

Tuesday, 30

June

PLENARY SESSION

9:00 Opening
chair: Rachel Heijne/Han van Dop

Welcome by the president of the VVM
address by the rector magnificus of Wageningen University
address by the Dutch minister of Housing, Spatial Planning and Environment

Plenary Lectures

9:30 IGBP, Sybil Seitzinger
10:15 Sustainability, Leen Hordijk
11:00 plenary Q&A session and introduction to interactive session
chair: Erik ter Avest

11:30 BREAK

PARALLEL SESSIONS

THEME I

Industrial processes, Crop production and Animal husbandry

session 1.1
chair: André van Amstel

11:50 DIFFERENCES IN N₂O EMISSION FROM FERTILIZED GRASSLAND AND ARABLE LAND IN SANDY SOILS J. Mosquera, G.L. Velthof, J. Huis in 't Veld, E. Hummelink

12:20 ESTIMATING INDIRECT AGRICULTURAL EMISSION FROM AQUIFERS USING DISSOLVED NO₃⁻, N₂O AND N₂ Reinhard Well, Daniel Weymann, Heiner Flessa

12:40 PREDICTING THE IMPACT OF CHANGING FERTILIZER USE, LAND-USE AND CLIMATE ON NITROUS OXIDE EMISSION IN IRELAND Dong-Gill Kim, Paul Leahy, Gerard Kieley

THEME II

General papers on methane

session 2.1
chair: Torben Christensen

11:50 BALANCING THE GLOBAL METHANE BUDGET: CONSTRAINTS IMPOSED BY ISOTOPES AND ANTHROPOGENIC EMISSION INVENTORIES, Keith R. Lassey, Shaun Ragnauth

12:20 UV LIGHT INDUCES METHANE EMISSION FROM PLANT BIOMASS: MECHANISM AND ISOTOPE STUDIES I. Vigano, R. Holzinger, T. Röckmann, A. van Dijk, F. Keppler, M. Greule, W.A. Brand, H. van Weelden, J. van Dongen

12:40 METHANE EMISSIONS: SPATIAL- AND SEASONAL VARIABILITY IN TWO MANAGED PEAT MEADOWS IN THE NETHERLANDS AND THE COMPARISON OF SMALL SCALE AND LARGE SCALE MEASUREMENT TECHNIQUES A.P. Schrier-Uijl, P. Kroon, E.M.Veenendaal, P.A. Leffelaar and F. Berendse

THEME III

Industry

session 3.1
chair: Hink Perdok

11:50 PFC EMISSION REDUCTION BY THE SEMICONDUCTOR INDUSTRY F. Illuzzi, Harry Thewissen

12:20 ANALYSIS OF REPORTED EUROPEAN EMISSIONS SHOWS IMPROVEMENT IN CONTAINMENT OF HYDROFLUOROCARBONS Archie McCulloch and Tim Vink

12:40 ENERGY SAVINGS AND HFC REDUCTION- DATA HOTELS CAN ACHIEVE DOUBLE GREEN BENEFITS Maus Dieleman

13:00 LUNCH BREAK

Industrial processes, Crop production and Animal husbandry (ctd)

session 1.1
chair: Reinhard Well

14:00 ESTIMATION OF N₂O EMISSION FACTORS FOR SOILS DEPENDING ON ENVIRONMENTAL CONDITIONS AND CROP MANAGEMENT Jan Peter Lesschen, Gerard Velthof

14:20 ASSESSMENT OF THE IMPACT OF VARIOUS MITIGATION OPTIONS ON NITROUS OXIDE EMISSIONS CAUSED BY THE AGRICULTURAL SECTOR IN EUROPE Hans Kros, Wim de Vries, Gerard Velthof, Gert Jan Reinds, Jan Peter Lesschen

14:40 FIELD MANAGERMENTS AFFECT YIELD, SOIL CARBON, AND GREENHOUSE GASES EMISSION OF WINTER WHEAT IN NORTH CHINA PLAIN Yunfan Wan, Yu'e Li, Qin Zhu Gao, Xiaobo Qin, Erda, Lin

