

11:00	<b>AGRICULTURE &amp; FORESTRY GHG</b> Chair: Frank O'Mara	Opening: Progress presentation of the running projects & Valorisation Workshop: (1) Welcome & presentation on FACCE ERA-GAS -- O'Mara, Frank (Teagasc); (2) Intro to the Project Roundtables -- Kuzniar-van der Zee, Brenda (Wageningen Uni / FACCE ERA-GAS)	<b>SYNTHETIC GREENHOUSE GASES</b> Chair: Martin Vollmer	Climate impact of the Montreal Protocol -- Velders, Guus J.M. (RIVM, Utrecht Uni)	<b>ARCTIC</b> Chair: Stephen Platt	The influence of the atmospheric profile on Arctic column-averaged dry-air mole fractions of methane -- Backman, Leif (FMI)	<b>MITIGATION</b> Chairs: Lena Höglund-Isaksson & Shaun Ragnauth	Non-CO <sub>2</sub> Greenhouse Gas Mitigation Through 2050 -- Ragnauth, Shaun (US EPA)	<b>METHANE EMISSIONS</b> Chair: Hugo Denier van der Gon	MEMO2 - Methane goes MOBILE -- Measurements and Modelling -- Walter, Sylvia (Utrecht Uni)	<b>REGIONAL VERIFICATION</b> Chair: Peter Bergamaschi	Top-down estimates of European CH <sub>4</sub> emissions during 2005-2016 using two different inverse models -- Bergamaschi, Peter (EC-JRC)
		Project Round Tables - session 1 - 3DForMod - CEDERS - GHG-Manager - PEATWISE - FORCLIMIT		The estimated baseline and schedule for phase-down HFCs in China -- Li, Yixi (Beijing Uni)		Source identification of high CH <sub>4</sub> air masses observed on board R/V MIRAI in the northern high latitudes based on δ <sup>13</sup> C and δD measurements -- Fujita, Ryo (Imperial College London)		Global agricultural non-CO <sub>2</sub> emission reduction potential in the context of the 1.5 °C target -- Frank, Stefan (IIASA)		Quantifying localized methane source emissions from mobile sensors using an obstacle-resolving Lagrangian dispersion model -- Morales, Randolph Paulo (EMPA)		Updating and Assessing Methane Emission Estimates with Component-Level Measurements and Observations -- Weitz, Melissa M. (US EPA)
11:20		After 20 minutes participants can choose to sit at a different project roundtable				Observations of methane over the Arctic Ocean -- Platt, Stephen Matthew (NILU)		Introducing Regional Heterogeneity to the United States Non-CO <sub>2</sub> Marginal Abatement Cost Curves -- Petrusa, Jeff (RTI Intl)		Mobile measurement of methane in Ile de France region -- source mapping, isotopic composition & emission estimation -- Defratyka, Sara (LSCE-IPSL)		Uncertainty calculations for emissions of CH <sub>4</sub> , N <sub>2</sub> O, NH <sub>3</sub> , NO <sub>x</sub> , and PM <sub>10</sub> from agriculture in the Netherlands -- Vonk, Jan (RIVM)
11:40		Project Round Tables - session 2 - METHLAB - MAGGE-pH - INVENT - RumenPredict - ResidueGas		Energy and air pollution co-benefits of a global phase-down of hydrofluorocarbons -- Purohit, Pallav (IIASA)		Direct methane and its stable isotope δ <sup>13</sup> CCH <sub>4</sub> measurements over the Russian Arctic seas during ship campaigns in 2015-2018 and their comparison with remote-sensing satellite data -- Skorokhod, Andrey (Inst of Atmospheric Physics RAS)		A Multi-Model Assessment of Greenhouse Gas Mitigation Potential in the United States Agriculture and Forestry Sectors -- Baker, Justin S., presented by Jones, Jason (RTI Intl)		Using methane and ethane measurements to distinguish different sources -- Dinther, Danielle van (TNO)		Top-down Validation of non-CO <sub>2</sub> Greenhouse Gas Emissions in Support of Swiss National Inventory Reporting -- Henne, Stephan (EMPA)
