

NCGG FINAL PROGRAM

WEDNESDAY 2 NOVEMBER					
Plenary Session - all plenary sessions are in room "University of Amsterdam 2-4" Chair: Carolien Kroeze (Wageningen University / Open University of The Netherlands)					
8:30	Vera Dalm (VMM, The Netherlands)				
8:45	Mike Hulme (University of East Anglia, UK) - Why we disagree about climate change				
9:30	Wilfried Winiwarter (IIASA, Austria) - Cost efficiency in greenhouse gas mitigation: the role of non-CO ₂ compounds				
10:15	Break				
Parallel Sessions Room: "University of Amsterdam 1"	Parallel Sessions Room: "Stellenbosch"	Parallel Sessions Room: "Sorbonne"	Parallel Sessions Room: "Oxford"	Parallel Sessions Room: "University of Amsterdam 2-4"	
Session 1.1: Animal Production <i>Chair: Erik ter Avest</i> The role of animal feed diet in the reduction of non-CO ₂ greenhouse gas emissions including science-policy interactions and perspectives Erik ter Avest, Fernagut, Marianne	Session 2.1: N ₂ O direct emissions <i>Chair: Karin Groenestein</i> Emission factors for methane and nitrous oxide from manure management and mitigation options Groenestein, C.M.J. Mosquera, S.M. van der Sluis	Session 3.1: Atmospheric measurements (ground-based monitoring) <i>Chair: Michela Maione</i> Long term measurements of non-CO ₂ greenhouse gases at the WMO-GAW Global station of Monte Cimone, Northern Apennines, Italy Michela Maione, Umberto Giostra, Jgor Arduini, Francesco Furlani, Francesco Graziosi, and Paolo Bonasoni	Session 4.1: Policy <i>Chair: John van Aardenne</i> On the role of non-CO ₂ greenhouse gas emissions in long-term (2050) climate mitigation policies John van Aardenne, Ricardo Fernandez, Francois Dejean, Andreas Barkman, Hans Eerens and Robert Koelmeijer	Session 5.1: Regional inventories <i>Chair: André van Amstel</i> Assessment of Air Pollution and GHG Mitigation Strategies for Pakistan using the GAINS Model Tahira Munir	
11:00	11:00	11:00	11:00	11:00	
11:30	Does biodiversity ameliorate the trade-off between productivity and non-CO ₂ Greenhouse Gas emission rates in forage crops? Ribas A., Llurba R., Gouriveau F., Altimir N., Connolly J. and Sebastià M.T.	11:30 The effect of changes in groundwater level on N ₂ O emissions for various soil conditions P.C. Stolk, C.M.J. Jacobs and E.J. Moors	11:30 An analysis of three years of CO ₂ , CH ₄ , N ₂ O and SF ₆ observations and 222Radon-based emission estimates from the JRC-Ispra (Italy) monitoring station Bert Scheeren and Peter Bergamaschi	11:30 Global projections for anthropogenic reactive nitrogen emissions to the atmosphere: an assessment of scenarios in the scientific literature Detlef P van Vuuren, Lex F Bouwman, Steven J Smith and Frank Dentener	11:30 Elevated CH ₄ levels in regional atmosphere over Silesia, southern Poland J. Necki, M. Zimnoch, L. Chmura, A. Korus, J. Rosiek, M. Galkowski, K. Rozanski
11:50	Hans Oonk, Jan Koopmans		Methane emissions from Africa: evaluation of observations from CARIBIC passenger aircraft flights between Frankfurt and Cape Town/Johannesburg Carl A.M. Brenninkmeijer, Tanja Schuck, Angela Baker, Armin Rauth-Schoch, and Andreas Zahn		11:50 Future impact of non-land based traffic emissions on atmospheric ozone and OH – an optimistic scenario and a possible mitigation strategy Ø. Hodnebrog, T. K. Berntsen, M. Gauss, V. Grewe, I. S. A. Isaksen, B. Koffi, G. Myhre, D. Olivé, M. Prather, F. Stordal, S. Szopa, Q. Tang, P. van Velthoven, J. E. Williams, K. Ødeemark
