NCGG-5, Wageningen, June 30 - July 3, 2009

Preregistration and response to Call for Papers

(preferentially using our website www.ncgg5.org)

Name
Affiliation
Address
Country
Phone Fax
E-mail
 will submit an abstract for a presentation (by e-mail only) to cfp@ncgg5.org not later than December 1st, 2008) Title:
 considers participation in the symposium; please send a programme and registration form to the above address
 would be interested in an exhibition on NCGG-related technology (please mention topic)
□ would be interested to visit an industrial or agricultural demonstration project
☐ has other suggestions (max. 100 words)
Please send this form to: VVM. P.O. Box 2195. NL-5202 CD DEN BOSCH. The Netherlands

E-mail: office@ncgg5.org +31 73 621 6985 Fax:

Organizing Committee

Han van Dop, Utrecht University, co-ordinator Herman Jan Wijnants, VVM, treasurer Peter Builties, VVM, TNO Charlotte Hoefsloot, VVM secretariat André van Amstel, WUR Erik ter Avest, SenterNovem Heleen de Coninck, ECN Rachel Heijne, VVM, director Herman Walthaus, Netherlands Ministry of Housing, Spatial Planning and the Environment Tinus Pulles, TNO Peter van Velthoven, KNMI

Conference Committee

Paul Crutzen, Scripps Institution for Oceanography, USA (honorary chairman) Bert Metz, National Institute for Public Health and the Environment and Netherlands Environmental Assessment Agency.

The Netherlands (honorary chairman) André van Amstel, WUR, The Netherlands Kornelis Blok, Utrecht University, The Netherlands Heleen de Coninck, ECN, The Netherlands Thor Endre, ABB AS, Norway

Paul Gunning, Environmental Protection Agency, USA Jochen Harnisch, Ecofys, Germany Hennie Kelder, KNMI, The Netherlands

Maarten Krol, WUR, The Netherlands Keith Lassey, NIWA, New Zealand Adrian Leip, Joint Research Centre, Italy

Ingeborg Levin, Heidelberg University, Germany Mack McFarland, Dupont Fluoroproducts, USA Hink Perdok, Provimi, The Netherlands

Javier Pérez Ramirez, ICREA, Spain Tinus Pulles, TNO, The Netherlands Frank Raes, Joint Research Centre, Italy

Henk van der Ree, The Netherlands Thomas Röckmann, IMAU, The Netherlands

Mauricio Rosales, FAO, Italy

Michael Rumberg, NobleCarbon, Germany Harry Thewissen, NXP Semiconductors, The Netherlands

David Ugalde, Australian Greenhouse Office, Australia Peter van Velthoven, KNMI, The Netherlands

Han van Dop, secretary for theme 1 and 2 Erik ter Avest, secretary for theme 3

Symposium secretariat_

VVM/MILCON

P.O. Box 2195, 5202 CD Den Bosch, The Netherlands Tel. +31 (0)73-621 5985, Fax: +31 (0)73-621 6985 E-mail: office@ncgg5.org

A regularly updated website with information on all available details of the symposium can be accessed through:

www.ncgg5.org



Organised by the Netherlands Association of Environmental Professionals (VVM)

Fifth International Symposium on

Non-CO2 Greenhouse Gases (NCGG-5)

Science, Reduction Policy and **Implementation**

Wageningen, The Netherlands June 30 - July 3, 2009

In support of the IPCC process

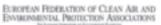
In cooperation with:



Netherlands' Ministry of Housing, **Spatial Planning and Environment**



SenterNovem (Netherlands Agency for Innovation and Sustainability)





IEA GHG R&D Programme





Intergovernmental Panel on Climate Change



US Environmental Protection Agency



European Commission



Royal Netherlands Academy of Arts and Sciences



UN Food and Agricultural Organisation



Australian Greenhouse



GLOBAL International Geosphere-**Biosphere Programme**

Introduction

The awarding of the Nobel Prize for peace to the IPCC and Al Gore in 2007, acknowledges the importance of scientific progress in climate change research and recognizes our increasing concern about the possible consequences of climate change on global environment and human society.

The political debate on measures to reduce the emission of greenhouse gases is making progress. It focuses mainly on the reduction of CO_2 , which is a major, but not the only contributor to climate change. The major non- CO_2 greenhouse gases (methane (CH_4) , nitrous oxide (N_2O) and halocarbons) contribute, compared to CO_2 , 60 % of the radiative forcing. This presents attractive opportunities in NCGG emission reductions.

From June 30 to July 3, 2009, the Air Quality and Climate Change Section of the Netherlands Association of Environmental Professionals (VVM) organizes its Fifth International Symposium on science, implementation and policy aspects of non-CO₂ greenhouse gases (NCGG-5).

NCGG-5 will be held in Wageningen in The Netherlands and will address not only the role of non-CO₂ greenhouse gases and aerosol in human-induced climate change, but also options for reduction and implementation in industry and society.