12:00		After 20 minutes participants can choose to sit at a different project roundtable		The implications of residential air conditioning refrigerant choice on future hydrofluorocarbon consumption in the United States -- Godwin, Dave (US EPA)						Monitoring methane emission and <sup>13</sup> CH <sub>4</sub> source signatures of anthropogenic sources in Southwest Germany -- Korben, Piotr (Heidelberg Uni)		
12:20												
12:40		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch

14:00	<b>AGRICULTURE &amp; FORESTRY GHG</b> Chair: Frank O'Mara	Providing independent scientific advice and support to EU policy -- Sikkema, Richard (Wageningen Uni & Research, prev. JRC)	<b>SYNTHETIC GHG</b> Chair: Martin Vollmer	New Guidance for Estimating Fluorinated GHG Emissions from Circuit Board Waterproofing -- Czerniak, Mike (Edwards Ltd)	<b>ARCTIC</b> Chair: Stephen Platt	Methane emissions' feedbacks on climate in northern peatlands by modelling of peat soil carbon thawing and atmosphere interactions -- Salmon, Elodie (LSCE-IPSL, CNRS, CNES)	<b>MITIGATION</b> Chairs: Lena Höglund-Isaksson & Shaun Ragnauth	Non-CO <sub>2</sub> GHG Mitigation Potential: Comparing IIASA GAINS and EPA MAC Model Assessments -- Ragnauth, Shaun (US EPA)	<b>METHANE EMISSIONS</b> Chair: Hugo Denier van der Gon	CH <sub>4</sub> lidar measurements during the CoMet 2018 airborne field campaign -- Fix, Andreas (DLR)	<b>REGIONAL VERIFICATION</b> Chair: Peter Bergamaschi	Long term CH <sub>4</sub> and N <sub>2</sub> O data at the Dutch Cabauw tower -- Frumau, Arnoud (TNO)
14:20		Impact of Teagasc research results on policies on agricultural gas emissions -- Krol, Dominika (Teagasc)		Refrigerant Fluorocarbon Emissions Projections and Mitigation Costs in Asia by 2050 -- Hanaoka, Tatsuya (NIES)		Methane emissions during soil freezing at northern latitudes -- Aalto, Tuula (FMI)		Updated Global and Regional Marginal Abatement Cost Curves for Agricultural Greenhouse Gas Emissions -- Beach, Robert H. (RTI Intl)		How uncertain are the estimates of methane release from Polish coal and gas excavations? First results of JSUN-CH <sub>4</sub> project -- Necki, Jarek (AGH Uni Kraków)		United Kingdom Deriving Emissions linked to Climate Change Network: greenhouse gas and ozone depleting substance measurements from a tall tower network -- Stanley, Kieran M. (Bristol Uni)
14:40		Group discussion session 1		Assessing air quality improvement and greenhouse gas abatement of energy efficient air conditioners in residential building sector of China -- Wang, Xu (Beihang Uni)		Temperature Dependency of Methanotrophs in Arctic Tundra Soils -- Richter, Lea (Uni Massachusetts Lowell)		The global scope for reducing non-CO <sub>2</sub> greenhouse gases -- Höglund-Isaksson, Lena (IIASA)		Direct measurements of CH <sub>4</sub> emissions from illegally managed waste landfills in Giugliano (Campania, Italy): a novel approach -- Famulari, Daniela (CNR-ISAFOF)		Atmospheric monitoring of methane emissions at the European scale -- Szenasi, Barbara (LSCE)
15:00		Group discussion session 2										
15:20		The importance of the agriculture and land use sector in climate change -- Ngarize, Sekai (IPCC - TFI)										
15:40												

**POSTERS**  
POSTER PRESENTATIONS CAN BE FOUND  
- in the lobby near the conference secretariat;  
- in the hallway next to the UvA rooms; and  
- in the lobby near the lunch buffet.