12:10	Genetic selection for lower predicted methane emissions in dairy cattle Y. de Haas, J.J. Windig, M.P.L. Calus, A. Bannink, M. de Haan, J. Dijkstra, R.F. Veerkamp		Changes in the correlation slope of the atmospheric CO ₂ and CH ₄ for the pollution events at Hateruma island: recent increase in the seasonal CH ₄ emissions from China? Y. Tohjima, M. Kubo, H. Mukai, T. Machida, C. Minejima, and K. Kita	12:10 Managing agricultural greenhouse gas emissions: linking theory and policy Dominic Moran, Bob Rees and Antje Branding	12:10 Monitoring Methane Emissions from Northern Peatlands: A modelling and measurement approach Marin A. Tomasic, Timo Vesala, Sampsa Smolander, Maarit Raivonen, Sami Haapanala, Tuomas Laurila, Miika Aurela
12:30	Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch
Session 1.2: Mechanistic understanding and model predictions <i>Chair: Brajesh K Singh</i> Role of nitrogen in carbon mitigation in forest ecosystems Catriona A Macdonald, Ian C Anderson, Richard D Bardgett and Brajesh K Singh	Session 2.2: N ₂ O Indirect emissions <i>Chair: Daniel Weymann</i> Indirect emissions and isotopologue signatures of N ₂ O from agricultural drainage water of a Pleistocene lowland catchment in North-Eastern Germany D.Weymann, R.Well, P. Kahle, B. Tiemeyer and H. Flessa	Session 3.2 Atmospheric measurements (ground-based monitoring) <i>Chair: Chair: Arjan Hensen</i> InGOs: the EU observation network for NCGG Arjan Hensen, Alex Vermeulen, Albert Bleeker	Session 4.2: Emission reduction from agriculture <i>Chair: Harm Smit</i> Progress and results of Dutch covenant with agricultural sectors on improvement of energy-efficiency and emission reduction of greenhouse gases including methane and nitrous oxide Smit, Harm, Plantinga, Martijn, Bonnier, Puck, Moerkerken, Albert	Session 5.2: Global Methane Initiative (GMI) <i>Chair: Paul Gunnning</i> GMI's Focus on Methane in the Wastewater Sector Chris Godlove	
13:30	13:30	13:30	13:30	13:30	
14:00	Interactions between nitrogenous fertilizers and methane cycling in wetland and upland soils Paul LE Bodenier	14:00 The impact of global warming on nutrient export by rivers and associated nitrous oxide emissions Irene Boers, Carolien Kroeze	14:00 Long-term monitoring of non-CO ₂ greenhouse gases and aerosols in Asia and Oceania using voluntary observing ships Hiroshi Tanimoto, Hideki Nara, Hitoshi Mukai, Yukihiko Nojiri, Yasunori Tohjima, Toshinobu Machida, Yoko Yokouchi, Shigeru Hashimoto	14:00 Non-CO ₂ emissions and reduction potentials from AFOLU in Asia Tomoko Hasegawa and Yuzuru Matsuo	14:00 Evaluation of greenhouse gas emissions from municipal UASB sewage treatment plants B. Heffernan, J. Blanc, H. Spanjers
14:20	Soil microbial sources of nitrous oxide: recent advances in knowledge, emerging challenges and future direction Elizabeth M Baggs	14:20 Modeling Global Trends in N Flows from Land to Sea and Associated N ₂ O Emissions Wilfried P.M.F. Ivens, Carolien Kroeze, Ansje J. Löhr, Daisy J.J. Tysmans, Jikke van Wijnen	14:20 In-situ high accuracy measurement of atmospheric methane mixing ratios at the four GAW stations in China Ling-XI ZHOU	14:20 Cost-Effectiveness and Efficiency of national and international policy instruments to reduce non-CO ₂ greenhouse gas emissions by the agricultural sector Avest, Erik ter, Fernagut, Marianne	14:20 Opportunities for incorporation of biogas capture and utilization in Brazil – a perspective for wastewater treatment plants Eduardo P. Jordão, Dr. Eng.
