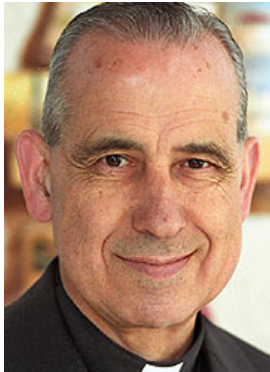




the Pontifical Academy of Saint Thomas Aquinas



Mariano Artigas



Zaragoza, Spain 15 December 1938 - Pamplona, Spain, 23 December 2006

Appointment to the Academy: 16 December 1999

Scientific discipline: Philosophy of Nature, Philosophy of Science

Academic title: Professor

Most important awards, prizes and academies

Full Professor of Philosophy of Science and Philosophy of Nature, University of Navarra, Pamplona (Spain). Dean of the Ecclesiastical Faculty of Philosophy, University of Navarra, Pamplona (Spain) 1988-1998. Vice-Dean of the Ecclesiastical Faculty of Philosophy, University of Navarra, Pamplona (Spain) since 1998. Corresponding member of the "Académie Internationale de Philosophie des Sciences" (Brussels) since 1990. Consultant of the Pontifical Council for Dialogue with Non-Believers (no longer in existence). Visiting Professor of the Pontifical University of the Holy Cross, Rome. Honorary Professor of the National University of Saint Marck, Lima (Peru). Guest professor in universities in Europe and America. Templeton award, program for courses on science and religion, 1995. Participation in the workshop for winners of this award organized by the Templeton Foundation and the Center for Theology and the Natural Sciences, Berkeley (California), June 1995. Templeton subsidy for a book-project entitled "The Mind of the Universe", 1996. The book was published in Spanish in 1999 and in English in 2000.

Summary of scientific research

After graduating in physics at the University of Barcelona, Spain (1960), in my doctoral dissertation in philosophy at the Lateran University, Rome (1963), I examined the value of the classical notion of substance when applied in the microphysical world. Then, in my doctoral dissertation in physics at the University of Barcelona (1968), I examined the structure of Newtonian physics. In the following years I moved to epistemological questions, especially in relation to Karl Popper, and presented a doctoral dissertation in philosophy at the University of Barcelona (1979) on the "Reliability of Science and its Philosophical Impact". I published my first book, a summary and critical analysis of the epistemology of Popper, in 1979. In the last twenty years I have tried to develop a Thomistic outlook which, taking into account and using as a base the progress of modern science, may serve to explain the realist character and the metaphysical capacity of human knowledge, avoiding the excesses of scientism on the one hand and of a philosophy disconnected from science on the other. I first published the results of my investigation in 1989 (philosophy of science) and 1992 (philosophy of nature). In these works the results of science and epistemology are not only incorporated: they are an important part of the base of the entire work, which tries to redefine classical philosophical problems and solutions in the present context. In recent years, I have applied these results to the new emerging field of the relationship between science and religion, and I have published a proposal for a fruitful dialogue based on the analysis of the general presuppositions of empirical science and the feedback of scientific progress in relation to them (1999). I continue to work on these problems, and I am also working on a new book on Galileo.

Main Publications

Books *Karl Popper: Búsqueda sin término*, Magisterio Español, Madrid 1979; *Filosofía de la naturaleza*, Eunsa, Pamplona 1985, 4th renewed ed. 1998; *Filosofía della natura*, Le Monnier, Firenze 1989; *Introducción a la filosofía*, Eunsa, Pamplona 1984, 4th ed. 1995; *Introduction to Philosophy*, Sinag, Tala Publishers, Manila 1990; *Las fronteras del evolucionismo*, Palabra, Madrid 1985, 5th ed. 1992; *Le Frontiere dell'Evoluzionismo*, Ares, Milano 1993; *As Fronteiras do Evolucionismo*, Rei dos Livros, Lisboa, 1993; *Ciencia, razón y fe*, Palabra, Madrid 1985, 4th ed. 1992; *El hombre a la luz de la ciencia*, Palabra, Madrid 1992; *Filosofía de la ciencia experimental*, Eunsa, Pamplona 1989, 3rd ed. 1999; *La inteligibilidad de la naturaleza*, Eunsa, Pamplona 1992,

2nd ed. 1995; *Ciencia y fe: nuevas perspectivas*, Eunsa, Pamplona 1992; *El desafío de la racionalidad*, Eunsa, Pamplona 1994, 2nd ed. 1999; *Filosofía de la ciencia*, Eunsa, Pamplona 1999; *Lógica y ética en Karl Popper*, Eunsa, Pamplona 1998; *The Ethical Nature of Karl Popper's Theory of Knowledge*, Peter Lang, Bern 1999; *La mente del universo*, Eunsa, Pamplona 1999, 2 ed. 2000; *The Mind of the Universe*, Templeton Foundation Press, Philadelphia and London 2000.