16:10	<b>AGRICULTURE &amp; FORESTRY GHG</b> Chair: Frank O'Mara	Introduction to Strategic Research Agenda of the Joint Programming Initiative on Agriculture, Food Security and Climate (FACCE-JPI) -- Eivind Olesen, Jørgen (Aarhus Uni) Introduction to interactive session -- Kelly, Raymond (Teagasc)	<b>SYNTHETIC GHG</b> Chair: Martin Vollmer	2019 IPCC GHG Guidelines Refinement: A Perspective for the Electronics Industry -- Czerniak, Mike (Edwards Ltd)	<b>RIVERS</b> Chair: Agnès Gossel	Land use, not stream order, controls N <sub>2</sub> O concentration and flux in the upper Mara River basin, Kenya -- Mwanake, Ricky (IHE Delft)	<b>MITIGATION</b> Chairs: Lena Höglund-Isaksson & Shaun Ragnauth	Policy measures for agricultural non-CO <sub>2</sub> GHG emissions in the Netherlands -- Schijnvel, Marian van (PBL)	<b>OIL &amp; GAS</b> Chair: Bill Hirst	Offshore gas & methane emission measurements at the North Sea -- Maazallahi, Hossein, presented by Velzeboer, Ilona (TNO)	<b>REGIONAL VERIFICATION</b> Chair: Peter Bergamaschi	Independent Validation of National Greenhouse Gas Inventories: the Case of Switzerland -- Schilt, Adrian (Swiss Federal Office for the Environment)
16:30		Interactive session				Riverine emissions of nitrous oxide in a cropland region in France -- Gossel, Agnès (INRA)		Long-term marginal abatement cost curves of non-CO <sub>2</sub> greenhouse gases -- Harmsen, Mathijs J.H.M. (PBL, Utrecht Uni)		CH <sub>4</sub> variability and emissions in the Middle East during AQABA -- Paris, Jean-Daniel (LSCE-CEA)		Towards an improved inventory of N <sub>2</sub> O emissions using land cover maps derived from high resolution optical remote sensing images -- Fieuzal, Rémy, presented by Tallec, Tiphaine (CESBIO, Toulouse Uni)
16:50		Interactive session						Comparative Analysis of Global Non-CO <sub>2</sub> Emission Projection Methodologies and Results -- Alsalam, Jameel (US EPA), presented by Blumenthal, Cara (ICF)		Methane Emissions from Natural Gas Production to Consumption: Contrasting Multi-Year Atmospheric Observations in Utah's Uintah Basin and Salt Lake City -- Lin, John C. (Utah Uni)		Bottom-up synthesis of methane budget of East Asia, 1990-2015 -- Ito, Akihiko (NIES, JAMSTEC)
17:10		Interactive session								Airborne in-situ observations during the CoMet campaign 2018: Quantification of CH <sub>4</sub> emissions from coal mining activities in Upper Silesia, Poland -- Roiger, Anke (DLR)		
17:30		Keynote: Public agricultural research in an era of transformation: The challenge of agri-food system innovation -- Dijkman, Jeroen (NZAGRC)										
17:50		Conclusions										
18:10												

11:00	<b>ANIMALS</b> CEDERS - Introduction -- Bannink, André (Wageningen Uni)	<b>SYNTHETIC GREENHOUSE GASES</b> US Consumption and Supplies of Sulphur Hexafluoride Reported under the Greenhouse Gas Reporting Program: An Update -- Ottinger, Deborah (US EPA)	<b>TROPICS</b> How does conversion from peat swamp forest to oil palm plantation affect emissions of nitrous oxide and methane from the soil? A case study in Jambi, Indonesia -- Hartill, Jodie (CIFOR / Aberdeen Uni), presented by Kristell Hergoualc'h (CIFOR)	<b>SHORT LIVED FORCERS</b> EMF-30 Study on Short-Lived Climate Forcers and Air Quality -- Harmsen, Mathijs J.H.M. (PBL, Utrecht Uni)	<b>OIL &amp; GAS</b> Mapping, Emission Quantification, and attribution of Methane Emissions across two European Cities; Utrecht, NL and Hamburg, DE -- Maazallahi, Hossein (TNO)	<b>GLOBAL VERIFICATION</b> Top-down estimates of N <sub>2</sub> O emissions over the past two decades -- Thompson, Rona L. (NILU)