14:40	Assessing existing peatland models for their applicability for modelling greenhouse gas emissions from tropical peat soils Jenny Farmer, Robin Matthews, Jo U Smith, Pete Smith and Brajesh K Singh	14:40 New findings of oceanic sink of atmospheric nitrous oxide Marcela Cornejo, Laura Farias, Mauricio Gallegos and Juan Faúndez	14:40 Atmospheric CH ₄ and N ₂ O measurements in the French Network of Greenhouse Gas Monitoring (RAMCES) Martina Schmidt, Morgan Lopez, Marc Delmotte, Isabelle Pison, Michel Ramonet, Camille Yver, and Philippe Claes	14:40 The Situation of Non CO ₂ Greenhouses Gases Air Pollution in Uganda Moses Kusemererwa	14:40 Towards more sustainable technologies for wastewater treatment in Latin America: is biogas production an opportunity or a threat? Adalberto Noyola
15:00	Soil emissions of nitrous oxide and nitric oxide in response to incremental increases in fertilizer additions in a maize (Zea mays) field in western Kenya Jonathan E. Hickman, Cheryl A. Palm, Jim Tang, Jerry M. Mello, and Patrick Mutuo	15:00 A preliminary analysis of the relationship among the concentrations of N ₂ O, NO _x , and CO ₂ in grainage water flow lysimeters with shallow groundwater table Kazunori Minamikawa, Seiichi Nishimura, Kazuyuki Yagi	15:00 Comparisons of TransCom models simulated methane vertical profiles with in situ observations Ryu Saito, Prabir K. Patra, Colm Sweeney, Toshinobu Machida, and TransCom-CH4 modelers	15:00 Mitigation of nitrous oxide emissions from Irish agriculture: A prospective analysis M. I. Khalil, M. Kuhs, and C. Byrne	15:00 Methane emissions from tropical and temperate wetland trees Sunitha R. Pangala, Vincent Gauci, Edward R. Hornbrook and David J. Gowling
15:20	Break	15:20 Break	15:20 Break	15:20 Break	15:20 Break
Session 1.3: Deforestation <i>Chair: Lou Verchot</i> CH ₄ and N ₂ O flux changes from forest conversion to rubber and oil palm plantation in Jambi, Sumatra, Indonesia Aini, F. K., Hergualc'h, K., Verchot, L. V., Smith, J.	Session 2.3: N and N ₂ O modeling <i>Chair: Wim de Vries</i> Impacts of management measures on nitrous oxide emissions from agricultural soils in Europe using different model approaches Wim de Vries, Hans Kros and Gert Jan Reinds	Session 3.3: Satellite observations <i>Chair: Sander Houweling</i> Methane and Carbon dioxide from space: the SCIAMACHY, GOSAT and Precursor S5 missions Sandrine Guerlet, Dinand Schepers, Andre Galli, André Butz, Christian Frankenberger, Otto Hasekamp, Sander Houweling, Jochen Landgraf, Ilse Aben,	Session 4.3: Emission reduction from agriculture and sewage <i>Chair: Robert H. Beach</i> Global Marginal Abatement Cost Curves for Agricultural GHG Emissions Robert H. Beach, Sara Bushey Ohrel, and Shaun Ragnauth	Session 5.3: Young Scientist Session <i>Conveners: Petra Stolk, Robbert Biesbroek, Clifford Chuah, Sunitha Pangala</i>	
15:50	15:50	15:50	15:50	15:50	
16:20	Changes in soil CH ₄ fluxes from the conversion of tropical peat swamp forests: a meta-analysis Hergualc'h K., Verchot L.V.	16:20 Climatic consequences of anthropogenic reactive nitrogen input to terrestrial ecosystems Sönke Zaehele, Philippe Ciais, Andrew D. Friend, Vincent Pierre	16:20 Inverse modeling of the recent trend and inter-annual variation of CH ₄ emissions using in situ measurements and SCIAMACHY S. Houweling, P. Bergamaschi, M. Krol, C. Frankenberger, E.J. Dlugokencky and I. Aben	16:20 Review on trade-offs and co-benefits from climate mitigation measures in agricultural production Verspecht Ann, Vandermeulen Valerie, Ter Avest Erik, Van Huyenbroeck Guido	How to achieve a sustainable 2061? Contributors: Matthijs Hisschemöller, Jasper van Vliet
16:40	Forest soil as sink or source of greenhouse gases: a case study of species effects on nitrous oxide and methane fluxes in Karura forest - Kenya Thiongo Margaret K., Mungai David N., Musingi John K., Neufeldt H. and Verchot Louis V.	16:40 Application of Landscape-DNDc for the assessment of regional greenhouse gas emissions for the State of Saxony, Germany under different climate and land use change scenarios from 2000 to 2050 Edwin Haas, Ralf Kiese, Steffen Klatt, Alexander Fröhlich, Klaus Butterbach	16:40 Inter-comparison of GOSAT and SCIAMACHY xCH ₄ retrievals, and implications for inverse modeling of methane sources and sinks Guillaume Montell, Sander Houweling, Sandrine Guerlet, Dinand Schepers, Ilse Aben, Thomas Roekmann	16:40 Nutritional management to reduce the carbon footprint of dairy and beef products H.B. Perdok, R.B.A. Hulshof, J.B. Veneman, J.R. Newbold and S.M. van Zijderweld	This highly interactive session aims to bring together young scientists from different disciplines and discuss how to achieve a sustainable 2061.
17:00	The effects of forest conversion to agriculture on nitrogen cycling and soil N ₂ O emissions at three highland sites in Western Kenya Louis V. Verchot, Henry Neufeldt, James Mutegi, Laure Dutaur and Margaret Thiongo	17:00 Evaluation of the impact of low versus high resolution data on nitrous oxide emissions from a rural landscape Hans Kros and Wim de Vries MSc, Dr. Geert-Jan Roelofs, Dr. Otto Hasekamp, Prof. dr. Thomas Roekmann	17:00 Estimation of aerosol water through combined analysis of remote sensing measurements and aerosol-hydrosorptivity modeling Arjan van Beelen	17:00 Ancillary benefits of greenhouse gas mitigation measures in the mid-term using AIM/Enduse/Global model Tatsuya Hanaoka	The key-note speakers will give their ideas on how to achieve a sustainable 2061, from a natural scientists and a social scientists point of view.
