

9:00	PLENARY SESSION – room "University of Amsterdam 2-4" Chair: Carolien Kroeze, Assistant: Maryna Strokol Prof dr Rudy Rabbinge (Wageningen University and GRA Chair): Growing more food with decreasing greenhouse gas emission Dr Lena Höglund-Isaksson (IIASA): Global anthropogenic methane emissions: past and future trends					
10:30	Break					
	Parallel Sessions Room 1 "University of Amsterdam 1" Session 1A: GRA Agriculture Chair: Rudy Rabbinge Assistant: Paula Brouwer	Parallel Sessions Room 2 "Stellenbosch" Session 2A: F Gases Chair: Stefan Reimann Assistant: Faith Mutavi	Parallel Sessions Room 3 "Sorbonne"	Parallel Sessions Room 4 "Oxford" Session 4A: Inverse Modelling Chair: Tinus Pulles Assistant: Jie Wen	Parallel Sessions Room 5 "Erasmus 2" Session 5A: Policy/Scenario Chair: Shaun Ragnauth Assistant: Matthijs Harmsen	Parallel Sessions Room 6 "Erasmus 1" Session 6A: Land-use change effects on soil emissions in the (sub)tropics Chair: Hergoualc'h Kristell / Rufino Mariana Assistant: Lena Schulte-Uebbing
11:00	Scientific support to a climate smart livestock production: the rationale behind the Livestock Research Group of the Global Research Alliance on agricultural greenhouse gases Martin Scholten, Harry Clark, Andy Reisinger, Jac Meijs, Victoria Hatton, Henk van der Mheen	The new European F-Gas Regulation as an instrument for a further step in reduction of fluorinated GHG emissions: the impact for electrical switchgear Jean-Marc Biasse, Guillermo Aman, Thor Endre, Bernhard Tilwitz-von Keiser and Joerg Hilde		11:00 Top-down estimates of European CH₄ and N₂O emissions using different inverse models and improved observations Peter Bergamaschi, U. Karstens, M. Saunio, A.J. Manning, E. Kaffi, A. Vermeulen, G. Janssens-Maenhout, S. Hammer, I. Levin, M. Schmidt, M. Ramonet, M. Lopez, J. Lavric, T. Aalto, H. Chen, L. Haszpra, O. Hermansen, G. Manca, J. Moncrieff, F. Meinhardt, J. Necki, M. Galkowski, S. O'Doherty, N. Paramonova, M. Steinbacher and E. Dlugokencky	Understanding the contribution of non-CO₂ gases in deep mitigation scenarios David E.H.J. Gernaat, Detlef P. van Vuuren, Paul Lucas, Gunnar Luderer, Sander A.C. Otto, Katherine Calvin, Shilpa Raod and Jessica Streffere	Nitrous oxide emissions along a gradient of tropical forest disturbance on mineral soils in Sumatra F.K. Aini, K. Hergoualc'h, L.V. Verchot and J. Smith
11:20	Mitigation Options of Methane Emissions from Paddy Rice Fields by Water Management Kazuyuki Yagi and Kazunori Minamikawa	U.S. Emissions and Supplies of SF₆ Reported under the Greenhouse Gas Reporting Program Deborah Ottinger, Mollie Averyt and Deborah Harris		11:20 Isotopic constraints on the recent methane budget: an atmospheric view Marielle Saunio, I. Inizov, P. Bousquet, I. Pison, R. Locatelli, F. Chevallier, J. White, J. B. Miller, J. France, E. Nisbet, R. Fisher, S. Nichol and G. Brailsford	Projecting future nitrous oxide emissions from agriculture: Importance of ecological feedbacks and the environmental benefits of improved nitrogen use efficiency David R. Kanter, Xin Zhang, Elena Shevliakova, Sergey Malyshev and Denise L. Mauzerall	CH₄ and N₂O emissions associated with land use change of Tropical peat ecosystem in Tanjung Puting, Central Kalimantan N. Novita, K. Hergoualc'h and J.B. Kauffman