11:20	Experimental and modelling work for greenhouse gas accounting, LCA and GHG inventory methodology -- Bannink, André (Wageningen Uni)	Per-Fluoro Compound (PFC) Emissions Reduction in Semiconductor Manufacturing -- Czerniak, Mike (Edwards Ltd)	Effects of palm swamp forest degradation in the Peruvian Amazon on soil CH <sub>4</sub> and N <sub>2</sub> O fluxes -- Lent, Jeffrey van (CIFOR / Wageningen Uni)	Taking some heat off the NDCs? The limited potential of additional short-lived climate forcers' mitigation -- Harmsen, Mathijs J.H.M. (PBL, Utrecht Uni)	Is Shale Gas a Major Driver of Recent Increase in Global Atmospheric Methane? -- Howarth, Robert W. (Cornell Uni)	Contribution of different methane sources to the global methane budget based on inversion modelling constrained by CH <sub>4</sub> and δ <sup>13</sup> C-CH <sub>4</sub> observations -- Kangasaho, Vilma (FMI)
11:40	Current approaches in on-farm accounting tools and national inventory models -- Klein, Cecile de (AgResearch)	Estimating regional emissions of the HFCs across NW Europe, Australia and East Asia from surface observations and comparison with national inventories -- Manning, Alistair (Met Office)	Contributions of methane and nitrous oxide to peat greenhouse gas emissions from forest and oil palm plantations in an Indonesian peatland -- Hergoualc'h, Kristell (CIFOR)	Mitigation Scenarios of Short-Lived Climate Pollutants and Air Pollutants in Asia by Considering Synergies and Tradeoffs of Decarbonization Measures toward 2 °C target -- Hanaoka, Tatsuya (NIES)	Emissions measurements downwind of offshore oil and gas platforms in the Gulf of Mexico -- Yacovitch, Tara I., presented by Herndon, Scott (Aerodyne)	Inverse modeling of anthropogenic methane emissions based on ground-based monitoring and GOSAT satellite retrievals -- Maksyutov, Shamil (NIES)
12:00	Establishing on-farm GHG emissions by an integrated modelling approach -- Krol, Dominika (Teagasc)	Update on Trends and Identities of Fluorinated GHGs Reported under the Greenhouse Gas Reporting Program -- Ottinger, Deborah (US EPA)	Biogeochemical controls of soil greenhouse gas fluxes in congolean forest landscapes: effects of land use change and agricultural intensification -- Verchot, Louis (CIAT)	How to represent short lived climate pollutants for net-zero targets with environmental integrity -- Cain, Michelle (Uni Oxford)	Methane emission verification for the Upper Silesia coal basin in Poland using earth observation data -- Denier van der Gon, Hugo A.C. (TNO)	Investigation of the global methane budget based on improved measurement datasets and prior emission information -- Lan, Xin (Uni Colorado Boulder / NOAA)
12:20	An example of a National Inventory Model: The Danish model for cattle -- Gyldenkerne, Steen (Aarhus Uni)	European emissions of halogenated fumigants relevant for climate -- Maione, Michela (Urbino Uni, CNR-ISAC)	The impact of diversifying understory vegetation in oil palm plantations on greenhouse gas emissions, ecosystem functioning and yield -- Drewer, Julia (Centre for Ecology & Hydrology)		Airborne mapping of methane sources and their mass emission rates within the Barnett Shale -- Hirst, Bill (Shell)	Contributions of different regions to global methane budgets during the period 1988-2017 -- Chandra, Naveen (JAMSTEC)
12:40	Lunch & Poster					

