

Professor Gennaro Auletta was born on August the 27th, 1957; he is married to Mathilde Anquetil and has two children: Leo and Margot.

After having taken his degree in philosophy at "La Sapienza" University in Rome he took his Ph.D and his *Post-doc* in Philosophy at the same university. Since 1991, Professor Auletta has been Lecturer in many Pontifical, Italian, and foreign universities, offering course both in philosophical matters (History of Medieval and Modern Philosophy, Logic and Philosophy of Science) and in scientific ones, especially concerning his early research interests focused in Quantum Theory, its history and foundation.

His research in Quantum Mechanics culminated, in 2000, with the publication of *Foundations and Interpretation of Quantum Mechanics. A Critical-Historical Analysis of the Problems and a Synthesis of the Results* (Word Scientific 2000, rev. ed. 2001) with a Preface by Giorgio Parisi. In 2001 he was also admitted to the list of *Maître de conférences* (France) for Epistemology and history of sciences and techniques.

Since 2003, a regular teaching activity begun at the Pontifical Gregorian University, where he became the Scientific Director of the Specialization *Science and Philosophy*. Meanwhile, he published a number of papers in international journals on issues spanning from the interpretation of quantum mechanics and quantum information to semiotics and theory of representations.

In 2007 Professor Auletta was nominated Scientific Director of the STOQ (*Science Theology and the Ontological Quest*) Project housed by the Pontifical Council for Culture and framing seven Roman Pontifical Universities.

Since ten years Professor Auletta's research interests more and more address issues in the treatment of information by biological systems (from bacteria to human brain), in cognitive neurosciences, and in philosophy of mind. In 2008 he published (with G. Ellis and L. Jaeger) a paper for the Journal of the Royal Society Interface entitled: *Top-down causation by information control: from a philosophical problem to a scientific research programme*. In this period, he also published several papers on the relations between science and philosophy and the opportunity to restore a valuable dialogue between the two disciplines.

In early 2009, his enduring interests for Quantum Mechanics brought Professor Auletta to author (together with Mauro Fortunato and Giorgio Parisi) a handbook in *Quantum Mechanics* for the Cambridge University Press.

Professor Auletta has organized two research workshops (in 2004 and in 2006) on the relationships between science and philosophy at the *Domus Sanctae Marthae*, Vatican City, flowed into two volumes of proceedings for The STOQ Research Series: *The Controversial Relationships Between Science and Philosophy: a Critical Assessment* and *The Relationships Between Science and Philosophy: New Opportunities for a Fruitful Dialogue*.

He has been the Vice-Director of the international conference *Biological Evolution: Facts and Theories. A Critical Appraisal 150 years After "The Origin of Species"*, held at the Pontifical Gregorian University, Rome, March 3rd-7th 2009, under the High Patronage of the Pontifical Council for Culture. On April 2nd-4th 2009 he also organized a research workshop at the *Domus Sanctae Marthae*, Vatican City, on *Endogenous Processes and Causation in Brain and Behavioural Sciences*.

Professor Auletta is author of 10 books (both authored and edited) and of more than 50 papers. He is presently the Scientific Director of the Specialization Science and Philosophy at the Pontifical Gregorian University and the Scientific Director of the STOQ Project of the Pontifical Council for Culture. He is also visiting professor at the University of Notre Dame and fellow of the Linnean Society of London.