17:20	The effects of soil carbon stock changes on non-CO ₂ greenhouse gas fluxes in Western Kenya Henry Neufeldt, Louis V. Verchot, Keith Shepherd	17:20 Greenhouse gas emissions from the urban water cycle: CH ₄ and N ₂ O emissions from drinking water production, sewerage and wastewater treatment Marthe S. de Graaf, Marcel Zandvoort, Kees Roest, Jos Frijns, Theo Janse, Arjan Hensen, Mark C.M. van Loosdrecht	17:20 Methane variability in the upper troposphere and lower stratosphere and their relevance for emission inversions constrained by satellite observations Michiel van Weele, Jason E. Williams, Peter F.J. van Velthoven, Tanja J. Schuck, Carl A.M. Brenninkmeijer	17:20 Recent cases of reduction of greenhouse gas emissions by innovations in agricultural sector Ruud Thijssen	After the presentations we welcome you to our "world cafe" to discuss these issues further and reflect on the scientific challenges and lie ahead us.

THURSDAY 3 NOVEMBER					
Plenary Session – room "University of Amsterdam 2-4"					
<i>Chair: Tinus Pulles (TNO, The Netherlands)</i>					
8:30 Paul Gunning (US-EPA, US) - Opportunities to reduce non-CO ₂ greenhouse gases: emissions, mitigation options, policy approaches and the U.S. experience					
Parallel Sessions Room: "University of Amsterdam 1"	Parallel Sessions Room: "Stellenbosch"	Parallel Sessions Room: "Sorbonne"	Parallel Sessions Room: "Oxford"	Parallel Sessions Room: "University of Amsterdam 2-4"	
Session 1.4: Energy/Waste <i>Chair: Adrian Leip</i>	Session 2.4: Industry and F-gases <i>Chair: Erik ter Avest</i>	Session 3.4: Inverse modeling (Global) <i>Chair: Peter Bergamaschi</i>	Session 4.4: Global emissions <i>Chair: Jos Olivier</i>		
11:30 <i>Nitrous oxide production and emission in an intermittently aerated activated sludge system of an urban wastewater treatment plant in the tropics</i> William Z. de Mello, Débora C. Kligerman, Andrezza de S. Piccoli, Renato P. Ribeiro, Jaime L. M. Oliveira, Ariane C. Brotto	11:30 <i>Developing a Facility-level Reporting Program for Sources of Non-CO₂ Gases: The United States Experience</i> Lisa Hanle, Suzanne Kochi and Shaun Ragnauth	11:30 <i>Top-down estimates of European CH₄ and N₂O emissions based on 5 different inverse models</i> P. Bergamaschi, M. Corazza, A. Segers, A. Vermeulen, A.J. Manning, M. Athanassiadou, R. Thompson, I. Pison, P. Bousquet, U. Karstens, M. Schmidt, M. Ramonet, F. Meinhardt, T. Alto, L. Haszpra, J. Moncrieff, E. Popa, E.G. Nisbet, R.E. Fisher, M. Steinbacher, A. Jordan, S. O'Doherty, S. Placentino, and E. Dlugokencky	11:30 <i>EDGAR 4.2 FT2008 GHG emissions using the 2006 IPCC guidelines: uncertainties and comparisons for Annex I countries</i> Jos G.J. Olivier, Greet Janssens-Maenhout, Sudi Monni, Ulrike M. Döring, Marilena Muntean, John A. van Aardenne, Valerio Pagliari, Jeroen A.H.W. Peters		
12:00 <i>Control factors promoting nitrous oxide emissions from a conventional activated sludge process in a tropical country</i> Ariane Coelho Brotto, Débora Cynamon Kligerman, William Zamboni de Mello	12:00 <i>Leakage rate measurements of HFC refrigerants in Dutch supermarkets</i> M. Dieleman, R. Jans, G.H. ter Avest	12:00 <i>Global Reactive Gases Forecasts and Reanalysis in the MACC project</i> O. Stein, J. Flemming, A. Inness, J. Kaiser, M.G. Schultz	12:00 <i>Projections of Global Anthropogenic Non-CO₂ Greenhouse Gas Emissions</i> Shaun Ragnauth		
12:20 <i>Improvement of non-CO₂ Greenhouse Gas Emission Estimates for Oil and Gas Operations in Russia</i> Nina E. Uvarova		12:20 <i>Comparison of heavy perfluorocarbon top-down emission estimates with bottom-up inventories</i> Diane J. Ivy, Tim Arnold, Matthew Rigby, Munkhbayar Baasandorj, Jens Mühle, Chris M. Harth, Peter K. Salameh, L. Paul Steele, Michael Leist, Paul B. Krummel, Jim B. Burkholder, Paul J. Fraser, Ray F. Weiss and Ronald G. Prinn	12:20 <i>Global Anthropogenic Methane Emissions 2005 to 2030: Technical Mitigation Potential and Costs</i> Lena Höglund-Isaksson		