14:00	<b>ANIMALS</b> A new Tier 3 method to calculate methane emission inventory for ruminant models -- Eugène, Maguy (INRA, Uni Clermont Auvergne)	<b>SYNTHETIC GREENHOUSE GASES</b> The HALOSEARCH project: search for unknown halocarbons in the atmosphere -- Guillevic, Myriam (EMPA)	<b>NATURAL SYSTEMS</b> How do termites contribute to soil nitrous oxide and methane emissions along a forest transition to rubber and oil palm plantation in Sumatra, Indonesia? -- Aini, Fitri Khussyu (CIFOR / Aberdeen Uni)	<b>IPCC GUIDELINES</b> Opening and Introduction of IPCC TFI The 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories - Overview and cross-cutting issues -- Tanabe, Kiyoto	<b>INSTRUMENTS</b> Recent Progress in TILDAS Laser Monitors for non-CO <sub>2</sub> Greenhouse Gases -- Nelson, David (Aerodyne)	14:00
14:20	Planning tool for calculating the carbon footprint from dairy farming based on input data for feed intake, housing and manure system -- Mogensen, Lisbeth (Aarhus Uni)	Locating the source of increasing CFC-11 emissions using atmospheric observations -- Western, Luke (Bristol Uni)	Prediction of CH <sub>4</sub> emissions from potential natural wetlands on the Tibetan Plateau during the 21st century -- Li, Tingting (Chinese Academy of Sciences)	- Refinements in Volume 1 (General Guidance and Reporting) -- Pyrozhenko, Yurii - Refinements in Volume 2 (Energy) -- Shermanau, Pavel - Refinements in Volume 3 (Industrial Processes and Product Use) -- Shermanau, Pavel - Refinements in Volume 4 (Agriculture, Forestry and Other Land Use) -- Ngarize, Sekai - Refinements in Volume 5 (Waste) -- Jamsranjav, Baasansuren	Airborne ultra-light spectrometer for greenhouse gases emission quantification -- Dejob, Antoine (Uni Reims)	14:20
14:40	Initial analysis of international database on greenhouse gas emissions from manure management -- Weerden, Tony van der (AgResearch)	Long-term Measurements of Halocarbons at Taunus Observatory -- Schuck, Tanja (Frankfurt Uni)	Flooded fen grassland - a long term hot-spot for CH <sub>4</sub> emissions? -- Hoffmann, Mathias (Leibniz-ZALF)	Q&A & discussion	Development of a new portable system for sampling CH <sub>4</sub> for radiocarbon analysis -- Zazzeri, Giulia (Imperial College London)	14:40
15:00	Assessment of losses from animal excreta on wet soils -- Krol, Dominika (Teagasc)	Atmospheric hydrofluorolefines (HFOs) and hydrochlorofluorolefines (HCFO) at the Jungfraujoch (Switzerland) observatory -- Vollmer, Martin K. (EMPA)	Measurements of Methane Fluxes over the Flow Country of Scotland -- Coyle, Mhairi (The James Hutton Inst)		A comparison of commercially-available quantum cascade laser spectrometers to measure N <sub>2</sub> O isotopocules (δ <sup>15</sup> N <sub>2</sub> , δ <sup>15</sup> Nβ & δ <sup>18</sup> O) at ambient concentrations -- Harris, Stephen (UNSW Sydney)	15:00
15:20	Magnitude of difference in methane emissions between sheep bred for low or high methane yield is persistent across four seasons on pasture -- Jonker, Arjan (AgResearch)	HFC-23 from the production of HCFC-22 as seen at background sites in Europe -- Reimann, Stefan (EMPA)			A high-precision mid-IR methane laser spectrometer for UAVs -- Emmenegger, Lukas (EMPA)	15:20
15:40	Lunch & Poster					

