

Curriculum Vitae of Professor Nicolas Moussiopoulos, Dr.-Ing. habil., Prof. h.c.

Nicolas Moussiopoulos is since 1989 a Full Professor at the School of Mechanical Engineering of the Aristotle University Thessaloniki and the Head of this University's Laboratory of Heat Transfer and Environmental Engineering. Since 2014 he is also the Director of the School's Energy Department. In addition, he is a Honorary Professor at the School of Mechanical Engineering of the Karlsruhe Institute of Technology.

In the periods 1997-1999 and 2003-2007 Professor Moussiopoulos chaired Aristotle University's School of Mechanical Engineering. From September 2006 until August 2010 he was the Dean of the University's Faculty of Engineering. From October 2010 until March 2016 he served as the Vice President of the International Hellenic University. Since 2002 he is a member of the German National Academy of Sciences Leopoldina. In the same year he was awarded the Order of Merit of the Federal Republic of Germany. In 2012 the Royal Society appointed him Associate Editor of *Philosophical Transactions A*, the world's longest running scientific journal. Professor Moussiopoulos received several awards and prizes, among them the Heinrich Hertz Award and Aristotle University's Excellence Prize.

Professor Moussiopoulos is the author of more than 800 scientific publications, including approx. 200 papers in peer-reviewed journals (more than 3500 citations, h-index: 28) and 30 books. His research work addresses several issues in the broad field of energy and the environment. In the last 25 years Professor Moussiopoulos participated in numerous competitive, mostly EU funded research projects with a total budget exceeding 20 million €. Moreover, for more than 15 years Professor Moussiopoulos co-ordinated several tasks of the European Topic Centre on Air and Climate Change, within the work programme of the European Environment Agency. In the same period, he has been involved in several large environmental impact assessment studies, largely related to air pollution. He has consulted several Greek Ministers and has represented Greece in numerous international committees and bodies. During the period 2009-2014 he served as the Greek representative in the Programme Committee "Regions of Knowledge, Research Potential and Coherent Development of Policies" 7th Framework Programme European Commission and a full member of the Greek Sectoral Research Council for Engineering.

Selected Recent Publications

Banias G., Achillas Ch., Vlachokostas Ch., Moussiopoulos N., Stefanou M., 2017, Environmental impacts in the life cycle of olive oil: A literature review. *Journal of the Science of Food and Agriculture*, 97, 1686-1697.

Kontogianni St. and Moussiopoulos N. (2017), Investigation of the occupational health and safety conditions in Hellenic solid waste management facilities and assessment of the in-situ hazard level, *Safety Science*, 96, 192–197.

Geiger F., Pope F., MacKenzie R., Brune W., Monks P., Bloss W., Fuller G., Moussiopoulos N., Hort M., Tomlin A., Presto A., van Pinxteren D., Vlachou A., Heard D., Hewitt N., Baltensperger U., Lewis A., Rickard A., Lee J., Querol X., Kim S., Hamilton J., Sommariva R., McFiggans G., Harrison R., Jimenez J.-L., Cross E., Wenger J., Pandis S., Kiendler-Scharr A., Donahue N., Whalley L., McDonald B., Pieber S., Prévot A., Alam S., Krishna Kumar N., Wahner A., Skouloudis A., Kalberer M., Wallington T. and Dunmore R. (2016), Chemical complexity of the urban atmosphere and its consequences: general discussion, *Royal Society of Chemistry*, doi: 10.1039/C6FD90020H.

Michailidou, A.V., Vlachokostas, C. and Moussiopoulos, N. (2016), Interactions between climate change and the tourism sector: multiple-criteria decision analysis to assess mitigation and adaptation options in tourism areas, *Tourism Management*, 55, 1-12.

Kukkonen J., Karl M., Keuken M.P., Denier van der Gon H.A.C., Denby B.R., Singh V., Douros J., Manders A., Samaras Z., Moussiopoulos N., Jonkers S., Aarnio M, Karppinen A., Kangas L., Lützenkirchen S., Petäjä T., Vouitsis I. and Sokhi R.S. (2016), Modelling the dispersion of particle numbers in five European cities, *Geoscientific Model Development*, 9, 451-478

Michailidou A.V., Vlachokostas Ch., Moussiopoulos N. and Maleka D. (2015), Life Cycle Thinking used for assessing the environmental impacts of tourism activity for a Greek tourism destination, *Journal of Cleaner Production*, 499-510.