12:40 Lunch	12:40 Lunch	12:40 Lunch	12:40 Lunch		
Poster Session in the lobby					
Session 1.5: Role of N in climate change <i>Chair: Wim de Vries</i>	Session 2.5: F-gases <i>Chair: Stefan Reimann</i>	Session 3.5: Inverse modeling (Global) <i>Chair: Matthew Rigby</i>	Session 4.5: Mitigation options and measurements (GRA) <i>Chair: Andy Reisinger</i>		
14:30 <i>Quantifying impacts of nitrogen use in European agriculture on global warming potential</i> Wim de Vries, Johannes Kros, Gert Jan Reinds and Klaus Butterbach-Bahl	14:30 <i>Comparison of measurement-based global emission estimates of halocarbons with emission scenarios used in international assessments</i> Stefan Reimann, Martin K. Vollmer, Guus J. M. Velders, Matt Rigby	14:30 <i>Regional and global emissions of AGAGE gases using Eulerian and Lagrangian chemical transport models</i> Matt Rigby, Alastair Manning and Ron Prinn	14:30 <i>Improving the national inventory of agricultural nitrous oxide emissions from the UK (Inverh, Ory)</i> Chadwick, D; Rees, RM; Williams, J; Smith, P; Skiba, UM; Hiscock, K; Manning, AJ; Watson, C; Smith, KA; Anthony SG; Moorby J; Mottram T		
15:00 <i>Denitrification and associated soil N₂O emissions due to agricultural activities in a changing climate</i> Klaus Butterbach-Bahl and Michael Dannemann	15:00 <i>Estimating UK, Irish and North West European emissions of specific HFCs and SF₆ from 1995 to 2010 using the NAME-inversion methodology</i> A. J. Manning, S. O'Doherty, P. G. Simmonds and R. G. Derwent	15:00 <i>Reanalysis of tropospheric sulfate aerosol and ozone for the period 1980-2005 using ECHAM5-HAMMOZ</i> Luca Pozzoli, Greet Janssens-Maenhout, Thomas Diehl, Isabelle Bey, Martin Schultz, Hans Feichter, Elisabetta Vignati, and Frank Dentener	14:50 <i>New Zealand Validation and Field tests of GreenFeed, an automated system for the measurement of methane fluxes from ruminants</i> Gary Waghorn, Cesar Pinares, Patrick Zimmerman, Scott Zimmerman		
15:20 <i>The effect of farm and catchment management on nitrogen transformations and N₂O losses from pastoral systems – can we offset the effects of future intensification?</i> Cecile AM de Klein, Ross M Monaghan	15:20 <i>Tier 2 emission inventories for ozone-depleting substance substitutes compared to top-down chemical consumption data for the U.S.</i> David S. Godwin, P.E.	15:20 <i>Seasonal variability of regional N₂O flux estimated by inverse modeling</i> K. Ishijima, P. Patra, A. Crotwell, E. Dlugokencky, P. Tans, E.A. Kort, S.C. Wofsy and A. Itoh	15:10 <i>Effects of a nitrification inhibitor on soil nitrogen dynamics and N₂/N₂O emissions from Irish grassland soils after application of slurry</i> Errfors M, McGeough K, Laughlin RJ, Watson CJ, Müller C, Brennan F, Griffiths BS, Cahalan E, Richards KG		
15:40 <i>Dietary strategies to reducing N excretion from cattle: implications for methane emissions</i> J Dijkstra, O Oenema and A Bannink	15:40 <i>CHF3 (HFC-23) emission trend response to CHCF2 (HCFC-22) production and recent emission abatement measures</i> B. R. Miller, M. Rigby, L. J. M. Kuipers, P. B. Krummel, L. P. Steele, M. Leist, P. J. Fraser, A. McCulloch, C. Harth, P. Salameh, J. Mühle, R. F. Weiss, R. G. Prinn, R. H. J. Wang, S. O'Doherty, B. R. Greatly and P. G. Simmonds	15:40 <i>The TransCom-N₂O Experiment: Assessing the uncertainties in atmospheric inversion models for nitrous oxide emissions</i> R. L. Thompson, P. Patra, A. T. Vermeulen, U. Karstens, M. Corazza, P. Bergamaschi, K. Ishijima, E. Saito, P. Bousquet, F. Chevallier, E. Dlugokencky, C. Nevison, S. Zeehle, Y. Tohjima, E. Kort, S. Wofsy, T. Machida, C. Sweeny, T. Aalto, L. Haszpra, F. Meinhardt, S. O'Doherty, J. Moncrieff, M. E. Popa, M. Steinbacher, A. Jordan, T. Schick, C. A. M. Brenninkmeijer, M. Rigby, R. Prinn, R. Weiss, and P. Fraser	15:30 <i>Denitrification and the N₂O mole fraction of limed grassland soils in a long-term incubation</i> Suzanne Higgins, Ronald J. Laughlin, Catherine J. Watson		
