

# **CURRICULUM**

**Gennaro AULETTA**

*born 1957, on the 27<sup>th</sup> August  
in Naples  
italian citizen  
married to Mathilde Anquetil  
two childrens: Leo and Margot*

*address: Piazza Verbano, 8  
00199 Roma — Italy  
e-mail: auletta@unigre.it  
www.gennaroauletta.net*

## **1. EDUCATION AND POSITION**

|           |   |
|-----------|---|
| 2007      | Scientific Vice-coordinator of the STOQ Project.  |
| 2003      | Scientific Director of the specialization “Science and Philosophy”, Gregorian University (Rome).  |
| 2001      | Admitted to the list for <i>Maître de conférences</i> (France) for Epistemology and history of sciences and techniques.                       |
| 1995-1997 | <i>Post-doc</i> in Philosophy, <i>La Sapienza</i> University (Rome).  |
| 1993      | PhD in Philosophy, <i>La Sapienza</i> University (Rome) with a thesis about “Leibniz’s Philosophy of modalities”.                             |
| 1986      | First degree in Philosophy, <i>La Sapienza</i> University (Rome). Thesis about “The philosophical debate between Th. Adorno and W. Benjamin”. |
| 1985      | <i>Grosses Deutsches Sprachdiplom</i> , <i>Goethe-Institut/ Ludwig-Maximilians-Universität of München</i>                                     |

## 2. TEACHING ACTIVITY

|           |  |
|-----------|--|
| 2004-     | <ul style="list-style-type: none"> <li>• Lecture on logic at the University of Cassino.</li> <li>• Lecture on History of Medieval Philosophy at the University of Urbino</li> </ul>  |
| 2003-     | <ul style="list-style-type: none"> <li>• Regular teaching activity, Specialization in "Science and Philosophy", Gregorian University.</li> <li>• Regular teaching activity, Scuola di specializzazione of Cesena.</li> </ul>   |
| 2002      | <ul style="list-style-type: none"> <li>• Lecture on Quantum Mechanics and lecture on Leibniz, Ecole Normale Supérieure, Lyon</li> <li>• Lecture on “Modularism and Developmentalism” at the Scuola Internazionale di Filosofia e storia della Biologia e della Medicina (23th-27th Sept., Nettuno).</li> </ul> |
| 2001      | <ul style="list-style-type: none"> <li>• Seminar on “Critical Examination of Classical Mechanics in the Light of Quantum Physics”, Scuola di specializzazione of Cesena.</li> <li>• Seminar on “Individual Systems, Correlations, ontological relativity”, CNRS Paris</li> </ul>                               |
| 2000-2003 | Lecturer of History of Science, Urbino University (Italy).   |
| 2000      | Seminar on “Measurement theory in Quantum mechanics”, Scuola di specializzazione of Cesena.  |
| 1999-2001 | Lecturer at the Philosophical Institute of the <i>Gregoriana</i> University of Classical Mechanics and Quantum Mechanics.  |
| 1999      | Lectures at the Physics Department of the University of Lecce on Positive Operator Valued Measure, Open Systems and Measurement theory in Quantum Mechanics” and on “Algebraic Analysis of Quantum Non-Locality”.  |
| 1997-2003 | Lecturer of Philosophy of Nature, <i>S. Anselmo</i> University and <i>Antonianum</i> University.   |
| 1996-2003 | Lecturer of History of Nordamerican Philosophy and History of Late Middle-Age Philosophy, <i>S. Anselmo</i> University.  |
| 1996-1997 | Lecture at the Philosophy Department of <i>La Sapienza</i> University on “Philosophical and Epistemological Lessons of Quantum Mechanics”.   |
| 1995-     | Lecturer of <i>Logics</i> , <i>Antonianum</i> University (Rome).   |
| 1995-1996 | Lecture on the “Quantum postulate and the Complementarity Principle”, Philosophy department of <i>La Sapienza</i> University.  |
| 1991-1995 | Lecturer of History of Modern Philosophy, <i>S. Anselmo</i> University.  |