15:00 MEMBRANE INLET MASS SPECTROMETRIC ANALYSIS OF WETLAND SEDIMENTS USING N-ISOTOPE LABELLING: THE EFFECTS OF TEMPERATURE, NITRATE ADDITION AND WATER TURBULENCE ON GASEOUS EMISSIONS. W. E. McAuley, D. S. Reay, K. A. Smith, K. V. Heal

15:20 METHANE MITIGATION POTENTIAL OF A GARLICDERIVATIVE, YUCCA AND CA-FUMARATE IN LACTATING DAIRY COWS S.M. van Zijderdeld, J.R. Newbold, J. Dijkstra, W.J.J. Gerrits, H.B. Perdok

General papers on methane (ctd)

session 2.1
chair: Maarten Krol

14:00 MICROMETEOROLOGICAL OBSERVATIONS OF CH₄ AND N₂O AT A MANAGED FEN MEADOW IN THE NETHERLANDS P.S. Kroon, A. Hensen, H.J.J. Jonker, W.H. van 't Veen, A.T. Vermeulen

14:20 METHANE AND NITROUS OXIDE EMISSIONS IN THE NETHERLANDS: AMBIENT MEASUREMENTS COMPARED TO THE NATIONAL INVENTORIES S. van der Laan, R.E.M. Neubert, H.A.J. Meijer

14:40 IN-SITU CH₄ OBSERVATIONS AT THE HIGH-ALPINE SITE JUNGFRAUJOCH M. Steinbacher, M.K. Vollmer, S. Henne, D. Brunner, C. Hueglin, S. Reimann

15:00 HIGH-PRECISION MEASUREMENTS OF COLUMN-AVERAGED CO₂ AND CH₄ DERIVED FROM NEAR-INFRARED FTS AT THE TCCON SITE GARMISCH (47 °N, 11 °E, 744 M ASL): FIRST YEAR OF OPERATION AND CONTRIBUTION TO OCO VALIDATION R. Sussmann, M. Rettinger, T. Borsdorff, F. Forster

15:20 ATMOSPHERIC CH₄ AND N₂O MEASUREMENTS IN THE FRENCH NETWORK OF GREENHOUSE GAS MONITORING (RAMCES) Martina Schmidt, Michel Ramonet, Marc Delmotte, Mathilde Grand, Cyril Messager, Claire Peureux, Camille Yver and Philippe Clais

Industry (ctd)

session 3.1
chair: Harry Thewissen

14:00 LOW GLOBAL WARMING FLUOROCARBONS Ian R. Shankland, Rajiv R. Singh

14:20 COST-EFFECTIVE GREENHOUSE GAS EMISSIONS REDUCTIONS BY SWITCHING TO A NEW MOBILE AIR CONDITIONING REFRIGERANT Kristen N. Taddonio, Stephen O. Andersen

14:40 GREEN SWITCHING - OPPORTUNITY TO AVOID SF₆ EMISSION FROM ELECTRICAL NETWORKS, Wim Porte

15:00 PROGRESS IN REPLACING HFCs IN FIRE PROTECTION AND SF₆ IN MAGNESIUM PROCESSING K.T. Werner

15:20 REDUCING GREENHOUSE GAS EMISSIONS THROUGH PROPER SF₆ HANDLING PROCEDURES - STATE OF THE ART IN THE EUROPEAN INDUSTRY Jean-Luc. Bessède, Thor Endre

15:40 BREAK

Industrial processes, Crop production and Animal husbandry (ctd)

session 1.1
chair: Adrian Leip

16:00 MODELLING EFFECTS OF GRASS MANAGEMENT ON MANURE N AND METHANE EMISSION IN LACTATING COWS A. Bannink, J.L. Ellis, J. France, J. Dijkstra