16:00 Break	16:00 Break	16:00 Break	16:10 Break		16:00 Break
Session 1.6: Role of N in climate change <i>Chair: Sönke Zaehle</i>	Session 2.6: F-gases <i>Chair: Stefan Reimann</i>	Session 3.6: Inverse modeling (Regional) <i>Chair: Peter van Velthoven</i>	Session 4.6: Metrics/Radiative Forcing <i>Chair: Andé van Amstel</i>		Session 5.4: Dialogue on agriculture <i>Chair: Vera Dalm</i>
16:30 <i>Carbon-nitrogen interactions on land at global scales: current understanding in modelling climate biosphere feedbacks</i> Sönke Zaehle and Daniela Dalmonech	16:30 <i>Measurements of Halogenated Compounds at Gosan (Jeju Island, Korea) for Validation of Emissions from East Asia</i> Jooil Kim, Shanlan Li, Jens Mühle, Andreas Stohl, Sunyoung Park, Ray Weiss, Kyung-Ryul Kim	16:30 <i>Regional-scale atmospheric inversions of European CH₄ and N₂O emissions</i> U. Karstens, C. Rödenbeck, C. Gerbig, M. Heimann, T. Koch, P. Bergamaschi, K. Trusilova, A.T. Vermeulen, M. Schmidt, M. Ramonet, F. Meinhardt, T. Alto, L. Haszpra, J. Moncrieff, E.G. Nisbet, R.E. Fisher, M. Steinbacher, A. Jordan, S. O'Doherty, S. Placentino, and E. Dlugokencky	16:30 <i>GWP, alternative metrics, and their uncertainties</i> Katsumasa Tanaka, Terje Berntsen, Jan S. Fuglestvedt, Daniel J. A. Johansson, Brian C. O'Neill		16:30 <i>Highly interactive debating session, chaired by Vera Dalm (VVM), to share knowledge on solutions for the agricultural sector, and needs for agricultural innovations and policy framing</i>
17:00 <i>Nitrogen fertilizer induced greenhouse gas emissions in China</i> Xuejun Liu and Fusuo Zhang	17:00 <i>Implications of Non-Anode Effect Related PFC Emissions from Primary Aluminum</i> Sally Rand, Dr. Jerry Marks	17:00 <i>Methane in the Amazon: Atmospheric constraints from aircraft observations and forward and inverse modeling framework</i> V.Beck, C.Gerbig, R.Kretschmer, T.Koch, D.Pillai, U. Karstens, R.Ahmadov, M.M.Bela, K.M.Longo, S.R.Freitas, S.C.Wofsy, P.Araxo, M.O.Andreae, T.Roeckmann, P.Bergamaschi, L.Bruhwiler, S.Houweling, C. Prigent	17:00 <i>Implications of alternative metrics for global and regional stabilisation costs and greenhouse gas emissions from agriculture and land-use change</i> A. Reisinger, P. Havlik, K. Riahi, O. van Vliet, M. Obersteiner, M. Herrero		
17:20 <i>Estimating current and future nitrous oxide emissions from African agriculture: challenges and opportunities</i> Jonathan E. Hickman, Martina Havlikova, Carolien Kroese, Cheryl A. Palm	17:20 <i>First Measurements and Global Emission Estimates of Six Perfluorocarbons</i> M.J. Newland, D.E. Oram, J.C. Laube, C.E. Reeves, P.J. Fraser, C.A.M. Brenninkmeijer, T. Röckmann	17:20 <i>NMHC sources at altitude GAW background sites in Southern Germany</i> Leuchner, M., Plass-Dümler, C., Ries, L., Gubo, S., Junek, R.	17:20 <i>Radiative Forcing Estimations Due to Antarctic Ozone Changes</i> Victor Frolikis and Igor Karol		
17:40 <i>Estimation of N₂O fluxes at the regional scale: data, models, challenges</i> A Leip, M Bustos, M Corazza, P Bergamaschi, R Koebke, R Dechow, Suv Monni, W de Vries	17:40 <i>The European Semiconductor Industry's agreement to reduce 'Perfluorocompound' emissions: actions leading to results</i> Shane Harte, Harry Thewissen, Francesca Illuzzi		17:50 <i>Heating of a smoke-filled boundary layer by absorption of solar radiation</i> R. Boers, J. de Laat, P. Veenkind		