11:40	An international inter-comparison and benchmarking of crop and pasture models simulating GHG emissions and removals at field scale Fiona Ehrhardt, Jean-François Soussana, Gianni Bellocchi, Arti Bhatia, Lorenzo Brill, Rich Conant, Paola Deligios, Roberta Farina, Nuala Fitton, Peter Grace, Katja Klumpp, Joël Leonard, Mark Liebig, Mark Lieffering, Raphaël Martin, Raia Sylvia Massad, Andrew Moore, Laura Mula, Elizabeth Pattey, Thomas A. M. Pugh, Sylvie Recous, Ward Smith, Val Snow, Kairsty Topp, Huang Yao	Loophole in the Montreal-Kyoto regimes and increase in by-product HFC-23 emissions from HCFC-22 feedstock uses Tatsuya Hanaoka		11:40 Estimation of methane emissions from Switzerland by atmospheric observations and inverse modeling Stephan Henne, Brian Oney, Rüdiger Schanda, Ines Bamberger, Markus Leuenberger, Werner Eugster and Dominik Brunner	Future scenarios for N₂O emissions from biodiesel production in Europe Jikke van Wijnen, Wilfried Ivens, Ansjé Lohr and Carolien Kroeze	The effect of nitrogen fertilization on soil N₂O emissions from oil palm cultivation on deep peat S. Oktarita, K. Hergoualc'h, L.V. Verchot, X. Banneau and S. Anwar
12:00	Digestive value and methane emissions from grass herbage and grass silage under varying fertilization and harvesting management Bannink, Klop, Warner, Hater, Podesta, Ellis, Dijkstra	Project of "District-cooling in Colombia" as an air conditioning environmental alternative in end user sector Margarita Gutierrez		12:00 Validation of EDGAR CH₄ sources based on atmospheric observations of isotopic compositions of CH₄ and other tracers at Lutjewad Huilin Chen, Nelly Uitslag, Thomas Roekmann	The Mitigation Efforts of Non-CO₂ Greenhouse Gases in Korea Dr. Seung-Hyun Moon, C. Y. Park, and Y. J. Kim	Farm-level management and landscape position affects greenhouse gas emission potentials in western Kenya D.E. Pelster, K. Butterbach-Bahl, M. Rufino and G. Wanyama
12:20	The Global Rumen Census and Hungate1000: collaborative research projects targeting rumen microbes William J. Kelly, Gemma Henderson, Faith Cox, Global Rumen Census and Hungate1000 Collaborators, Graeme T. Attwood, Peter H. Janssen, Adrian L. Cookson, Suzanne C. Lambie, Kenneth Teh, Nicole Shapiro, Tanja Woyke, Sinead C. Leahy			12:20	Reducing nitrogen pollution while decreasing farmers' costs and increasing fertilizer industry profits David R. Kanter, Xin Zhang and Denise L. Mauzerall	Improved palm oil production sustainability by methane capture and utilization Kor B. Zwart, Yuca Waarts and Luc Bonten
12:40	Lunch					
	Session 1B: Voluntary Agreement in Agriculture in the Netherlands: Approach and first results Chair: Mattieu Dumont Assistant: Paula Brouwer	Session 2B: F Gases Chair: Guus Velders Assistant: Fan Dan	Session 3B: N₂O Agriculture Chair: André van Amstel Assistant: Lena Schulte-Uebbing	12:40 Lunch	Session 4B: Inverse Modelling Chair: Peter Bergamaschi Assistant: Matthijs Harmsen	Session 5B: Mitigation options Chair: Thomas Winkler Assistant: David Gernaat