16:10	<b>RICE</b> Nitrous oxide emissions, ammonia volatilization and N leaching losses in rice under Neem coated urea application -- Bhatia, Arti (ICAR)	<b>AGRICULTURE</b> Ensemble modeling of nitrous oxide emissions from intensively managed grassland -- Fuchs, Kathrin (ETH Zürich)	<b>FORESTS</b> Impacts of human nitrogen fixation on global scale greenhouse gas emissions -- Vries, Wim de (Wageningen Uni)	<b>IPCC GUIDELINES</b> National GHG inventories under the UNFCCC - Consideration on the past and the future -- Pulles, Tinus - Q&A & discussion	<b>CITY</b> Stable carbon isotope analysis of airborne particulate matter using a carbon aerosol analyzer and a cavity ringdown spectrometer -- Hofmann, Magdalena (Picarro)	16:10
16:30	Reduced gases (CH <sub>4</sub> , NH <sub>3</sub> , H <sub>2</sub> S) atmospheric concentration variability over rice paddies (Ebre River Delta ClimaDat station) -- Águeda, A. (Uni Politècnica de Catalunya), presented by Morgui, Josep-Anton (Autonomous Uni Barcelona)	Simulation and sensitivity analysis of nitrous oxide emissions from long-term grassland silage fields using the DNDC model -- Khalil, Ibrahim (Uni College Dublin)	N <sub>2</sub> O emission from global forest soils and principal determinants -- Huang, Yao (Chinese Academy of Sciences)	Other TFI activities - Emission Factor Database -- Jamsranjav, Baasansuren - IPCC Inventory Software -- Ngarize, Sekai - Work on SLCF inventory methodology -- Tanabe, Kiyoto	Time variations of the pollutants concentrations in the atmosphere over Moscow and estimation of their emissions -- Elansky, Nicolai F., presented by Rakinin, Vadim (Inst of Atmospheric Physics RAS)	16:30
16:50	Methane and Nitrous Oxide Emission from Rice Field under the Adaptation-Mitigation Technologies -- Towprayoon, Sirintornthep (CEE, KMUTT)	Modelling nitrous oxide emission peaks -- Topp, Kairsty (Scotland's Rural College)	Synthesis of results from experiments on the influence of forest management practices on soil GHG fluxes in Britain -- Yamulki, Sirwan (Forest Research)	Q&A & discussion	Anthropogenic methane plumes detection from ponctual sources in the Paris megacity area and characterisation of their δ <sup>13</sup> C signature -- Xueref-Remy, Irène (LSCE / Aix Marseille Uni)	16:50
17:10			Response of Soil Nitrous Oxide Fluxes to Experimental Warming and Water Addition in a Temperate Sitka Spruce Forest Ecosystem -- Zou, Junliang, presented by Osborne, Bruce (Uni College Dublin)		Characterizing methane emissions in Madrid City within the MEGEI-MAD project: the temporal and spatial ground-based mobile approach -- García, Omaria (AEMET), presented by Morgui, Josep-Anton (Autonomous Uni Barcelona)	17:10
17:30					Global high spatial resolution methane atmospheric inverse model NIES-TMFLEXPART-VAR -- Tsuruta, Aki (FMI)	17:30
17:50	Closing					

19:00 - 20:30	Optional: Canal cruise -- Optional: Canal cruise -- Optional: Canal cruise -- Optional: Canal cruise -- Optional: Canal cruise -- Optional: Canal cruise					
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11:00	<b>CROPS</b> Chair: Gerard Velthof	What are the potential trade-offs of soil carbon sequestration strategies on N <sub>2</sub> O emissions? -- Velthof, Gerard L. (Wageningen Environmental Research)	<b>UPDATED &amp; NEW IPCC GUIDANCE ON F-GASES</b> Chair: Deborah Ottinger	Updated Guidance for Estimating Fluorinated GHGs from Fluorochemical Production -- Schaffner, Karen S. (RTI Int), presented by Brian Mader (3M Company)	<b>AFRICA</b> Chairs: Klaus Butterbach-Bahl & Lutz Merbold	Mazingira Centre: State-of-the-Art Environmental and Educational Facility in East Africa -- Merbold, Lutz (ILRI)	<b>METHANE EMISSIONS FROM LIVESTOCK</b> Chair: Karin Groenestein	Introduction NL Climate Research Agriculture -- Groenestein, Karin (Wageningen Livestock Research)	<b>REACTIVE SPECIES</b> Chairs: Helen Worden & Benjamin Gaubert	Dynamics in methane, carbon monoxide and AOD trends for different regions of Eurasia -- Raktin, Vadim S. (Inst of Atmospheric Physics RAS)	<b>SATELLITE OBSERVATION</b> Chair: Iise Aben	Quantification of methane emissions from satellite measurements moving from global to local scales -- Houweling, Sander (VU Amsterdam)	11:00