16:20 QUANTIFICATION OF GREENHOUSE GAS EMISSIONS FROM SOIL APPLIED SWINE EFFLUENT BY DIFFERENT METHODS K. R. Sistani, J. G. Warren, S. Shearer, and S. Higgins

16:40 EFFECT OF STRAW BEDDING IN PIG HOUSING ON EMISSION OF GREENHOUSE GASES C.M. (Karin) Groenestein

17:00 INNOVATION IN ANIMAL FEED: EFFECTS AND FEASIBILITY OF CHANGES TO ANIMAL FEED Jan van Bergen

17:20 FUTURE DEVELOPMENT OF THE UPSTREAM GHG EMISSIONS FROM NATURAL GAS INDUSTRY, FOCUSING ON RUSSIAN GAS FIELDS AND EXPORT PIPELINES Stefan Lechtenböhrner, Carmen Dienst

17:40 end sessions

General papers on methane (ctd)

session 2.1
chair: Peter Bergamaschi

16:00 ARE METHANE CONCENTRATION TRENDS IN LINE WITH METHANE EMISSIONS? M. Roemer, Arjo Segers, Peter Bergamaschi

16:20 VALIDATION OF METHANE DATA PRODUCTS FROM CHEMISTRY TRANSPORT MODELS AND SCIAMACHY SATELLITE RETRIEVAL ALGORITHMS, USING A QUASI-GLOBAL NETWORK OF FTIR STATIONS B. Dils, M. DeMazière, C. Vigouroux, F. Forster, R.Sussmann, T. Borsdorff, P. Bousquet, T. Blumenstock, M. Buchwitz, S. Dalsoren, P. Demoulin, P. Duchatelet, C.Frankenberg, J. Hannigan, F. Hase, I. Isaksen, N. Jones, J.Kyrt, I. Kramer, E. Mathieu, J. Mellqvist, L. Neef, J. Notholt, K. Petersen, I. Pison, O. Schneising, A.Strandberg, K. Strong, S. Szopa, J. Taylor, P. van Velthoven, M. van Weele, S. Wood

16:40 GLACIAL WETLAND DISTRIBUTION AND METHANE EMISSIONS ESTIMATED FROM AN ENSEMBLE OF COUPLED CLIMATE SIMULATIONS. Weber,S.L., W.H.J. Toonen

17:00 INVERSE MODELING OF CH₄ FLUX FROM SCIAMACHY AND GROUND-BASED OBSERVATIONS USING TMS/4D-VAR Lisa Neef, Michiel van Weele, Peter van Velthoven

Industry (ctd)

session 3.1
chair: Javier Pérez Ramirez

16:00 THE F-GHGS VERIFYING PROCESS IN THE TAIWAN OPTOELECTRONIC SEMICONDUCTOR INDUSTRY, Joey (Ching-Hui) Lu, Hwei-Wei Lo, LU-Hsiu Cheng

16:20 UHDE ENVINOX® TECHNOLOGY FOR NO_x AND N₂O ABATEMENT - A CONTRIBUTION TO REDUCING EMISSIONS FROM NITRIC ACID PLANTS, Michael Groves, Alexander Sassonov

16:40 METHANE MITIGATION OPPORTUNITIES IN THE OIL AND GAS SECTOR: OVERVIEW AND EXPERIENCE OF GAS STAR INTERNATIONAL PARTNERS Meredydd Evans

17:00 OPPORTUNITY, POTENTIAL AND BARRIER FOR ENERGY PRODUCTION FROM METHANE UTILIZATION IN AGRICULTURE AND SOLID WASTE MANAGEMENT. Sירתנתהפ Towprayoon

17:20 DRAMATIC REDUCTION IN EMISSIONS OF METHANE FROM LANDFILLS Maria Vatamanu, René Boerboom

17:40 UNUSED METHANE ESCAPES FROM CHP STATION CHIMNEYS - PERSPECTIVE: POWER BENEFITS AND EMISSION REDUCTIONS IN GLASSHOUSE HORTICULTURE, Maus Dieleman