



Curriculum Vitae Prof. Dr. Nicolas Moussiopoulos



Image: Moussiopoulos

Name: Nicolas Moussiopoulos

Born: 1 January 1956

Research Priorities: air quality assessments, atmospheric transport processes, circular economy

Nicolas Moussiopoulos' work addresses several issues in the fields where energy use is interrelated with impacts on the environment. His research focuses primarily on air pollution and climate change, with various contributions in the development of atmospheric wind and dispersion/chemistry models and their application at the local-to-regional scale for air quality assessments and other regulatory purposes.

Academic and Professional Career

2019 - 2021 Head, Energy Department, School of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece

2014 - 2017 Head, Energy Department, School of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece

2010 - 2016 Vice President, International Hellenic University, Thessaloniki, Greece

2010 - 2013 Dean, School of Economics & Business Administration, International Hellenic University, Thessaloniki, Greece

2006 - 2010 Dean, Faculty of Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece

2003 - 2007 Chairman, School of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece

1997 - 1999 Chairman, School of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece

- since 1989 Professor and Director, Laboratory of Heat Transfer and Environmental Engineering, School of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece
- 1989 Habilitation, University Karlsruhe, Karlsruhe, Germany
- 1986 - 1987 Associate Lecturer, Gesamthochschule Kassel, Kassel, Germany
- 1983 - 1989 Lecturer and Leader, Research Group on Atmospheric Transport Phenomena, School of Mechanical Engineering, University Karlsruhe, Karlsruhe, Germany
- 1982 Doctorate, University Karlsruhe, Karlsruhe, Germany
- 1973 - 1978 Study of Mechanical Engineering, University Karlsruhe, Karlsruhe, Germany

Functions in Scientific Societies and Committees (Selection)

- since 2021 Vice President, Hellenic Solid Waste Management Association, Greece
- since 2019 Consultant regarding Waste Management, German-Greek Assembly, German Federal Ministry for Economic Cooperation and Development (BMZ), Germany
- 2018 - 2021 Member, Scientific Council, Hellenic Foundation of Research & Innovation, Athens, Greece
- since 2012 Associate Editor, Philosophical Transactions A, The Royal Society, UK
- 2011 - 2014 Full member, Sectoral Council for Engineering, National Research Council, Greece
- 2009 - 2014 Greek representative, Programme Committee "Regions of Knowledge, Research Potential and Coherent Development of Policies", European Commission
- 2006 - 2010 Greek representative, Domain Committee on Earth System Science and Environmental Management, European Cooperation in Science & Technology (COST)
- 1998 - 2001 Full Member, National Research Council, Greece
- 1994 - 2001 Member, Scientific Board, National Observatory of Athens, Greece

Project coordination, Membership in Collaborative Research Projects (Selection)

- since 2010 Coordinator of or contributor to more than 20 research projects, 7th Framework Programme (FP7), Horizon 2020, Horizon Europe, Interreg Europe, and LIFE and MED programmes, European Commission
- 2008 - 2011 Project "MEGAPOLI – Megacities: Emissions, urban, regional and global atmospheric pollution and climate effects, and integrated tools for assessment and mitigation", FP7, European Commission

- 2004 - 2009 Network of Excellence “ACCENT – Atmospheric Composition Change: A European Network”, FP6, European Commission
- 2001 - 2010 European Topic Centre on Air and Climate Change, European Environment Agency

Honours and Awarded Memberships (Selection)

- 2008 Excellence and Innovation Award, Aristotle University Thessaloniki, Thessaloniki, Greece
- 2002 Order of Merit, Federal Republic of Germany
- 2002 Member, German National Academy of Sciences Leopoldina, Germany
- 1996 Honorary Professor, School of Mechanical Engineering, University Karlsruhe, Karlsruhe, Germany
- 1990 Heinrich Hertz Award, Karlsruhe Institute of Technology, Karlsruhe, Germany
- 1988 Promotion Award, Gerhard Hess-Programme, German Research Foundation (DFG)

Research Priorities

Nicolas Moussiopoulos’ work addresses several issues in the fields where energy use is interrelated with impacts on the environment. His research focuses primarily on air pollution and climate change, with various contributions in the development of atmospheric wind and dispersion/chemistry models and their application at the local-to-regional scale for air quality assessments and other regulatory purposes.

Nicolas Moussiopoulos is internationally reputed for his research in the field of air pollution control. He coordinated the development of appropriate mathematical model systems to describe the dispersion of air pollutants in the atmosphere. These model systems have been successfully used to describe atmospheric transport and transformation processes as well as in air quality assessments for many European cities. Based on such assessments, air quality strategies are optimised and, if necessary, action plans are developed.

Nicolas Moussiopoulos also developed efficient methods for describing cross-scale processes and participated in the development of innovative procedures for validating mathematical models. He has also been involved in studies related to circular economy, waste management, environmental impact assessment and management, life cycle analysis and integrated product policy.