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Preface

This year the 8th International Conference on Environmental and Geological Science and Engineering (EG '15) was held in Salerno, Italy, June 27-29, 2015. The conference provided a platform to discuss geosciences and earth engineering, management and technology of energy systems, geology and environmental systems, geophysics, atmospheric physics, biodiversity conservation, air pollution etc. with participants from all over the world, both from academia and from industry.

Its success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of this conference are published in this Book that will be sent to international indexes. They will be also available in the E-Library of the WSEAS. Extended versions of the best papers will be promoted to many Journals for further evaluation.

Conferences such as this can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors

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Plenary Lecture 1

Airport Air Quality – A Review



Professor Costas G. Helmis

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Abstract: It is well known that local air quality is a limiting factor in the development of many airports at different countries. In fact, the ambient concentrations of air pollutants at various airports are already close to or above the limit values according to the regulations, while there is not yet certain evidence of safe thresholds regarding health effects and the air pollutants limit values. Thus, if air traffic is to continue to increase, its impact on local air quality over the greater airport area will have to be better understood and certain solutions have to be found. This presentation gives an overview of the related issues and the studies that have to be conducted regarding the airport air quality (AAQ). More specifically the emissions, transport and chemical transformation of pollutants are of different scales (aircraft engine, exhaust plume, whole aircraft, airport scale, regional scale and global scale) and require appropriate different methodologies of measurements and estimations. The AAQ modeling is a complicated task involving physical and numerical modelling characterized with different scales (e.g. airport scale with the regional scale). Also, in order to assess the impact of airport all sources, an emission inventory should be considered, which has to satisfy all scales, for past and real time forecasting, including the information of the “hot spots” of airport air quality. The above mentioned issues were studied in details in the framework of the European project “A European Network of Excellence for an Environmentally Compatible Air Transport System (ECATS)” where the University of Athens was a partner and it is worth mentioning here certain suggestions or solutions as well as certain tools to overcome these difficulties, which are outcomes of this project. Thus, examples and results of studies will be given including the methodologies of measurements related with air pollutants, the development of AAQ databases and the influence of airport and aircraft emissions upon the air quality in the surroundings.

Brief Biography of the Speaker: Dr. Costas G. Helmis is Professor in the Department of Environmental Physics and Meteorology, Faculty of Physics of the Athens University, Greece. He received his BSc in Physics in 1972, MSc in Electronics in 1975, MSc in Automation in 1976 and PhD in Physics in 1981 from the University of Athens. The fields of his scientific interests/activities are Atmospheric Physics, Climatology, development of instrumentation for remote and in-situ measurements, Atmospheric Boundary Layer (ABL) Physics over land and sea, the Physics of buildings, applications of wind energy and passive cooling systems, urban air pollution (outdoor and indoor) and trans-boundary air pollution. Professor Helmis has participated in 83 international, European and national research projects, in 34 of the above he acted as a principal investigator (PI) and he has great experience in the design and realization of experimental campaigns and the development/use of innovated in-situ and remote systems covering the needs for monitoring basic meteorological parameters and air pollutants. This experience is reflected in studies related with the lower troposphere, the atmospheric boundary layer structure, the airflow patterns over urban areas, the microclimatic characteristics, the acquisition of datasets and analysis of air pollutant's concentration and the classification of atmospheric circulation with respect to air pollution episodes. He has 124 publications in scientific journals, 195 publications in conference proceedings, 94 participations in technical reports, 55 other publications and over of 1.900 citations on publications in International Journals and Conferences, excluding self-citations. He has been Chairman of the Faculty of Physics (2008-2012), Director of the Department of Applied Physics (2000-2007), Director of the Department of Environmental Physics and Meteorology (2013-today), Head of the Lab. of Meteorology (1997-2000), Vice President of the Board of Directors of the Centre of Renewable Energy Sources (1997-2000), member of the Council of Scientists-INTAS (1996-1998), board member (1988-1991) and President (1994-1996) of the Board of the Greek Physical Society and he has collaborated with the European Environmental Agency on air quality issues (ETC/AQ) during the period 1996-2000.

Plenary Lecture 2

An Operational Integrated Airport Environmental Monitoring System: The Case of the New Athens International Airport



Professor Dimosthenis N. Asimakopoulos

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Abstract: In recent years the tremendous development of the operational needs of international airports, alongside the presence of new types of aircrafts which require environmental monitoring support, necessitated the need of advanced design and performance instrumentation. In this respect, both in situ and remote sensing instrumentation should be engaged to provide information on the vertical structure of the meteorological parameters of the lower atmosphere over the airport, covering mean values and associated statistics.

The present work will focus on the details of the instrumentation lay out over the Athens new International Airport, (AIA), which was designed by the NKUA scientific consultancy group elaborating on the measurement potential. Furthermore selected results from the instrument operation will be given. In particular some statistical data from the acoustic sounder operation, the standard and atmospheric turbulence probes as well as the other conventional sensors will also be presented. This very interesting atmospheric condition 'picture', will be discussed so that the background atmospheric condition lay out will be formulated which in turns determines the unique for each airport environmental condition identity.

Since the AIA is satisfactory covered with environmental air quality monitoring sensors, a case study of pollution dispersion map will also be presented and discussed incorporating the background meteorological monitoring network as well as additional instrumentation. This case was studied in details in the framework of the European project "A European Network of Excellence for an Environmentally Compatible Air Transport System (ECATS)" where the University of Athens was a partner.

Brief Biography of the Speaker: 1. Name: Dimosthenis Asimakopoulos

2. Organization of primary employment: Professor, Department of Physics, Director of the Laboratory of Meteorology and former Rector of the University of Athens, Panepistimioupolis, Building Physics 5, 157 84 Athens, Greece.

3. Education: Diploma and Ph.D, University College London, Electronic and Electrical Eng. Dept., DSc.University of Athens, School of Physics and Mathematics.

4. Professional Experience. UCL academic personnel, Researcher WPL/National Oceanic and Atmospheric Administration USA, visiting professor at Polytechnic School of Torino and Trier University. Vice Rector and Rector of the University of Athens, Director at the National Observatory of Athens, President of the National Center of Marine Research, President and Executive Director of the Euginidion Hospital, Chairman of the Research Account Committee and Director of the Center for Continues Education of the University of Athens, Vice President of the Onasion Cardio Surgical Center, Vice President of the European Environment Agency.

5. Main Fields of Scientific Directions: Coordination of Large Scientific and Teaching Programs, Study of Physics of the Built Environment, Air Pollution, Instrumentation Technology, Renewable Energy Sources, Climatic Change.

6. Published Work: Over 639 articles international scientific journals, Conferences and scientific Reports.

7. Decorations: Ph.D., D.Sc., Fellow of the Institute of Electrical Eng., (FIEE, UK), Chartered Eng. (UK), Fellow of the Royal Meteorological Society, (FRMS, UK), Member of the Technical Chamber of Greece, (GR), Chartered Eng. (GR), Fellow of the Hellenic Meteorological Society, (GR) Member of the European Environment Research Organisation, (EERO), Foreign Member of the Georgian Academy of Sciences, Foreign Member of the Russian Academy of Natural Sciences. Member of the Euro Mediterranean Academy of Arts and Sciences –Head of the Greek Chapter. Lord Notarius of the Alexandrian Patriarch. Saint George Great Cross of the Hellenic Church. Decorations from National and International Organizations for his contribution and Management of large programs.

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