### 3. CONFERENCES

|      |   |
|------|---|
| 2006 | <ul style="list-style-type: none"> <li>• International Conference about "Science and Theology: The Role of Philosophy", Catholic University of Lublin, 15-16 November.</li> <li>• International Conference about "Science, Civilisations, Cultures" in the Senat of the French Republic, 7 January: "The Lessons of Quantum Mechanics: Towards a New Ontology" (in French)</li> </ul>   |
| 2005 | <ul style="list-style-type: none"> <li>• Conference on Albert Einstein, Cesena 24-26 November: "The Debate Between EPR, Schrödinger, and Bohr, as an Application of Different Forms of Inferences"</li> <li>• Conference on <i>Science and Orodoxy: A Necessary Dialogue</i>, Bucarest 22-26 October: "Event, Covariance, and Evolution: Peirce and Whitehead's Philosophies in the Light of Modern Science"</li> <li>• Workshop at the Gregorian University, Rome 30 Sept.-1 Oct., about <i>The Controversial Relationships between Science and Philosophy: A Critical Assessment: "The Problem of Information"</i>.</li> <li>• Conference on the <i>Philosophical and Foundational Issues in Quantum Theory</i>, 1-5 Sept., Budapest: "The Problem of Information"</li> </ul> |
| 2004 | <ul style="list-style-type: none"> <li>• Conference on the "Pregiudizio a favore del reale: la teoria dell'oggetto di Alexius Meinong", 24-27 Nov., Urbino, discussant of Maurizio Ferraris' lecture on "The Social Objects".</li> <li>• Conference on "Life and Its Origin", 12-14 Nov., Campidoglio (Rome): "A General Theory of Relations".</li> </ul>   |
| 2003 | Conference of Philosophy of Science (Dubrovnik, April), "The Problem of the Categorization Levels: A Pragmatistic Approach".  |
| 2002 | Conference on "How many Copenhagen?" (Cesena, 17th-19th Oct.), "The Complementarity Principle and its Experimental Verification".   |
| 2001 | Fifth Conference of the <i>International Quantum Structures Association</i> (Cesena, March the 31st- April the 5th), "The Fundamental Theorem of Measurement and Critical Examination of MWI and Decoherent Histories".   |
| 2000 | 5 <sup>th</sup> <i>International Conference on Quantum Communication, Measurement and Computing</i> (Capri, 3-8 July).  |
| 1999 | Conference on "Omnimoda determinatio and Individuation", <i>Gregoriana University</i> .   |
| 1998 | <ul style="list-style-type: none"> <li>• Conference on 'Quantum Information', Department of Mathematics of <i>La Sapienza University</i>.</li> <li>• Conference on 'Quantum Information', <i>Gregoriana University</i>.</li> <li>• International Conference in Lecce about <i>The Foundations of Quantum Mechanics</i>, "Measurement, spontaneous transitions and interpretation of Quantum Mechanics".</li> </ul>  |
| 1996 | Conference on "Cartesian <i>cogito</i> ", <i>Antonianum University</i> .  |
| 1991 | International Conference on "Operations mentales et théories linguistiques", University <i>Paris VII</i> , "Semiotics and Mind-Body Problem in Leibniz and Occasionalism".  |

#### 4. CURRENT RESEARCH

|   |
|---|
| Textbook on Quantum Mechanics together with Giorgio Parisi and Mauro Fortunato. |
|---|

|  |
|--|
| Studies about the relationship between feedback in living beings and feedback in intelligent operations and decisions. |
|--|

## 5. PUBLICATIONS

### 5.1 Books

|   |   |
|---|---|
| 8 | <i>Proceedings of the I Workshop on the Relationships Between Science and Philosophy</i> , Vatican, Libreria Editrice Vaticana, 2006, ed.   |
| 7 | <i>Introduzione alla logica</i> , Rome, Antonianum, 2002, 2nd ed. 2004  |
| 6 | <i>Foundations and Interpretation of Quantum Mechanics. A Critical-Historical Analysis of the Problems and a Synthesis of the Results</i> (with a preface of Giorgio Parisi), Singapore, World Scientific, 2000, ps. XXXII + 981; rev. ed. 2001<br><b>Some Reviews:</b> - Alastair Rae, <i>Europhysics Letters</i> , sept.-oct. 2001<br>- Vlatko Vedral, <i>Progress in Quantum Electronics</i> <b>25</b> (2001): 191-92<br>- Gianluca Introzzi, <i>Il nuovo saggiautore</i> (Bollettino della società italiana di fisica) <b>18</b> (2002): 61<br>- Vincenzo Fano, <i>Isonomia</i> - e-magazine - (2002); <i>Epistemologia</i> <b>27</b> : 157-72<br>- Gianluca Introzzi, <i>Foundations of Physics</i> <b>32</b> (2002)<br>- Salvo d'Agostino, <i>Physis</i> <b>39</b> (2002): 373-76<br>- Georg Hülsenbeck, <i>Alpha Omega</i> <b>8</b> (2005):513-515 |
| 5 | G. Rodis-Lewis, <i>Descartes</i> , Calmann-Lévy, 1995, it. ed. and transl. G. Auletta: Editori Riuniti, Roma, 1997  |
| 4 | Theodor G. Bucher, <i>Einführung in die angewandte Logik</i> , Berlin, de Gruyter, 1987, it. ed. and transl. G. Auletta: Clueb, Bologna, 1996.  |
| 3 | <i>Determinismo e Contingenza. Saggio sulla filosofia leibniziana delle modalità</i> (with a preface of Vittorio Mathieu), Morano editore, Napoli, 1994, pp. 228<br><b>Reviews:</b><br>- Gianluca Miligi, <i>La Cultura</i> <b>2</b> (August 1996): ps. 341-45<br>- Paola Vasconi, <i>Bulletin of Società filosofica italiana</i> <b>160</b> (1997): pp. 82-84  |
| 2 | Sylvain Auroux, <i>Barbarie et philosophie</i> , Parigi, Presse Universitaire de France, 1990, it. ed. and transl. G. Auletta: Editori riuniti, Roma, 1993.   |
| 1 | M. Mendelssohn, <i>Jerusalem</i> , Berlin, 1783, it. ed. and transl. G. Auletta: Guida editori, Napoli, 1991.   |