Articles and Contributions to Collective Works (a selection)

"La fiabilidad de la ciencia experimental", *Sapientia*, 36 (1981), pp. 117-128; "Ciencia, finalidad y existencia de Dios", *Scripta Theologica*, 17 (1985), pp. 151-189; "La fiabilidad de la ciencia" (with Evandro Agazzi and Gerard Radnitzky), *Investigación y ciencia*, n° 122, November 1986, pp. 66-74; "Física y creación: el origen del universo" *Scripta Theologica*, 19 (1987), pp. 347-373; "Pierre Duhem: The philosophical meaning of two historical theses", *Epistemología*, special issue 1987: *Les relations mutuelles entre la philosophie des sciences et l'histoire des sciences*, pp.89-97; "Objectivité et fiabilité dans la science", in: E. Agazzi (ed.) *L'objectivité dans les différentes sciences*, Editions Universitaires, Fribourg (Suisse) 1988, pp. 41-54; "Objectivity and Reliability in Science", *Epistemologia* (Genova), 11 (1988), pp.101-116; "Objetividad y fiabilidad en la ciencia", *Folia Humanistica*, 25 (1987), n° 294-295 (julio-agosto), pp. 457-470; "Nicolás Oresme, gran maestro del Colegio de Navarra, y el origen de la ciencia moderna", *Príncipe de Viana (Suplemento de ciencias)*, IX, n° 9, suplemento 1989, pp.297-331; "Emergence and Reduction in Morphogenetic Theories", in: E. Agazzi and A. Cordero (eds.), *Philosophy and the Origin and Evolution of the Universe*, Kluwer, Dordrecht-Boston-London 1991, pp. 253-262; "Science and Transcendence", in: E. Agazzi (ed.), *Science et Sagesse*, Editions Universitaires Fribourg Suisse, Fribourg 1991, pp. 87-101; "Scientific Creativity and Human Singularity", in: C. Wasserman, R. Kirby, B. Rordorff (eds.), *The Science and Theology of Information*, Labor et Fides, Genève 1992, pp. 319-326; "Three Levels of Interaction between Science and Philosophy", in: C. Dilworth (ed.), *Intelligibility in Science*, Rodopi, Amsterdam and Atlanta (Georgia) 1992, pp. 123-144; "Conocimiento humano, fiabilidad y falibilismo", *Anuario Filosófico*, 25 (1992), pp. 277-294; "Science et foi. Nouvelles perspectives", in: P. Poupard (ed.), *Après Galilée. Science et foi: nouveau dialogue*, Desclée, Paris 1994, pp. 119-214; "Ciencia y fe: nuevas perspectivas", *Scripta Theologica*, 27 (1995), pp. 269-283; "Scienza e verità parziale", in: R. Martinez (ed.), *La verità scientifica*, Armando, Roma 1995, pp. 101-111; "Science, réalisme et finalité: réflexions sur la portée de l'épistémologie d'Evandro Agazzi", in: B. Schumacher and E. Castro (eds.), *Penser l'homme et la science*, Editions Universitaires Fribourg Suisse, 1996, pp. 3-15; "Theology as a Bridge Between Nature and Transcendence", in: N.H. Gregersen, M.W.S. Parson and C. Wassermann (eds.), *The Concept of Nature in Science & Theology*, Part I (Studies in Science & Theology, 1995, 3), Labor et Fides, Genève 1997, pp. 46-51; "The Ethical Roots of Karl Popper's Epistemology", *Acta Philosophica*, 7 (1988), pp. 197-233; "Supuestos e implicaciones del progreso científico", *Scripta Theologica*, 30 (1998), pp. 205-225; "El diálogo ciencia-fe en la encíclica *Fides et ratio*", *Anuario Filosófico*, 32 (1999), pp. 611-639; "Desarrollos recientes en evolución y su repercusión para la fe y la teología", *Scripta Theologica*, 32 (2000), pp. 249-273.