14:00	Cost effectiveness of options to reduce greenhouse gas emissions in the Dutch dairy sector Agnes van den Pol-Dasselaar, Hans Blank, Mark Dolman, Aart Evers, Michel de Haan, Joan Reijs, Léon Sebek, Theun Vellinga and Harm Wemmenhove	European halocarbon measurements performed within InGOS: from innovation to routine observations Stefan Reimann, Simon O'Doherty, Johannes Laube, Andreas Engel, Michela Maione, Norbert Schmidbauer and Martin K. Vollmer	Controls on nitrous oxide production and consumption in New Zealand pasture soil Andrew McMillan, Rebecca Phillips, Peter Berben, Thilak Palmada, Neha Jha and Surinder Sagggar	14:00 Methane flux quantification in Eurasia by atmospheric inversion Antoine Berchet, I. Pison, F. Chevallier, J.-D. Paris, P. Bousquet, J.-L. Bonne, M. Saunio, M. Sasakawa, T. Machida, J. Lavric, J. Winderlich, J. Hatakka, M. Yu Arshinov, R. Spahni and Lee H	Multi-basket approaches to climate and environmental policies Katsumasa Tanaka	Tillage, residue and nitrogen management effect on emission of CH₄ and N₂O from rice-wheat cropping systems of Indian Northwest Indo-gangetic plains T.B. Sapkota, M.L. Jat, V. Shankar, L.K. Singh, M.K. Jat, D. Bijarniya, M. Rai, R.K. Jat and C. Sterling
14:20	Reduction potential for on farm methane and nitrous oxide emission on Dutch dairy farms Léon Sebek, Roselinde Goselink, Aart Evers and Michel de Haan	Global HCFC-22 (CHF₂Cl) measurements with MIPAS: retrieval, validation, climatologies and trends M. Chirkov, G. Stiller, A. Laeng, T. von Clarmann, S. Kellmann, N. Glatthor, A. Wiegeler, J. Orphal, A. Engel, K.A. Walker, C. Boone, G. Toon and J. Elkins	The importance of wintertime soil N₂O and NO emission processes at the global scale Brian Seok and Eri Saikawa	14:20 Inverse modeling of global and regional CH₄ emissions during 1990-2012 Arindam Ghosh, Prabir K. Patra, Tazu Saeki, Kentaro Ishijima, Akihiko Ito, Shuji Aoki and Takakiyo Nakazawa	Crop Yields, Food Security, and GHG Emissions: An Analysis of Global Mitigation Options for Rice Cultivation Robert Beach, Jared Creason, Sara Bushey Ohrel, Shaun Ragnauth, Changsheng Li and William Salas	A review of the greenhouse gas costs associated with conversion of forest to rubber and oil palm plantations U. Skiba and K. Hergoualc'h
14:40	AD of animal manure from the perspective of Danish climate policies Teodonta Al Seadi	Atmosphere-based "top-down" emission estimates of hydrofluorocarbons (HFCs) and hydrochlorofluorocarbons (HCFCs) for the United States L. Hu, S. A. Montzka, J. B. Miller, A. E. Andrews, B. R. Miller, S. Lehman, K. Thoning, C. Sweeney, H. Chen, K. Masarie, L. Bruhwiler, M. L. Fischer, S. C. Braud, M. S. Torn, E. Saikawa, J. W. Elkins, and P. Tans	Cover Crops: effect on direct and indirect N₂O emissions Karl G. Richards, Gary Lanigan, Alina Premrov, Catherine Coxon, Bruce Osborne, Richard Hackett, M.M.R. Jahangir	14:40 Inverse modelling of Canada's anthropogenic methane emissions: statistical methods and pseudo-data experiments Elton Chan, Douglas Chan, Andy Delcloo, Jean-Philippe Gauthier, Baisuo Jin, Yuehua Wu, Jerome Brioude, Owen R. Cooper and Douglas E. J. Worthy	Global Mitigation of Non-CO₂ Greenhouse Gases: Marginal abatement costs curves and abatement potential through 2030 Shaun A. Ragnauth, Jared Creason, Jameel Alsalam, Sara Ohrel, Jeffrey E. Petrusa and Robert H. Beach,	Soil N₂O and NO emissions from land use and land-use change in the tropics and subtropics: A meta-analysis J. van Lent, K. Hergoualc'h and L.V. Verchot