19:30 Conference Dinner with music by Valenky					

NCGG6 FINAL PROGRAM

FRIDAY 4 NOVEMBER						
Plenary Session - all plenary sessions are in room "University of Amsterdam 2-4" Chair: <u>Caroliën Kroeze</u> (Wageningen University / Open University of The Netherlands)						
8:30 Harry Clark (New Zealand Agricultural Greenhouse Gas Research Centre) – The Global Research Alliance: opportunities and challenges for scientific research to contribute to food carbon constrained world						
9:10 Victoria Hatton (New Zealand Agricultural Greenhouse Gas Research Centre) – The initial stocktake of GHG inventory and mitigation research activities in Alliance member countries: insights, lessons and opportunities						
9:40 Martin Scholten (Wageningen University, The Netherlands) – The Livestock Research Group of the Global Research Alliance: enhancing research collaboration and integration across diverse food production systems						
10:10 Break						
Parallel Sessions Room: "University of Amsterdam 1"		Parallel Sessions Room: "Stellenbosch"	Parallel Sessions Room: "Sorbonne"	Parallel Sessions Room: "Oxford"	EXCURSION: Let's go plume hunting (10:45-15:20)	
Session 1.7: Global perspectives and country overviews (GRA) <u>Chair: Paul Vrieskoop</u>		Session 2.7: Atmospheric observations <u>Chair: Peter van Velthoven</u>	Session 3.7: Research networks and collaboration (GRA) <u>Chair: Victoria Hatton</u>	Session 4.7: Regional diversity and opportunities (GRA) <u>Chair: Andrea Pickering</u>		
11:00 <i>Global emission patterns of the livestock sector and the different options for mitigation</i> Theun Vellinga, Pierre Gerber		11:00 <i>One year of global CH₄ Observations from GOSAT: Validation and model comparison</i> R.J. Parker, H. Boesch, A.J. Cogan, P.I. Palmer, A. Fraser, L. Feng, T. Warneke, J. Messerschmidt, N. Deutscher and the TCCON Team	11:00 <i>A Rumen Microbial Genomics Network approach for the development of a worldwide methane mitigation and rumen adaptation technologies</i> Adrian L. Cookson, William J. Kelly, Sinead C. Leahy, Graeme T. Attwood, Victoria Hatton, Harry Clark	11:00 <i>Understanding the relationships between GHG emissions from the agricultural sector and research efforts, preliminary analysis based on the Global Research Alliance stock-take data</i> Marta Alfaro, Verónica Ciganda		
11:20 <i>Summary of researches on green house gases in Vietnam</i> La Van Kinh and Pham Huynh Ninh		11:20 <i>Estimation of nitrous oxide from satellite infrared radiometer</i> Fumie Kataoka and Yasushi Mitomi	11:20 <i>Working towards a common protocol for measuring N₂O fluxes using chamber methods</i> C.A.M. de Klein, D.R. Chadwick, M. Alfaro, T.J. Clough, P. Grace, M. Harvey, F.M. Kelliher, S.O. Petersen, P. Rochette, R.T. Venterea	11:20 <i>Capability building opportunities within the Livestock Research Group of the Global Research Alliance</i> Sergio Gomez-Rosales		
11:40 <i>Use a chamber method to verify the effectiveness of a complete rumen modifier reducing the enteric methane on ruminants</i> A. Thalib, Y. Widiawati, W. Puastuti and Firsoni		11:40 <i>The influence of methane emission variability on tropospheric NO_x recycling</i> J. E. Williams, M. van Weele and P. F. J. van Velthoven	11:40 <i>Climate Change and Beef Cattle Production in South American Countries: Quantification and Mitigation of Methane and Nitrous Oxide Emissions from Grazing Beef Cattle</i> Laura Finster, Marta Alfaro, Edgar Cárdenas, Pedro Nuñez, Harry Clark, Verónica Ciganda	11:40 <i>Mitigation strategies to reduce N₂O emissions following nitrogen inputs to a range of English soils and crops</i> Misselbrook, T.M., Chadwick D.R., Chambers B.J., Williams J. Thorman R and Rollett, A.		