## 5.2 Papers

|    |  |
|----|--|
| 39 | "Quale realtà si può attribuire agli universali?" (Which Form of Reality May Be Attributed to Universal Concepts?), <i>Chora</i> <b>14</b> (2007): 15-20   |
| 38 | "Il dibattito tra Einstein, Bohr e Schrödinger: Causalità, determinazione e azione a distanza" (The Debate among Einstein, Bohr, and Schrödinger: Causality, Determination, and Action-at-a-Distance). <i>Il Protagora</i> <b>9</b> (2007):181-98                |
| 37 | "Information, Semiotics, and Symbolic Systems", <i>Semiotica</i> <b>166</b> (2007): 359-76   |
| 36 | "Einstein's Local Realism and the Realistic Interpretation of the Wave Function" (with M. Alai and G. Tarozzi),  |
| 35 | "Organisms as a New Class of Physical Systems", in Ramellini, Pietro (Ed.), <i>The Organism in Interdisciplinary Context: Proceedings of the STOQ Research Group on Organisms</i> , Vatican City, Libreria Editrice Vaticana, 2006: 87-97                        |
| 34 | "The Lessons of Quantum Mechanics: Going Toward a New Ontology", in B. Nicolescu, M. Stavinschi (Eds.), <i>Science and Orthodoxy, a Necessary Dialogue</i> , Bucharest, Curtea Veche Pub., 2006: 151-160   |
| 33 | "A New Arms Race: 'Evolutionism' is Now an Ideological Weapon, But Darwin's Own Formulation Was far More Sophisticated", <i>Science and Theology News</i> <b>6.11-12</b> (2006)  |
| 32 | "Einstein, Bohr e Schrödinger: Un esempio di dibattito filosofico--scientifico"(Einstein-Bohr-Schrödinger Debate), <i>21<sup>mo</sup> Secolo. Scienza e Tecnologia</i> <b>3</b> (2006): 43-46  |
| 31 | "Premeasurement vs. Measurement: A Basic Form of Complementarity" (with G. Tarozzi), in C. Garola, A. Rossi, and S. Sozzo (Eds.), <i>The Foundations of Quantum Mechanics: Historical Analysis and Open Questions</i> , Singapore, World Scientific, 2006: 40-47 |
| 30 | "The Ontology Suggested by Quantum Mechanics", in P. Valore (ed.), <i>Topics on General and Formal Ontology</i> , Monza, Polimetrica International Scientific Publisher: 161-79 (2006)   |
| 29 | "The Problem of Information", in G. Auletta (ed.), <i>Proceedings of the I Workshop on the Relationships Between Science and Philosophy</i> , Vatican City, Libreria Editrice Vaticana, 2006 (2006): 109-127   |
| 28 | "Negazione e cominciamento nella filosofia hegeliana" (Negation and Beginning in Hegel's Philosophy), <i>Pòlemos</i> (February 2006): 266-71   |
| 27 | "Realismo sociale, non realismo socialista! Commento a Maurizio Ferraris" (Social Realism and not Socialist Realism), in <i>Rivista di Estetica</i> <b>30</b> (2005): 181-85   |
| 26 | "Logic, Semiotics, and Language", <i>Croatian Journal of Philosophy</i> <b>5.13</b> (2005): 51-69  |
| 25 | "Quantum Information as a General Paradigm", <i>Foundations of Physics</i> <b>35</b> : 787-815   |
| 24 | "Quantum Information and Inferential Reasoning", <i>Foundations of Physics</i> <b>35</b> (2005): 155-69  |
| 23 | "Interpretazioni soggettivistiche della misurazione in meccanica quantistica", <i>Teorie e modelli</i> <b>9</b> (2004): 43-61  |
| 22 | "Decoherence and Triorthogonal Decomposition", <i>International Journal of Theoretical Physics</i>   |

