

9:00

PLENARY  
Arjan Hensen

**Arjan Hensen (TNO)**  
**Renske Schouwink & Maarten Fokma (Youth Environment Council)**  
**Ute Skiba (CEH)**

**Formal opening of the conference**  
**Youth requests for action**  
**The Cinderella soil nitric oxide source**

**WEDNESDAY**  
**JUNE 21**

9:00

10:35

POSTER PRESENTERS (see below)

SHORT PITCHES OF POSTER PRESENTATIONS (see below)

10:35

UvA 2-3-4

Sorbonne

UvA 1

Oxford

Stellenbosch

11:00

MITIGATION AND SOCIO-ECONOMIC IMPACT  
Chair: Lena Höglund Isaksson (IIASA)

Addressing methane to mitigate near-term climate change - Höglund-Isaksson, Lena (IIASA)

METHANE AND WATER SYSTEMS  
Chair: Ilona Velzeboer (TNO) & Jeroen de Klein (Wageningen Uni)

Synergistic enhancement of sediment methane flux by Tubifex tubifex (Annelida: Oligochaeta) and green algae (Chlorella sp.) - Mehring, Andrew S. (Uni Louisville)

N2O  
Chair: Gerard Velthof (Wageningen Uni)

Biological nitrification inhibition in temperate pasture species for reducing N2O emissions: opportunities and challenges - Klein, Cecile de (Agresearch)

EMISSION INVENTORIES, VALIDATION AND VERIFICATION  
Chair: Margreet van Zanten (RIVM)

IPCC's work on methodologies to estimate emissions of non-CO2 greenhouse gases (GHGs) and other Short-lived Climate Forcers (SLCFs) - Enoki, Takeshi; Jamsranjav, Baasansuren and Shermanau, Pavel (IPCC TFI TSU)

AFRICA  
Chair: Klaus Butterbach Bahl (KIT - Karlsruhe Inst of Technology)

Analysis of the Spatial-Temporal Variation of the Tropospheric Ozone Concentration in Nigeria - Ibeh, Gabriel Friday (Evangel Uni, Nigeria)

11:00

11:20

Demand side non-CO2 solutions key to Just Transition under climate change mitigation scenarios - George, Mei V. (Uni Maryland)

Methane measurements in North Sea water - Velzeboer, Ilona (TNO)

Guidelines for statistical inference from chamber measurements of N2O and CH4 fluxes - Levy, Peter (CEH - UK Ctr for Ecology and Hydrology)

Paris - Process attribution of regional emissions - Ganesan, Anita (Uni Bristol)

Continuous N2O and CH4 fluxes from a semi-deciduous tropical forest soil in the Congo Basin - Daelman, Roxanne (Ghent Uni, ISOFYS)

11:20

11:40

State-Level Non-CO2 Greenhouse Gas Mitigation Through 2050 - Petrusa, Jeffrey (RTI)

Small scale reservoirs promote methane emissions from freshwater systems. - Klein, Jeroen de (WUR - Wageningen Uni and Research)

Establishing a baseline for N2O emissions from synthetic and organic fertilisers, and crop rotations, under Danish conditions - Petersen, Søren O. (Aarhus Uni)

EYE-CLIMA: A Horizon Europe project to support national inventories for emissions of climate forcers - Thompson, Rona (NILU)

High inter-annual variability in the carbon budget of a Southern African wetland: the Okavango Delta, Botswana. - Helfter, Caro (CEH - UK Ctr for Ecology and Hydrology)

11:40

12:00

Towards a new international governance framework for methane emissions mitigation - O'Dowd, Kim (EIA - Environmental Investigation Agency)

How does sediment organic matter content mediate the effects of chironomid larvae on benthic greenhouse gas fluxes? - Tierney, Mark (Uni Louisville)

Modeling N2O emissions from agricultural soils in Western Europe: Performance of DayCent model - Reis Martins, Marcio dos (Agroscope Research Inst)

AVENGERS: Attributing and Verifying European and National Greenhouse gas and aerosol Emissions and Reconciliation with Statistical bottom-up estimates - Scholze, Marko (Lund Uni)

Methane and nitrous oxide emissions and nitrogen leaching from manure heaps and management interventions representing African smallholder farms - Zhu, Yuhao (ILRI)

12:00

12:20

Combining national and sectoral monitoring of greenhouse gas emissions in agriculture - Mostert, Pim (WUR - Wageningen Uni and Research)

Data-driven scheme to model global CH4 emissions in wetlands and inundated areas - Bernard, Juliette (LSCE-IPSL)

Effect of partial and full application of nitrification inhibitors on N2O emissions from different mineral fertilizers in winter wheat - Brueggemann, Nick (Forschungszentrum Jülich)

Improving the spatio-temporal variability of greenhouse gas emissions for North-Western Europe - Banzhaf, Sabine (Freie Uni Berlin, Inst of Meteorology)

