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Vikas Singh, Heather Price, John Bartzis and Ranjeet S Sokhi

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All inquiries to:

Professor Ranjeet S Sokhi
Centre for Atmospheric Science and Instrumentation Research (CAIR)
University of Hertfordshire
College Lane, Hatfield, AL0 9AB, UK
Tel: +44(0) 1707 284520 Fax: +44(0) 1707 284208
Email: r.s.sokhi@herts.ac.uk

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Preface

This eighth meeting builds upon the series that began at the University of Hertfordshire, UK in July 1996. Subsequent meetings have been held at the Technical University of Madrid (1999), Loutraki, Greece (2001), Charles University, Prague (2003) and Valencia, Spain (2005), Cyprus (2007), Istanbul (2009) and now in Athens, Greece.

Air pollution remains a key issue for achieving sustainable development and to reduce health effects. Our urban areas are continuing to grow in terms of population, transport, energy consumption and utilities. This growth is having impacts on local scales in terms of exposure to high concentrations near streets and other sources and impacts on regional and global scales including climate change. The topics of papers reflect the diversity of scales, processes and interactions involved in the impacts resulting from air pollution. Furthermore, there is a greater involvement of regional and global air pollution, climate change, policy and health communities. An important outcome of the conference is to foster cross-fertilisation of ideas and cooperation between the different air pollution science and user communities.

The need for improved understanding of the science of air quality remains a priority for the wider scientific and user communities. Despite improvements in technology, however, users still require new, robust management and assessment tools to formulate effective control policies and strategies for reducing the health impact of air pollution.

Air Quality 2012 brings together scientists, users and policy makers from across the globe to discuss the latest scientific advances in our understanding of air pollution and its impacts on our health and environment. The conference will also seek to highlight applications and developments in management strategies and assessment tools for policy and decision makers.

This volume presents a collection of abstracts of papers presented at the Conference. The main themes covered in the Conference include:

- Air quality impact on regional to global scales
- Air quality management and Policy
- Air quality, health and exposure
- Emission models and inventories
- Local and urban scale modelling and measurement
- Measurement of air pollutants
- Meteorological processes and interactions
- Model evaluation studies
- Satellite and remote sensing
- Source apportionment
- Special session - Air pollution in cities, organised with GURME/WMO
- Special session - Air Quality and Climate/Meteorology Interactions and Feedbacks
- Special session - Chemical weather forecasting / chemical transport modelling
- Special session - Transport related air pollution - Science for Policy

Ranjeet S Sokhi, Centre for Atmospheric and Instrumentation Research (CAIR),
University of Hertfordshire, UK
John Bartzis, University of Western Macedonia, Greece

March 2012

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