12:00 <i>Reducing Emissions from Livestock Research Program</i> Thomas M.Davison, Julian Hill and Joshua B. Francis		12:00 <i>Photochemistry of Surface Ozone in an Urban Environment near the city of Kolkata, India</i> Debreka Ghosh and Ujjaini Sarkar	12:00 <i>Enteric CH₄ mitigation using animal selection, genetics and genomics</i> R.F. Veerkamp, E. Wall, Y. De Haas and G.H. Shackell	12:00 <i>Ruminant enteric methanogenesis on forage-based diets</i> O'Kiely, P., McGeough, E.J., Navarro-Villa, A., Purcell, P.J., O'Brien, M., Crosson, P., Moloney, A.P., Boland, T.M., Kenny, D.A., Foley, P.A., Hart, K.J., McEvoy, M., O'Donovan, M., Grogan, D. and Lopez, S.		
12:20 <i>Air issues associated with animal agriculture</i> Hegg Richard			12:20 <i>Greenhouse gas mitigation in animal production: towards an interdisciplinary research agenda</i> I.J.M. de Boer, C. Cederberg, S. Eady, S. Gollnow, T. Kristensen, M. Macleod, M. Meul, T. Nemecek, L.T. Phong, G. Thoma, H.M.G. van der Werf, A.G. Williams and M.A. Zondervan-Thomassen	12:20 <i>Swiss diet types for cattle: How accurately are they reflected by the IPCC default values?</i> Johanna O. Zeitz, Carla R. Soliva and Michael Kreuzer		
12:40 Lunch		12:40 Lunch	12:40 Lunch	12:40 Lunch		
Session 1.8: Energy/Waste <u>Chair: Tinus Pulles</u>		Session 2.8: F-Gases <u>Chair: Sally Rand</u>	Session 3.8: Inverse Modeling (Regional) <u>Chair: Felix Vogel</u>			
13:30 <i>Methane emissions from gas engines driving Combined Heat and Power installations</i> Michel de Zwart, Gerco van Dijk and Jacob Klimstra		13:30 <i>Fast Track Emission Reduction Opportunities from High GWP GHGs</i> Sally Rand, Kirsten Cappel, Deborah Ottlinger	13:30 <i>Regional non-CO₂ greenhouse gas fluxes inferred from atmospheric measurements in Southern Ontario, Canada</i> F.R. Vogel, S. Hammer, E. Chan, M. Ishizawa, D. Chan, I. Levin and D.E.J. Worthy			
14:00 <i>Potential of methane capture during palm oil milling for renewable energy</i> Foong-Kheong Yew, Foo-Yuen Ng, Kalyana Sundram and Yusof Basiron		14:00 <i>Replacement of the HCFC refrigerant R22 by another refrigerant</i> Reinoud van der Auwerda	14:00 <i>Understanding recent methane growth rate variability using a global Lagrangian transport model – first results</i> Christina Schnadt Poberaj, Stephan Henne, and Dominik Brunner			
14:20 <i>Field emissions of N₂O during biomass production may affect the sustainability of agro-biofuels</i> Mette S. Carter, Henrik Hauggaard-Nielsen, Stefan Heiske, Sune T. Thomsen, Morten Jensen, Jens Ejbye Schmidt, Anders Johansen and Per Ambus		14:20 <i>Monitoring Californian anthropogenic halocarbon emissions by inverse methods</i> C. Yver, D. D. Lucas, P. Cameron-Smith, H. Graven, R. Keeling, and R. Weiss	14:20 <i>Estimation of nitrous oxide emission in France using atmospheric nitrous oxide and radon-222 measurements</i> Morgan Lopez, Martina Schmidt, Victor Kazan, Francois Truong, Camille Yver and Michel Ramonet			
14:40 <i>Does black carbon abatement hamper CO₂ abatement?</i> Terje Berntsen, Katsumasa Tanaka, Jan S. Fuglestvedt		14:40 <i>Properties of mid-latitude cross-tropopause gradients of N₂O and SF₆ derived from the long term systematic observations by means of the CARIBIC passenger aircraft</i> Tanja Schuck, Carl A.M. Brenninkmeijer, Kristie Boering, and Andreas Zahn	14:40 <i>Regional methane sources observed from a motor glider and simulated with a Lagrangian particle dispersion model at kilometre scale resolution</i> Dominik Brunner, Rebecca Hiller, Bruno Neininger, Thomas Künzle, Werner Eugster and Nina Buchmann			
15:00 <i>The effects of blue energy on future emissions of greenhouse gases and other atmospheric pollutants in China</i> Gao Xiu Xiu, Carolien Kroeze		15:00 <i>Replacement of ozone-depleting methyl bromide (CH₃Br) with the radiatively active sulfuryl fluoride (SO₂F₂) for pest control</i> Stefan Reimann, Dominik Brunner, Martin K. Vollmer, Stephan Henne				
15:20 Break		15:20 Break	15:20 Break			
15:50 Plenary Closing Session						
16:50 CLOSURE						