Livestock Diversification: an option to sustain milk production with lower GHG emission in the face of climatic and environmental changes in sub-Saharan Africa - Rahimi, Jaber (KIT - Karlsruhe Inst of Technology)

12:20

12:40

Lunch & Posters

Lunch & Posters

Lunch & Posters

Lunch & Posters

Lunch & Posters

12:40

14:00

Livestock Greenhouse Gas Emissions and its Equivalent Social Cost in the Province of Rizal, Philippines - Bautista, Jusiedave M. (Philippine Council for Industry)

A secure method for representativeness of greenhouse gas emission factors in the semiconductor and display fields in Korea - Kang, Seongmin (Sejong Uni)

Influence of Transport Model Resolution on Top-down Emission Estimates of non-CO2 Green-house Gases from Switzerland - Henne, Stephan (EMPA)

Basin-scale estimates of greenhouse gas emissions from the Mara River, Kenya: importance of discharge, stream size, and land use / land cover - Mwanake, Ricky M. (KIT - Karlsruhe Inst of Technology)

14:00

14:20

Marginal Abatement Cost Curves for Reducing Global Agricultural Non-CO2 Greenhouse Gas Emissions: Country-Level Potential through 2080 - Beach, Robert (RTI)

Development of greenhouse gas emission factors in the semiconductor and display fields according to Tier 3 data - Woo, Jiyun (Sejong Uni)

Estimation of greenhouse gas budgets in Finland - towards validation of National inventory with atmospheric inverse model - Tsuruta, Aki (FMI - Finnish Meteorological Institute)

Multi-site analysis and modelling of the effects of tropospheric ozone on vegetation - Vieira, Ines (Ghent Uni)

14:20

14:40

Uncertainty in non-CO2 greenhouse gas mitigation: Make-or-break for global climate policy feasibility - Harmsen, Mathijs (PBL)

Assessing emission mitigation efforts for F-gases on multiple scales by combining atmospheric observations and activity-based inventory approaches. - Montzka, Stephen A. (US Oceanic and Atmospheric Admin)

TOPAS-CH4: A methane source attribution tool for policy support and scientific application - Segers, Arjo (TNO)

Enteric methane emission factors for dairy goats in South Africa - Moeletsi, Mokhele (Agricultural Research Council, South Africa)

14:40

15:00

Global Mitigation of Non-CO2 Greenhouse Gases: 2025-2050 - Ragnauth, Shaun (EPA - US Environmental Protection Agency)

PEATLANDS  
Chair: Merit van den Berg (Vrije Uni)

Does urine patch nitrogen level affect nitrous oxide (N2O) and dinitrogen (N2) fluxes from a grazed pasture soil? - Klein, Cecile de (Agresearch)

F-gases and N2O Reduction Emissions in Taiwan's industry - Lu, Ching Hui (ITRI - Industrial Technology Research Inst)

U.S. Use and Emissions of Sulfur Hexafluoride: Comparisons Across Four Datasets - Ottinger, Deborah (EPA - US Environmental Protection Agency)

Mechanisms behind high N2O emissions from livestock enclosures in Kenya determined by dual isotope and functional gene analysis - Fang, Xiantao (ETH Zurich)

15:00

15:20

Nitrous Oxide fluxes from fertilized peatland in the Netherlands with three groundwater level management systems applied. - Frumau, Arnoud (TNO)

Nitrous Oxide fluxes from fertilized peatland in the Netherlands with three groundwater level management systems applied. - Frumau, Arnoud (TNO)

U.S. Use and Emissions of Sulfur Hexafluoride: Comparisons Across Four Datasets - Ottinger, Deborah (EPA - US Environmental Protection Agency)

Recent Eurasian trends of methane and carbon monoxide and their response on global changes - Rakitin, Vadim (IFARAN)

Analyzing global inventories for methane emissions from production of fossil fuels - Tibrewal, Kushal (ISCE-IPSL)

15:20

15:40

Sorbonne

UvA 1

Oxford

Stellenbosch

15:40

16:10

A new methane emission registration system for peatlands in the Netherlands - Berg, Merit van den (Vrije Uni Amsterdam)

PEATLANDS  
Chair: Christian Brümmer (Thünen Inst) & Merit van den Berg (Vrije Uni)

A new methane emission registration system for peatlands in the Netherlands - Berg, Merit van den (Vrije Uni Amsterdam)

HFC mitigation pathways compatible with 1.5 oC in the context of the Kigali Amendment - Purohit, Pallav (IIASA)

Recent Eurasian trends of methane and carbon monoxide and their response on global changes - Rakitin, Vadim (IFARAN)

Analyzing global inventories for methane emissions from production of fossil fuels - Tibrewal, Kushal (ISCE-IPSL)

16:10

16:30

Management of drained peatlands by selective forest harvesting and rewetting as a mean of climate mitigation in Finland - Aalto, Tuula (\*) (FMI - Finnish Meteorological Institute)

