

**Air Pollution
Modeling and Its
Application XV**

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PREFACE

In 1969 the North Atlantic Treaty Organization (NATO) established the Committee on Challenges of Modern Society (CCMS). The subject of air pollution was from the start, one of the priority problems under study within the framework of various pilot studies undertaken by this committee. The organization of a periodic conference dealing with air pollution modelling and its application has become one of the main activities within the pilot study relating to air pollution. These international conferences were successively organized by the United States (first five); Federal Republic of Germany (five); Belgium (five); The Netherlands (four) and Denmark (five). With this one Portugal takes over the duty.

This volume contains the papers and poster abstracts presented at the 25th NATO/CCMS International Technical Meeting on Air Pollution Modelling and Its Application held in Louvain-la-Neuve, Belgium, during 15-19 October 2001. This ITM was jointly organized by the University of Aveiro, Portugal (Pilot country) and by the Catholic University of Louvain, Belgium (host country).

The ITM was attended by 78 participants representing 26 countries from Western and Eastern Europe, North and South America, Asia, Australia and Africa. The main topics of this ITM were : Role of Atmospheric Models in Air Pollution Policy and Abatement Strategies; Integrated Regional Modelling; Global and Long-Range Transport; Regional Air Pollution and Climate; New Developments; and Model Assessment and Verification.

Invited papers were presented by A. Ebel of Germany (Changing atmospheric environment, changing views); H. ApSimon of Great Britain (Applying risk assessment techniques to air pollution modelling & abatement strategies); and S.E. Gryning of Denmark (Aspects of meteorological pre-processing of fluxes over inhomogeneous terrain).

On behalf of the Scientific Committee and as organizers and editors, we should like to express our gratitude to all participants who made the meeting so successful, resulting in the publication of this book. The efforts of the chairpersons and rapporteurs were especially appreciated. Thanks also to the teams of Aveiro and Louvain-la Neuve that managed all practical matters adequately.

Finally special thanks are due to the sponsoring institutions: NATO/CCMS: Committee on the Challenges of Modern Society; University of Aveiro, Portugal; Catholic University of Louvain, Belgium; FNRS: Fonds National de la Recherche Scientifique, Belgium; EURASAP: European Association for the Sciences of Air Pollution; ICCTI: Institute for International Scientific and Technological Cooperation, Portugal.

NATO/CCMS grants allowed attendance from Central and Eastern Europe. The next conference in this series will be held in 2003 in Istanbul (Turkey).

Guy SCHAYES
Local Conference Organizer
Belgium

Carlos BORREGO
Scientific Committee Chairperson
Portugal

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NATO/CCMS INTERNATIONAL TECHNICAL MEETINGS ON AIR
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HISTORY OF THE NATO/CCMS AIR POLLUTION PILOT STUDIES

Pilot Study on Air Pollution: International Technical Meetings (ITM) on Air Pollution Modelling and Its Application

Dates of Completed Pilot Studies:

1969 - 1974 Air Pollution Pilot Study (United States)

1975 - 1979 Air Pollution Assessment Methodologies and Modelling (Germany)

1980 - 1984 Air Pollution Control Strategies and Impact Modelling (Germany)

Dates and Locations of Pilot Study Follow-Up Meetings:

Pilot Country – United States (R.A. McCormick, L.E. Niemeyer)

February 1971 – Eindhoven, The Netherlands, First Conference on Low Pollution Power Systems Development

July 1971 – Paris, France, Second Meeting of the Expert Panel on Air Pollution Modelling

All of the following meetings were entitled NATO/CCMS International Technical Meetings (ITM) on Air Pollution Modelling and Its Application

October 1972 – Paris, France - Third ITM

May 1973 – Oberursel, Federal Republic of Germany - Fourth ITM

Jun 1974 – Roskilde, Denmark- Fifth ITM

Pilot Country – Germany (Erich Weber)

September 1975 – Frankfurt, Federal Republic of Germany – Sixth ITM

September 1976 – Airlie House, Virginia, USA – Seventh ITM

September 1977 – Louvain-La-Neuve, Belgium – Eighth ITM

August 1978 – Toronto, Ontario, Canada – Ninth ITM

October 1979 – Rome, Italy – Tenth ITM

Pilot Country – Belgium (C. De Wispelaere)

November 1980 – Amsterdam, The Netherlands – Eleventh ITM

August 1981 – Menlo Park, California, USA – Twelfth ITM
September 1982 – Ile des Embiez, France – Thirteenth ITM
September 1983 – Copenhagen, Denmark – Fourteenth ITM
April 1985 – St. Louis, Missouri, USA – Fifteenth ITM

Pilot Country – The Netherlands (Han van Dop)

April 1987 – Lindau, Federal Republic of Germany – Sixteenth ITM
September 1988 – Cambridge, United Kingdom – Seventeenth ITM
May 1990 – Vancouver, British Columbia, Canada – Eighteenth ITM
September 1991 – Ierapetra, Crete, Greece – Nineteenth ITM

Pilot Country – Denmark (Sven-Erik Gryning)

November 1993 – Valencia, Spain - Twentieth ITM
November 1995 – Baltimore, Maryland, USA – Twenty-First ITM
June 1997 – Clermont-Ferrand, France – Twenty-Second ITM
September 1998 – Varna, Bulgaria – Twenty-Third ITM
May 2000 – Boulder, Colorado, USA – Twenty-Fourth (Millennium) ITM

Pilot Country – Portugal (Carlos Borrego)

October 2001 – Louvain-la-Neuve, Belgium – Twenty-Fifth ITM

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