11:20		Downscaling greenhouse gas emissions reductions and their interactions with nitrate leaching -- Mahmoud, Noha M. Hanafy (Aarhus Uni)		Updated Guidance for Estimating Perfluorocarbon Emissions from Aluminium Production and New Guidance for Estimating Perfluorocarbon Emissions from Rare Earths Production -- Nunez, Pernelle (International Aluminium Insitute)		An optimized observation system for climate forcing in Africa -- Wilson, Sally (Global Change Inst)		Farm monitoring emissions and demonstration -- Ogink, Nico (Wageningen Livestock Research)		Statistical analysis of factors driving surface ozone variability over continental South Africa -- Laban, Tracy Leah, presented by Zyl, Pieter van (North-West Uni)		The Monitoring Nitrous Oxide Sources (MIN:OS) satellite project -- Ricaud, Philippe (CNRM; Météo-France)	11:20
11:40		Nitrous oxide emissions and other reactive nitrogen losses from China's food system for the shared socioeconomic pathways -- Wang, Mengru (Wageningen Uni / CAS)		Updated Guidance for Estimating Fluorinated GHG and N <sub>2</sub> O Emissions from Electronics Manufacturing -- Beu, Laurie (Laurie Beu Consulting), presented by Deborah Ottinger (US EPA)		High fire derived N deposition and indirect N <sub>2</sub> O emission in Congo basin forests -- Bauters, Marijn (Uni Gent; ISOFYS / CAVElab), presented by Boeckx, Pascal (Uni Gent)		Techniques to reduce emissions from manure -- Aarnink, Andre (Wageningen Livestock Research)		Constraints on OH in a global 3-D model inversion of MCF -- Naus, Stijn (Wageningen Uni)			11:40
12:00		Reducing greenhouse gas emissions while maintaining yield in the croplands of Huang-Huai-Hai Plain, China -- Wang, Guocheng (Chinese Academy of Sciences)		Basis for Developing a Methodology to Estimate Fluorinated GHG Emissions from the Fluorinated Treatment of Textile, Carpet, Leather, and Paper -- Zille, Andrea (Uni Minho)		Tropical forests of the Congo Basin are a weak source of N <sub>2</sub> O and a strong sink for CH <sub>4</sub> -- Barthel, Matti (ETH Zürich)		Techniques to reduce enteric CH <sub>4</sub> emissions -- Šebek, Léon (Wageningen Livestock Research)		Improvement of Black Carbon emissions and modelled concentrations in Germany -- Manders, Astrid (TNO)		Upper tropospheric and stratospheric trends of greenhouse gases as derived from MIPAS observations -- Stiller, Gabrielle P. (KIT)	12:00
12:20				Updated Guidance for Estimating Hydrofluorocarbon Emissions from Refrigeration and Air-Conditioning -- Bjaness, Kathrine Loe (NEA), presented by Maione, Michela (Urbino Uni, CNR-ISAC)				Closing session		Inter-model comparison of global hydroxyl radical fields and influences on methane simulations -- Zhao, Yuanhong (LSCE)		Evaluation and analysis of the seasonal cycle and trend of methane from the Greenhouse Gases Observing Satellite (GOSAT) -- Kivimäki, Ella (FMI)	12:20

12:40 Lunch & Poster Lunch & Poster Lunch & Poster Lunch & Poster Lunch & Poster Lunch & Poster