15:00	Cost-effective mitigation? The usefulness of voluntary agreements and public private partnerships for reducing greenhouse gases from agriculture in the Netherlands Mathieu Dumont, Albert Moerkerken and Arnoud Smit	Retrievals, Validation, Trends and Climatologies of MIPAS IMK/IAA CFC-11 (CCl₃F) and CFC-12 (CCl₂F₂) E. Eckert, S. Kellmann, A. Laeng, G. Stiller, T. von Clarmann, N. Glatthor, M. Höpfner, M. Kiefer, J. Orphal, B. Funke, U. Grabowski, A. Linden, G. Wetzel, P. F. Bernath, G. S. Dutton, J. W. Elkins, A. Engel, J. C. Gille, F. Kolonjari, G. C. Toon and K. A. Walker	Impact of grassland renovation practices on N₂O emissions and nitrate dynamics Caroline Buchen, H. Flessaa, M. Helfrich, M. Kayserb, M. Benck, and R. Wella	15:00 NCGG-policy in the Netherlands and an inventory of emission of relatively unknown and small non-CO₂ greenhouse gas sources Joep van Steen and Jan van Bergen	Reduction of the air traffic's contribution to climate change: A REACT₄C case study Volker Grewe, Thierry Champagny, Sigrun Matthes, Christine Frömming, Sabine Brinkop, Amund Søvdø, Emma A. Irvine, Lucia Halscheidt	N₂O and CH₄ fluxes in rehabilitated lands in W. Kenya L.V. Verchot and M. Thiongo
15:20	Lactic acid bacteria as a methane mitigation option Ida Hindrichsen, Milora, Dijkstra, Ellis, Kinley, Cone, Pelikaan and Bannink	Observations of halogenated trace gases in Taiwan Lauren J. Gooch, Johannes C. Laube, William T. Sturges, David E. Oram, Jia-Lin Wang and Cheng-Feng Ou-Yang		15:20		Non-CO₂ greenhouse gas emissions from palm oil production in Thailand Kanokwan Saswattacha, Melissa Cuevas Romero, Lars Hein, Carolien Kroeze, Jawjit Warit
15:40	Break					
	Session 1C: N-related Greenhouse Gases Chair: Steve Del Grosso Assistant: Faith Mutavi	Session 2C: F Gases Chair: Deborah Ottinger Assistant: Fan Dan	Session 3C: N₂O Agriculture Chair: Andrew MacMillan Assistant: Li Ang	Session 4C: Aerosol fractions, climate forcing and air pollution (EFCA) Chair: Thomas Reichert Assistant: Jie Wen	Session 5C: Policy/Scenario Chair: Herman Waltheus Assistant: Paula Brouwer	Session 6C: Monitoring Chair: Arjan Hensen Assistant: Diana Aragon
16:10	Short and long-term impacts of nitrogen deposition on carbon sequestration by forest ecosystems Wim de Vries, Enzai Du and Klaus Butterbach-Bahl	Global emissions of fluorinated greenhouse gases until 2050: technical mitigation potentials and costs Pallav Purohit and Lena Höglund-Isaksson	Effect of exogenous application of plant growth hormone on nitrous oxide emission from field grown wheat (Triticum aestivum) Leena Borah and K.K. Baruah	16:10 Controlling the risks of fine particulate matter: size, numbers, chemical properties and forcing; how to proceed? Joop van Ham, Thomas Reichert, and John Murlis	Marginal Abatement Cost Curves for Agricultural Non-CO₂ GHG Emissions through 2030 Robert Beach, Jared Creason, Sara Bushey Ohrel, Shaun A. Ragnauth, Stephen Ogle, Changsheng Li and William Salas	Trends of methane emissions in southern Germany derived from 22 years of atmospheric methane and radon measurements at Schauinsland station Martina Schmidt, F. Meinhardt, S. Hammer, C. Schlosser, S. Schmid and I. Levin