The symposium aims to remove barriers beween policy, industry and science and fosters the dialogue between scientists, engineers and officials in industry and government who are all, though from a different perspective, involved in non-CO2 greenhouse gas issues. This multidisciplinary approach is expected to yield realistic and achievable mitigation solutions that significantly lower NCGG emissions.

The conference welcomes papers on the themes presented below.

Themes for NCGG-5

The symposium will focus on the non- CO_2 greenhouse gases (NCGGs); for that reason papers on general aspects of climate change or referring to CO_2 alone, will not be accepted. A new issue in this conference series is the role of aerosols in climate change. The magnitude of radiative forcing of aerosols is equal, but of different sign, to all NCGGs together. A further study to their formation, abundance, future trends and interrelationship with NCGG emissions is therefore desired and relevant in this symposium.

Apart from the plenary opening and closing sessions, the symposium will be conducted in parallel sessions, focussing on the main themes:

- 1. Sources, sinks and inventories
- 2. Monitoring and modelling of atmospheric composition
- 3. Mitigation options and reduction policy and implementation.

1. Sources, sinks and inventories

Data on sources and sinks are basic for understanding atmospheric composition and change in climate forcing, for emission inventories at different scales, and as input for models at varying scales. Topics for contributions could include:

- combustion in stationary and mobile sources: various emissions from fossil fuels, biofuels and biomass burning, including forest fires
- industrial processes: fluorinated gases, nitrous oxide and methane
- crop production: (N)-nutrient cycling in agriculture, and related emissions from soils and aquatic systems; methane from biomass; management systems
- animal husbandry: methane from anaerobic processes in animals and manure
- facility level inventories: farm scale and site specific budgets
- natural sources and sinks
- progress in emission inventories: national reports and their verification against atmospheric data
- process-based high Tier emission models
- primary aerosol emissions
- verification of emissions and emission inventories and assessing uncertainties, taking into account possible new anthropogenic sources of NCGGs

2. Monitoring and modelling of atmospheric composition

There is a great need at various scales for reliable data for all greenhouse gases and other trace components which directly or indirectly affect the radiation balance, in order to improve the quality of emission inventories. Reports to be considered include the following topics:

- atmospheric processes
- relation between greenhouse gases and air pollution
- primary and secondary aerosols and their influence on the radiative balance
- monitoring of emissions and atmospheric composition from space
- monitoring at background stations and high towers and from aircrafts
- verification of emission fluxes and source strengths
- atmospheric budgets of greenhouse gases and related biogeochemical cycles
- modelling studies at varying scales, including inverse modelling

3. Mitigation options, reduction policy and implementation

NCGG emissions have already been partly reduced through implementation of non-climate, climate and specific NCGG directed policies. However, there is still room for considerable improvement in industry and especially in agriculture. Implementation of cost-effective policies and measures as well as new technologies both in the public and private sectors will contribute to further accelerating and increasing NCGG reduction. Reports and position papers could include the following topics on policy and implementation issues, including assessments of implementation programmes for NCGG-reduction and innovative approaches in policy implementations:

- new developments in national and international programmes
- fluorinated gases: alternatives for specific gases like HFCs

- the role of NCGGs in attaining national commitments for the first phase of the Kyoto Protocol
- evaluation of national and international policies and measures to reduce air pollution and greenhouse gas emissions, identification of trade-offs
- flexible instruments: Emissions Trading, Joint Implementation, Clean Development Mechanism and other policy options
- development of integrated policies for air quality and climate change
- inclusion of NCGGs in Emissions Trading Schemes
- economic analyses and scenario studies, including technology changes

Call for papers.

Participants interested in presenting a paper or poster on any of the mentioned themes and topics which have not been previously published in the open literature, are invited to e-mail an abstract in English with a maximum of 250 words to:

Han van Dop Co-ordinator Organizing Committee cfp@ncgg5.org www.ncgg5.org

Tel: +31 73 621 5985 Fax: +31 73 621 6985

Please provide a title and the name(s) of the author(s) and their affiliations. The text body should contain a problem definition, a brief indication of the research or implementation methods, main results and conclusions.

Abstracts should be received by December 1st, 2008. Notice on acceptance of proposals will be given by March 1st, 2009. Authors of selected papers will be asked to prepare a digital copy not later than June 1st, 2009, for inclusion in the CD-ROM which will be made available at the beginning of the conference. A selection of papers will be published in a peer reviewed international journal. The invitation to prepare a paper for review and authors instructions will be sent to you upon acceptance by the Conference Committee.

Invited contributions

At the symposium a number of invited review papers will be presented.

Conference chair_

The conference will be co-chaired by Paul Crutzen, Scripps Institution for Oceanography, and Bert Metz, Co-chairman of IPCC Working Group III.

Venue_

Hotel and Congress Centre WICC, Wageningen, The Netherlands, June 30 – July 3, 2009.

Website: www.wicc.nl (also for hotel booking)

Congress language_

The congress language is English.