13:30	<b>CROPS</b> Chair: Nicholas Cowan	Gap filling and quantifying uncertainties of nitrous oxide flux measurements at the field scale -- Cowan, Nicholas (Centre for Ecology & Hydrology)	<b>SYNTHETIC GHG</b> Chair: Deborah Ottinger	How the Refinements Address the PFC Gap -- Ottinger, Deborah (US EPA)	<b>AFRICA</b> Chairs: Klaus Butterbach-Bahl & Lutz Merbold	Bomas and grals: overseen hotspots of N <sub>2</sub> O emissions from African livestock systems -- Butterbach Bahl, Klaus (KIT)	<b>AGRICULTURE &amp; FORESTRY GHG Summer School</b> Chair: Frank O'Mara	Joint Workshop FACCE ERA-GAS and MEMO2: Proposal writing -- Walter, Sylvia (Utrecht Uni)	<b>REACTIVE SPECIES</b> Chairs: Helen Worden & Ben Gaubert	Global trends in carbon monoxide concentrations and emissions -- Worden, Helen (NCAR)	<b>AIRPLANE OBSERVATION</b> Chair: Iise Aben	Using airborne observations to quantify N <sub>2</sub> O emissions from fertilizer plants and croplands in the Mississippi River Valley -- Kort, Eric A. (Michigan Uni)	13:30
13:50		Re-evaluation of nitrous oxide emission factors for arable and grassland ecosystems -- O'Neill, Macdara (Teagasc / Uni College Dublin), presented by Osborne, Bruce (Uni College Dublin)		Calculating HFC-emissions from cooling equipment -- Honig, Erik (RIVM)		Towards improved emission factors for ruminant methane emissions in Africa -- Goopy, J.P. (ILRI, Uni Melbourne)		Trends in Carbon Monoxide Abundance as Inferred from an Ensemble of Chemical Reanalyses and their Implications to Air Quality/Greenhouse Gas Emissions Monitoring -- Arellano, Avelino (Uni Arizona), presented by Gaubert, Benjamin (NCAR)		Trends in Carbon Monoxide Abundance as Inferred from an Ensemble of Chemical Reanalyses and their Implications to Air Quality/Greenhouse Gas Emissions Monitoring -- Arellano, Avelino (Uni Arizona), presented by Gaubert, Benjamin (NCAR)		Long-term global-Scale Monitoring of Trace Gases and Aerosols on the IAGOS-CARIBIC passenger aircraft: A leverage for improving the process representation of climate models -- Bönisch, Harald (KIT), presented by Zahn, Andreas (KIT)	13:50
14:10		Nitrous oxide emissions from oilseed rape in response to varying nitrogen applications -- Rees, Robert M. (Scotland's Rural College)		Destruction HFC refrigerant from wasted motor vehicles and electrical equipment -- Lu Ju-Hsiu Cheng, Joey Ching-Hui (ITRI)		Effect of dung quantity and quality on greenhouse gas fluxes from tropical pastures in Kenya -- Zhu, Yuhao (KIT)		4-D optimization of CO and OH, can we disentangle errors from chemistry and emissions? -- Gaubert, Benjamin (NCAR)		4-D optimization of CO and OH, can we disentangle errors from chemistry and emissions? -- Gaubert, Benjamin (NCAR)		Transport pathways of high CH <sub>4</sub> events observed over the western North Pacific -- Niwa, Yosuke (NIES, MRI)	14:10
14:30		Dryland Nitrous Oxide Emissions with Crop Rotation and Nitrogen Fertilization -- Sainju, Upendra M. (USDA-ARS)				Greenhouse gas measurements in East-African rangelands: Kapiti Research Station as a benchmark site for sustainable wildlife livestock keeping -- Merbold, Lutz (ILRI)		Closure of the FACCE ERA-GAS Summer School -- Vashev, Boris (FNR)				Airborne monitoring of seasonal dynamics of carbon dioxide exchange in the Netherlands. -- Hufjes, Ronald (Wageningen Uni)	14:30
14:50		The impact of tillage on the land-atmosphere exchange of GHG from a Mediterranean rotation cropland -- Gasbarra, Daniele, presented by Famulari, Daniela (CNR-ISAFOM)				Appropriate approaches for enhancing carbon and greenhouse gas research in developing countries - current status and suggestion for further development -- Kim, Dong-Gill (Hawassa Uni)							14:50