|    |  |
|----|--|
|    | <b>43</b> (2004): 2263-64  |
| 21 | "On the Physical Reality of Quantum Waves", <i>Foundations of Physics</i> <b>34</b> (2004): 1675-94, Special Issue in Honor of F. Selleri (with Gino Tarozzi)  |
| 20 | "Il principio di complementarità sottoposto a verifica sperimentale", in <i>Quanti Copenhagen? Bohr, Heisenberg e le interpretazioni della meccanica quantistica</i> (atti del Convegno, Cesena, 17-19 ottobre 2002, a cura di Isabella Tassani), Cesena, Il Ponte Vecchio, 2004: 169-77   |
| 19 | "Critical Examination of the Conceptual Foundations of Classical Mechanics in the Light of Quantum Physics", <i>Isonomia</i> (2002): <a href="http://www.uniurb.it/Filosofia/isonomia/aulettaepist">http://www.uniurb.it/Filosofia/isonomia/aulettaepist</a> , <i>Epistemologia</i> <b>27</b> (2004): 55-82  |
| 18 | "Wavelike Correlations versus Path Detection: Another Form of Complementarity", <i>Foundations of Physics Letters</i> , <b>17</b> (2004): 889-95 (with G. Tarozzi)   |
| 17 | "Language, Sign and Representation: An Answer to Stewart, Laurent, Reboul, and Palma", <i>Intellectica</i> <b>36-37</b> (2003): 401-417  |
| 16 | "Some Lessons of Quantum Mechanics for Cognitive Sciences", <i>Intellectica</i> <b>36-37</b> (2003): 293-317   |
| 15 | "How Quantum Mechanics Suggests New Insights in Metaphysics and Natural Theology", <i>Antonianum</i> <b>78</b> (2003): 705-710; rev. ed. under the title "The 'Triadic' Structure in Physics: New Insights for Metaphysics and Natural Theology", in C. L. Harper (ed.), <i>Spiritual Information</i> , Templeton Foundation Press, Philadelphia, 2005: 181-87 |
| 14 | "Is Representation Characterized by Intrinsicity and Causality?", <i>Intellectica</i> <b>35</b> (2002): 83-113   |
| 13 | "Dio è garante di un certo ordine mondano?", <i>Antonianum</i> <b>76.1</b> (2001): 193-96  |
| 12 | "An Outline of an Interpretation of Quantum Mechanics", in Garola/Rossi (eds), <i>The Foundations of Quantum Mechanics. Historical Analysis and Open Questions</i> , Singapore, World Scientific, 2000: ps. 31-49.   |
| 11 | "L'informazione in meccanica quantistica" [Information in Quantum Mechanics], in B. Continenza and E. Gagliasso (eds.) <i>L'informazione nelle scienze della vita</i> , Milano, Franco Angeli, 1998: ps. 163-72.<br><b>Review:</b> Aldo Fasolo in <i>Le Scienze</i> (italian ed. of <i>Scientific American</i> ) <b>373</b> (1999): ps. 116-17                 |
| 10 | "Il problema della scelta di Dio. Un breve esame di una tesi di Leibniz alla luce dell'adiscussione medievale", <i>Antonianum</i> <b>73</b> (1998): ps. 329-44   |
| 9  | "Spinoza: una mistica al di là del discorso razionale", in A. Molinaro/E. Salmann (eds.), <i>Filosofia e Mistica</i> , Roma, Centro Studi S. Anselmo, 1997: ps. 207-213  |
| 8  | "Alcuni appunti sulla semiotica leibniziana", in Gambarara/Gensini/Pennisi (eds.), <i>Language Philosophies and the Language Sciences</i> , Münster, Nodus Publikationen, 1996: ps. 129-32   |
| 7  | "Providence", in <i>Dictionnaire Théologique</i> , Presse Universitaire de France, Parigi, 1996.   |
| 6  | "Libertà umana, Preveggenza e predestinazione: un breve esame critico della dottrina di Duns Scotus", in <i>Miscellanea</i> for Prof. Studer, Editrice Anselmiana, Roma, 1995: ps. 287-300   |
| 5  | "Il rapporto tra i concetti di possibile ed esistente nel quadro della teoria leibniziana dei mondi possibili", <i>Filosofia</i> <b>45.3</b> (1994): ps. 275-89 [Leibniz Bibliography: 1994]   |
| 4  | "Sémiotique et problématique corps-esprit chez Leibniz et les occasionnalistes", <i>Histoire Epistémologie Langage</i> , <b>14.2</b> (1992): ps. 85-106  |
| 3  | "L'argomento Ontologico. Un convegno internazionale" <i>Cultura e Scuola</i> <b>116</b> (1991), ps. 305-313  |
| 2  | "Leibniz e la prova modale dell'Essere necessario", <i>Atti del Convegno sull'Argomento Ontologico</i> (ed. M. M. Olivetti), Padova 1991, ps. 237-46 [Leibniz Bibliography: 1990]  |
| 1  | "Moses Mendelssohn", in <i>Handbook of Metaphysics and Ontology</i> , Philosophia Verlag, München, 1991  |

