

Danish Development Research Network workshop:
**“Urban Environmental Management and Air Quality
in Less Developed Countries”**

Date and venue: November 30, 2007, 9.30-18.30
Carlsberg Academy, Gamle Carlsberg vej 15, 2500 Valby

Workshop objectives

The workshop will address the complexity of air pollution management in the growing cities in the less developed countries and how the Scandinavian air pollution research institutions need to initiate a more progressive role in the development aid and the capacity development. While the urban air quality is improving in many industrialised countries, is the case the opposite in the fast growing metropolises in the less developed countries. The air pollution problem in the urban sphere are exceptionally complex and consist from lack in environmental education and insignificant use of air quality monitoring, inadequate modelling tools to poor policy implementation, vague multidisciplinary dialog and inadequate international research cooperation.

NERI believes that a workshop addressing the problem of air quality in the growing urban areas in the less developed countries will help clarify and pinpoint an important research and development issue in the urban environmental management debate. There are a comprehensive and growing gap between the research institutions and the development aid sectors´ understanding of knowledge sharing, environmental education and between the Scandinavian research institutions strategy in capacity development and research diversity in a development aid perspective.

NERI expect that the workshop can catalyse an increased interaction and capacity development between the Scandinavian research Institutions, the industry, the development aid sector and the municipalities, local research institutes and R&D organisations in the less developed countries. NERI also believe that it would be a useful opportunity to explain and discuss research strategy in a development/aid context and to make it clear, that science also has unique knowledge and an obligation to address environmental problems in the growing cities in the less developed countries.

The workshops discussions and outlined recommendations will be debated and evaluated in a newly established working group under the Danish Development Research Network lead by the National Environmental Research Institute and this work will form the basis of an integrated Scandinavian working group. The overall objective of the workshop is to present and discuss air pollution problems in relation to capacity development, policy implementation and research and technology knowledge sharing. The workshop will address 4 focal problems:

- Improving international research cooperation and knowledge sharing in Asia and southern Africa, suggestion to enforce research activities and assistance between national scientific communities in order to reduce the linkages between scientist and policy and decision makers and to fertilise opportunities for scientific interrelation with the less developed countries.

- Initiate an overview of the health impact caused by air quality in urban areas in less developed countries.
- Address the needs and possibilities in collaboration with research and industry in order to improve and benefit the air pollution management international.
- Outline a coherent overview of the air pollution situation at an urban or regional scale, finding possibilities for developing integrated air pollution assessment methodologies and suggestions for future development assistance in relation to air pollution management.

Draft programme

Introduction

09.00-09.20 Prologue and objectives, Peter Vangsbo Madsen, NERI
 09.20-09.40 Air Quality in Urban Areas in Less Developed Countries, Kevin Hicks, SEI
 09.40-10.10 Air pollution management in Asian cities, Noor Yahaya, University of Leeds
 10.10-10.30 NEPADs reflection on Urban Environmental Management and Air Quality in Urban Areas in Less Developed Countries, Estherine Lisinge Fotabong, NEPAD.
 10.30-10.45 Questions
 10.45-11.00 Tea break

Capacity development

11.00-11.20 Academicals capacity development and knowledge sharing as a development aid issue, Kevin Hicks, SEI
 11.20-11.50 How the Scandinavian air pollution research institutes can improve air quality in the growing urban spheres in the developing counties, Bjarne Sivertsen, NILU
 11.50-12.10 Opportunities for scientific interrelation with the industry sector in the less developed world, Avishkar Koosiale, Sasol
 12.10-12.25 Questions
 12.30-13.30 Lunch

Air quality management

13.30-13.50 National Framework on Air Quality for South Africa, Dr. Tim Chatterton, University of the West of England
 13.50-14.10 Emissions impact and reflection on establishing the monitoring network in Africa, Dr. Adetutu Mary Aghedo, Max Planck
 14.10-14.25 Public-Private Partnership in Air Quality Management: Case Study of Air Quality Monitoring in Kathmandu Valley, Kasten Fulgsang, Force

Break

14. 40-16.10 Group session: How and where could the air pollution research benefit?

- Capacity development in less developed countries research facility/ air pollution and development aid, lead by UNEP and NERI
- Research involvement in international consulting and development aid private-public partnership, lead by FORCE Technology and Sasol

16.10- 16.30 working group summary - way forward & questions, NERI

16.30 – 18.30 informal networking

Communication and dissemination

It is expected that the workshop will present suggestions and recommendations in order to improve air pollution management in the less developed countries and the workshop will outline gaps and errors in the current knowledge sharing process, development aid and capacity development between international involved institutions and stakeholders in the less developed countries.