16:30	Interactions between methane and the nitrogen cycle in light of climate change Paul Bodelier and Anne K Steenbergh	SF₆ alternative development for high voltage switchgears Yannick Kieffel, François Biquez, Philippe Ponchon, John Owens, Mike Costello, Mike Bulinski, Kurt Werner and Rudi van San	Fertiliser Nitrogen Formulation Affects Nitrous Oxide Emissions from Grassland Mary Harty, P. Forrestal, D. Krol, G. Lanigan, G. McNeill, K. McGeough, R. Laughlin, C. Elliot, C.J. Watson, and K.G. Richards	16:30 Impact of natural and anthropogenic aerosols on mixed-phase and ice clouds Corinna Hoese, L. Hande, M. Hummel, O. Möhler, M. Paukert, I. Steinke and R. Ullrich	Greenhouse gas emission scenarios of livestock in Austria Thomas Winkler and Wilfried Winiwarter	Long-term variations of atmospheric CH₄ concentration over Siberia derived from aircraft and tower measurements Motoki Sasakawa, T. Machida, A. Ito, N. Tsuda, M. Arshinov, D. Davydov, A. Fofonov, O. Krasnov, N. Fedoseev, M. Nesterova, A. Galanin, P.K. Patra and K. Ishijima
16:50	Nitrous oxide emissions from pastoral soils: interactions between the N cycle and climate change Cecile de Klein, Mark A Shepherd and Tony J van der Weerden	The European Semiconductor Industry Association's management of 'Perfluorocompound' emissions Shane Harte, Francesca Illuzzi and Harry Thewissen	Indirect emissions of N₂O, CO₂, and CH₄ via groundwater in contrasting agricultural systems Mohammad Mofi R. Jahangir, P. Johnston and K.G. Richards	16:50 Hygroscopicity of Atmospheric Particles: Implications for their Effects on Human Health and Climate George Biskos	The Situation of Non CO₂ Greenhouses Gases Air Pollution in Uganda Moses Kusemerewa	5 years of CH₄, N₂O, and SF₆ observations over the Indian subcontinent: a study based on surface flask measurements Xin Lin, M. Ramonet, P. Ciais, M. Schmidt, M. Delmotte, N.K. Indira, P.S. Swathi, V.K. Gaur, B.C. Bhatt and D. Angchuk
17:10	Ozone - the persistent menace; interactions with the N-cycle and climate change David Simpson, Almut Armeth, Gina Mills, Sverre Solberg and Johan Uddling	Reducing SF₆ Emissions from Electrical Switchgear Edgar Dullni, Thor Endre, Yannick Kieffel and Renzo Coccioni	Reduction of Nitrous oxide (N₂O) emission from wheat agriculture under varying tillage practices and different level of nitrogen fertilizer Nirmali Bordoloi and K.K. Baruah	17:10 Sources and production of primary and secondary organic aerosols: Insights from the combination of a chemistry - climate model and measurements Alexandra Tsimpidi, Vlassis Karydis and Jos Lelieveld		The MACC-II high resolution global atmospheric methane forecast Anna Agustí-Panareda, Bastien Massart, Peter Bergamaschi and Frederic Chevallier
17:30	Greenhouse gas emissions from treated manure Gerard L. Velthof		Urine Patch Simulation Approach Affects Quantification of Nitrous Oxide Emissions P.J. Forrestal, D.J. Krol, G.J. Lanigan, and K.G. Richards	17:30 The influence of traffic on the black carbon concentration: investigations in Leipzig, Germany, and La Paz, Bolivia Alfred Wiedensohler		
17:50	End conference day					
18:00	Dinner in the Jordaan [Amsterdam West]					
				17:50 Discussion		
				18:10 End conference day (only room 4)		