\*)"The Bounds of Law": Universality and Exactness in Physics; Phil. Seminar, Univ. of Virginia and The CHPS Colloquium, Maryland, 1986.
- (\*\*)"What is Culture?"; The Latinamerican Association, Washington, D.C., 1986.
- (\*\*)"Whewell and the Debate Over Methodology: a reply to Prof. P.Achinstein's "19th c theories of light" "; 1986 Maryland & Johns Hopkins Colloquium.
- (\*)"La Historia y el Desarrollo de la Ciencia." Colloquium of the Ibero-American Society, Guadalajara, 1985
- (\*\*)"Physics and Philosophy" (short series of lectures); Univ. of South Carolina, Columbia, 1985.

- (\*\*)"On Description": Graduate Club, Maryland, 1985.
- (\*)"Does Science Tell the Truth?", Harvard Faculty Club; Spring 1984
- (\*)"Retrodiction in Putnam's Philosophy of Quantum Mechanics"; Conference on the Foundations of Quantum Mechanics; SUNY-Albany, Spring 1984
- (\*\*)"Epistemology and Science" (series of lectures and seminars); Panamerican Health Organization, Washington, D.C., Summer 1984
- (\*)"Chance and Quantum Mechanics"; Committee on the History & Philosophy of Science [CHPS] Colloquium, Maryland, 1984.
- (\*\*)"Beyond Hume and natural necessity"; Reply to papaer by Prof. A.Schlagel; Washington Philosophy Club, 1983
- (\*)"Philosophy and Quantum Mechanics"; CHPS Series, Maryland Univ., 1983
- (\*)"Impacto Filosofico de la Teoria de Darwin", Univ. de la Amazonia, Iquitos, 1983
- (\*\*)"Popper y el Positivismo", Lectures on Contemporary Thought. Univ. de Lima, 1982
- (\*)"On Science and Values." X Interamerican Congress of Philosophy, Florida, 1981.
- (\*)"Percepciones Populares de la Ciencia." Workshop on Science and Journalism, Instituto de Estudios Avanzados, Caracas, 1981.
- (\*)"Un Holismo Empirico." Second International Symposium of Philosophy, Oaxaca, 1981.
- (\*)"Fisica y Filosofia"; Univ. Nacional de Huamanga, Ayacucho, 1981
- (\*\*)"El Conocimiento y las Ciencias Naturales". Univ. de Lima, 1981
- (\*\*)-"Problemas Filosoficos del Tiempo y el Espacio", Univ. de Lima, 1980.
- (\*)"En Torno a los Alcances y Limites del Lenguaje Cientifico." First International Symposium of Philosophy, Queretaro, 1980.
- (\*)"Reduccionismo y emergencia." Conferencias Inaugurales, Instituto de Investigaciones Filosoficas, Univ. de Lima & Univ. Peruana Cayetano Heredia, 1980
- (\*)"El lenguaje de las ciencias"; Univ. Sn Antonio Abad, Cuzco, 1980
- (\*)"Presupuestos de la teoria de la relatividad", Einstein Centennial Conferences, Lima 1979

## **(F) REPORTS AND OTHER WORKS**

- Report on Improving Research Activities in CUNY. Collaborative document for PSC-CUNY & The CUNY Research Foundation, New York, 2006.
- Referee for the journal Critica, since 1998.
- Specialist Project Reviewer: National Science Foundation. For: reports on major grants in the foundations of physics. Various, since 1995.

- Specialist Project Reviewer: National Endowment for the Humanities. For: reports on major grants in the history & philosophy of physics. Various, since 1991.
- On higher education for the next century: “Educación Superior y Desarrollo”. Published by Conferencia Anual de Ejecutivos (CADE), Lima, Perú, 1996.
- Member of the Philosophy Panel, National Endowment for the Humanities. For: reports on summer stipends, 1992.
- Specialist Project Reviewer: CONACIT, Mexico (Mexican National Council for Science & Technology). For reports on major grants in the foundations of physics. 1990-present.
- Referee for the journal Foundations of Physics. Various, since 1995.
- Referee for the journal Science & Education. Since 1993.
- Referee for the journal Philosophy of Science. Various, since 1990.
- Referee for the journal Synthese. Various, since 1989.
- “Feasible projections of the American University system in Latin America: A pilot project for scholastic cooperation”; with David Gruender, Florida State Univ., 1986.
- “Proyecto: ciencias exactas para las ciencias de la salud en Latinoamérica”, Panamerican Health Organization, 1983.
- “Ante-Proyecto de Ley: Instituto del Peru”; Presidency of the Republic, Peru, 1982.
- “Diagnostico del estado de las investigaciones en epistemologia, logica y matematicas en el Peru”, Peru's National Council for Science and Technology (CONCYTEC), Lima 1981.