Kukkonen J., Karl M., Keuken M.P., Denier van der Gon H.A.C., Denby B.R., Singh V., Douros J., Manders A., Samaras Z., Moussiopoulos N., Jonkers S., Aarnio M., Karppinen A., Kangas L., Lützenkirchen S., Petäjä T., Vouitsis I. and Sokhi R.S. (2015), Modelling the dispersion of particle numbers in five European cities, *Geoscientific Model Development*, doi: 10.5194/gmdd-8-5873-2015.

Boonen E., Akylas V., Barmpas F., Boréave A., Bottalico L., Cazaunau M., Chen H., Daële V., De Marco T., Doussin J.F., Gaimoz C., Gallus M., George C., Grand N., Grosselin B., Guerrini G.L., Herrmann H., Ifang S., Kleffmann J., Kurtenbach R., Maille M., Manganelli G., Mellouki A., Miet K., Mothes F., Moussiopoulos N., Poulain L., Rabe R., Zapf P. and Beeldens A. (2015), Construction of a photocatalytic de-polluting field site in the Leopold II tunnel in Brussels, *Journal of Environmental Management*, 155, 136-144.

Michailidou A.V, Vlachokostas Ch. and Moussiopoulos N. (2015), A methodology to assess the overall environmental pressure attributed to tourism areas: a combined approach for typical all-sized hotels in Chalkidiki, Greece, *Ecological Indicators*, 50, 109-115.

Gallus M., Akylas V., Barmpas F., Beeldens A., Boonen E., Bor_eave A., Cazaunau M., Chen H., Daële V., Doussin J.F., Dupart Y., Gaimoz C., George C., Grosselin B., Herrmann H., Ifang S., Kurtenbach R., Maille M., Mellouki A., Miet K., Mothes F., Moussiopoulos N., Poulain L., Rabe R., Zapf P. and Kleffmann J. (2014), Photocatalytic de-pollution in the Leopold II tunnel in Brussels: NOx abatement results, *Building and Environment*, 84, 125-133.

de Hoogh K., Korek M., Vienneau D., Keuken M., Kukkonen J., Nieuwenhuijsen M.J., Badaloni Ch., Beelen R., Bolignano A., Cesaroni G., CirachPradas M., Cyrus J., Douros J., Eeftens M., Forastiere F., Forsberg B., Fuks K., Gehring U., Gryparis A., Gulliver J., Hansell A.L., Hoffmann B., Johansson Ch., Jonkers S., Kangas L., Katsouyanni K., Künzli N., Lanki T., Memmesheimer M., Moussiopoulos N., Modig L., Pershagen G., Probst-Hensch N., Schindler Ch., Schikowski T., Sugiri D., Teixidó O., Tsai M.-Y., Tuomi T.-Y., Brunekreef B., Hoek G., Bellander T. (2014), Comparing land use regression and dispersion modelling to assess residential exposure to ambient air pollution for epidemiological studies, *Environment International*, 73, 382-392.

Vlachokostas Ch., Baniyas G., Athanasiadis A., Achillas Ch., Akylas V. and Moussiopoulos N. (2014), CENSE: a tool to assess combined exposure to environmental health stressors in urban areas, *Environment International* 63, 1-10.

Saffari A., Daher N., Samara C., Voutsas Dimitra., Kouras Ath., Manoli E., Karagkiozidou O., Vlachokostas Ch., Moussiopoulos N., Shafer M., Schauer J. and Sioutas C. (2013), Increased biomass burning due to the economic crisis in Greece and its adverse impact on wintertime air quality in Thessaloniki, *Environmental Science and Technology* 47, 23, 13313–13320.

Vlachokostas Ch., Michailidou V.A, Spyridi D. and Moussiopoulos N. (2013), Bridging the gap between traffic generated health stressors in urban areas: predicting xylene levels in EU cities, *Environmental Pollution* 180, 251-258.

BaklanovA., SchlünzenK. H., Suppan P., Baldasano J, Brunner D., Aksoyoglu S., Carmichael G., Douros J., Flemming J., Forkel R., Galmarini S., Gauss M., Grell G., Hirtl M., Joffre S., Jorba O., Kaas E, Kaasik M., Kallos G., Kong X., Korsholm U., Kurganskiy A., Kushta J., Lohmann U., Mahura A., Manders-Groot A., Maurizi A., Moussiopoulos N., Rao S. T., Savage N., Seigneur C., Sokhi R., Solazzo E., Solomos S., Sørensen B., Tsegas G., Vignati E., Vogel B., and Zhang Y. (2013), Online coupled regional meteorology-chemistry models in Europe: current status and prospects, *Atmospheric Chemistry and Physics* 13, 12541–12724.