Providing a review of the current practice and need for air quality management may accelerate multidisciplinary collaboration and partnership which might cause additional benefits such as economical growth and improved public health in the affected countries. The focus in urban air quality in the less developed countries will expectedly identify the National Environmental Research Institute as a key international stakeholder in urban air quality and air pollution management.

The workshop discussions and summaries is expected to outline recommendation and make suggestion to a shared strategically paper for the Nordic countries development aid institutions. The workshops committee will address the paper to all relevant authorities and submit a workshop proceeding in international journal.

Key Speakers

Ms. Jane Akumu, Associate Programme Officer, UNEP, Division of Policy Development and Law (DPDL). Jane Akumu has been involved in DPDL in order to promote the progressive development and implementation of environmental law In particular by supporting States and the international communities strengthening their capacity to develop and implement legal frameworks.

Ms. Estherine Lisinge Fotabong, PhD. Environment adviser to the NEPAD Secretariat, National Program Coordinator for the United Nations Environment Program's Division of Global Environment Facility Coordination (UNEP-DGEF) in South Africa. Ms Lisinge Fotabong has contributed to policy development at national and international levels, serving on several panels and steering committees. She sits on the Convention on Biological Diversity's (CBD) Expert Panel on Access and Benefit Sharing; she is West and Central Africa Regional Vice-Chair for the World Conservation Union's World Commission on Protected Areas; and is a member of the NEPAD African Protected Areas Initiative steering committee

Dr. Bjarne Sivertsen, Associate Research Director, NILU. Bjarne Sivertsen has 30 years of experience in air pollution monitoring, modelling and data presentation. Bjarne

Sivertsen has long experience in work within and with Developing countries, expert in co-ordinating and handling interdisciplinary projects. He has also developed training programmes on air quality in Europe, Africa, South America and in Asia

Noor Z. Yahaya, Specialist in Transport and Environment. Work as an Civil Engineering Lecturer from University Malaysia Terengganu, Malaysia. Is a certified The World Bank Trainer in Urban Air Quality Management. Currently attached at Institute for Transport Studies, University of Leeds, United Kingdom as a PhD student which conduct research on traffic and air pollution.

Dr. Adetutu Mary Aghedo, Researcher at Max Planck institute in Hamburg addressed the Global impact of African air pollution and developed a new approach to analyse the impact of African air pollution with a Global Chemistry Climate Model. Further more Dr. Aghedo has been working as a Shell Community development ambassador to Ukwu-West local government, Abia state, Nigeria

Avishkar Koosiale, SASOL, Environmental officer and air pollution expert for South Africa largest petrochemical industry.

Karsten Fuglsang, R&D Co-ordinator at FORCE Technology. Mr. Fuglsang is a senior project manager in air quality management and monitoring, and he has more than 24 years of experience in the field of air pollution. Mr. Fuglsang has worked in this field in a number of countries in Eastern Europe and Asia.

Dr. Kevin Hicks, Stockholm Environmental Institute, York, England Department for Atmospheric Environment has been a research associate at SEI since 1997 and has 15 years experience in the field of air pollution. He holds a PhD in plant ecophysiology and air pollution and a master in Plant Science.

Other Attendensee

PhD. stud Ngo Tho Hung, Transport engineer. Specialist in traffic planning and air pollution management, project leader for the World Bank with respect to air pollution management in Hanoi, Vietnam. Currently attached at NERI as a PhD. student in order to facilitate research knowledge and modeling know-how to Vietnam.

Julião J. Cumbane. Lecturer (Environmental Physics) and Researcher Associate of the *Energy, Environment and Climate Research (EECR) Programme*, Department of Physics, Faculty of Science, Eduardo Mondlane University (UEM), Maputo, Mozambique. Representative of the Air Pollution Information Network-Africa (APINA) for Mozambique. Coordinator of the APINA Rapid Urban Assessment (RUA) Activity. Over 10 years of research experience in atmospheric sciences, specialising in air pollution and air quality management. Holds MSc in Physics (University of the Witwatersrand, Johannesburg) and is PhD Candidate in Environmental Science-Remote Sensing of Atmospheric Aerosols (University of Johannesburg, South Africa).

Other attending institutions

EEA, UNEP-Riso, WHO
FORCE, Energy Analyse (EA), Rambøll, DHI
NILU, Stockholm Environmental Institute (SEI)
RUC, Aarhus University (AU), KU
Danida, SIDA

Please note that changes can occur in the program, further workshop info at;

The main organiser hereby invites all interested persons to take part in first DDRN workshop on Urban Environmental Management and Air Quality in Less Developed Countries. Furthermore, all participants are encouraged to contribute to a **pre-workshop paper** in order to outline experiences, recommendations, and suggestions to a shared strategy paper addressed to development aid institutions in the Nordic countries. For registration, further information and in order to contribute to the paper, please send an email to Peter Vangsbo Madsen at pvm@dmu.dk.

Kind regard

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