## **(G) GRANTS & FELLOWSHIPS**

- The Research Foundation CUNY: PSC-CUNY Award (2012-2013): Research in Cambridge-England.
- The Research Foundation CUNY PS-CUNY Award (2010-2011): Time release (one unit)
- The Research Foundation CUNY PS-CUNY Award (2010-2011): Time release (one unit)
- Service Research Grant from The Research Foundation CUNY. 2004-2008
- Grant from The Research Foundation CUNY. 2002-2003. For investigation “J.C. Maxwell’s Natural Philosophy: Maxwell on Scientific Representation”.
- Grant from The Research Foundation CUNY. 2000-2002. For investigation “A Partial-Realist Approach to the Problem of Underdetermination in Objectivist Physics.
- Grant from Research Foundation, Award, CUNY, 1996-97: For investigations concerning the testability of stochastic formulations of non-linear quantum theory (B).
- FIPSE Grant, Mentors Program, Queens College, CUNY; Spring 1996. For tutorial course linked to the production of a materials on the philosophy of relativity and quanta.

- Grant from Research Foundation, Award, CUNY, 1995-96: For investigations concerning the testability of stochastic formulations of non-linear quantum theory (A).
- Grant from National Science Foundation Award, 1995-96: For CUNY-LIMA International Program of Courses & Research Workshops on Scientific Thought.
- Grant from FIPSE Award, Queens College, CUNY; Summer 1995. For allowing a team of students to participate in international courses & workshops organized by the undersigned in Lima, Peru.
- Grant from Guggenheim Fellowship 1993/94. Academic year 1993/94.
- All Souls College, University of Oxford, England: Visiting Fellowship (non-stipendiary honor), 1993.
- Grant from National Science Foundation, 1992-93: For investigations of state-reduction processes presupposed in applied quantum mechanics.
- Grant from Research Foundation, CUNY, 1992-94: For investigations concerning recent stochastic formulations of non-linear quantum theory.
- National Endowment for the Humanities, Summer Research Award, 1991/92: For studies of the concept of objectivity in quantum physics.
- Queens College, Presidential Research Award, Semester released from teaching duties. Fall 1990.
- Research Foundation CUNY, Creative Incentive Award, 1989.
- Grant The National Science Foundation & Queens College, CUNY. For Summer School & Research Workshops on the Natural Sciences and their Foundations I. Lima, Peru, 1989.
- Fulbright Fellowship Grant. Philosophy of Science. 1983.
- Grant from Consejo Nacional Ciencia y Tecnología, Perú. For 1er Coloquio Internacional de Filosofía e Historia de la Ciencia (“Charles Darwin”), Lima, 1982.
- Goethe & Internationes Grant: Winter 1982. Room & Board in Germany.
- German Cultural Services. Grant for Conferencia “La Critica de la Razon Pura”, Lima 1981.
- Universidad Cayetano Heredia, Lima. Grant for International Symposium: Language, Science and Reality; Lima/Cuzco, 1980.
- Grant from Hoechts Laboratories. For Conferencia “Perfiles del Hombre”, Lima, 1980.
- Grant from The Goethe Institute, Peru. For Conferencias Albert Einstein, Lima 1979.
- Ford Foundation Research Grant, Lima, Peru. 1978.

#### **OTHER SERVICE TO THE PROFESSION**

- Chairman of the Natural Philosophy Chapter, World Congress of Philosophy, Turkey, 2003.
- Member of the Congresses Committee, Federation Internationale de Societes de Philosophie (FISP). 1993-97.

- Organization & executive coordination of: The Natural World in Ancient Mesopotamia. British Academy Lectures, with Dr Jeremy Black et al., Lima, 1994.
- Session Chairman (Philosophy of Science), 1993 World Congress of Philosophy, Moscow.
- Advisor to the Chancellor (ad honorem). Universidad Peruana de Ciencias Aplicadas, Lima, Perú. 1993-present.
- International Advisor (ad honorem). Graduate School, Universidad Nacional Mayor de San Marcos, Lima, Perú. 1992-present.
- Chairman, Columbia University Seminar for the History & Philosophy of Science. 1991-1992.
- Pilot project co-director: "Feasible projections of the American University system in Latin America: A project for scholastic cooperation"; with David Gruender, Florida State Univ., 1986.
- Project Director: Ciencias exactas para las ciencias de la salud en Latinoamérica", Panamerican Health Organization, 1983.
- Member of the Presidential Committee for "Proyecto de Ley: Instituto del Peru"; Presidency of the Republic, Peru, 1982.
- Director of Committee for "Diagnostico del estado de las investigaciones en epistemologia, logica y matematicas en el Peru", Peru's National Council for Science and Technology (CONCYTEC), Lima 1981.

#### **SERVICE TO COMMUNITY (Last five years only)**

- Member of the Board (ad honorem). Tennis View Apartments Corporation. 1995-1997.
- Honorary Media Observer to the United Nations for Diario 7 Sunday Cultural Supplement, "El Comercio", Lima, Perú (ad honorem) 1989-1995.

#### **PROFESSIONAL AND ACADEMIC SOCIETIES**

- Philosophy of Science Association
- Sociedad Peruana de Filosofía
- Sociedad Filosofica Ibero-Americana
- The Codrington Club, Oxford
- The British Society for the Philosophy of Science
- Oxford Society
- Cambridge Society
- Antiqui Soc. Iesu Alumni