Management of drained peatlands by selective forest harvesting and rewetting as a mean of climate mitigation in Finland - Aalto, Tuula (\*) (FMI - Finnish Meteorological Institute)

Investment in the ozone treaty can secure significant greenhouse gas emission reductions into the future. - Perry, Clare (EIA - Environmental Investigation Agency)

Comparing ICON-ART model simulation of Nord Stream methane leaks with observations at various ICOS stations - Sunkisala, Anusha (DWD - Deutsches Wetterdienst)

High potential for CH4 emission mitigation from oil infrastructure in one of EU's major production regions - Stavropoulou, Foteini (Utrecht Uni)

16:30

16:50

Methane exchange over a rewetted and formerly afforested blanket bog (Scotland) - Coyle, Mhairi (James Hutton Inst)

Methane exchange over a rewetted and formerly afforested blanket bog (Scotland) - Coyle, Mhairi (James Hutton Inst)

TENTATIVE - Adjustments to hydrofluorocarbon consumption and emission modeling in the United States - Godwin, David S. (EPA - US Environmental Protection Agency)

Updated methane and ethane emission inventory for Europe to support methane source attribution - Visschedijk, Antoon (TNO)

Methane emissions from offshore oil and gas production activities in Gabon and Angola: First results from the airborne METHANE-To-Go campaign 2022 - Roiger, Anke (DLR - German Aerospace Center, Inst of Atmospheric Physics)

16:50

17:10

Methane emissions from Dutch peatlands measured by eddy covariance - Buzacott, Alexander J.V. (Vrije Uni Amsterdam)

Methane emissions from Dutch peatlands measured by eddy covariance - Buzacott, Alexander J.V. (Vrije Uni Amsterdam)

Comparison of halocarbon observations between the Zugspitze and the Taunus Observatory, Germany - Meixner, K. (Goethe Uni Frankfurt)

Investigation of the post-2007 methane renewed growth with high-resolution 3-D variational inverse modelling and isotopic constraints - Berchet, Antoine (LSCE-IPSL)

A Study to identify a methodology for estimating methane emissions from the distribution equipment and pipeline of the natural gas supply chain using the Hi-Flow sampling method in Razavi Khorasan province of Iran - Afshoun, Hamid Reza (Khorasan Razavi Gas Company)

17:10

17:30

Combined effects of different groundwater levels and grazing on N2O emissions from a peat meadow - Blondeau, Erne (WUR - Wageningen Uni and Research)

Combined effects of different groundwater levels and grazing on N2O emissions from a peat meadow - Blondeau, Erne (WUR - Wageningen Uni and Research)

Comparison of halocarbon observations between the Zugspitze and the Taunus Observatory, Germany - Meixner, K. (Goethe Uni Frankfurt)

Updated methane and ethane emission inventory for Europe to support methane source attribution - Visschedijk, Antoon (TNO)

ROME visits Transylvania - Romanian Methane Emissions from Oil & gas - Jagoda, Pawel (AGH Uni of Science and Technology, Kraków)

17:30

17:50

18:30 -  
21:30

OPTIONAL: Conference dinner -- Conference dinner -- Conference dinner -- Conference dinner -- Conference dinner -- Conference dinner

17:50

9:00

9:00

PLENARY  
Carolien Kroeze

**Wim de Vries** (Wageningen Uni)  
**Adriana Gomez Sanabria** (IIASA)

**Impacts of anthropogenic N fixation on greenhouse gas exchange at global scale**  
Panel discussion: **To burn or not to burn, what do we do with waste?**

**THURSDAY  
JUNE 22**

10:30

10:30

UvA 2-3-4

Sorbonne

UvA 1

Oxford

Stellenbosch

11:00

11:00

**GLOBAL BUDGET**  
Chair: **Alex Vermeulen** (ICOS)

A new mechanism for tropospheric chlorine production via iron salt aerosols - Herpen, Maarten van (Utrecht Uni)  
Impact of iron in shipping plumes on global methane - Herpen, Maarten van (Uni Copenhagen)

**N2O & CH4 AND LAND USE**  
Chair: **Ute Skiba** (CEH - UK Ctr for Ecology and Hydrology)

Nitrous oxide emission from agriculture in the Netherlands: trends and future challenges - Velthof, Gerard L. (Wageningen Uni and Research)

**SATELLITE OBSERVATIONS**  
Chair: **Sander Houweling** (Vrije Uni Amsterdam)

Quantification of methane emissions from anthropogenic, localized emission sources using satellites - Boesch, Hartmut (Uni Leicester)

**ANIMAL HOUSING & ENTERIC FERMENTATION**  
Chair: **Karin Groenestijn** (Wageningen Livestock Research)

Monitoring of methane emissions from in-barn manure storages in dairy cattle and fattening pig farms - Sefeedpari, Paria (WUR - Wageningen Uni and Research)

**WASTE MANAGEMENT**  
Chair: **Adriana Gómez Sanabria** (IIASA)

Open waste burning impact on air quality - Famulari, Daniela (CNR-ISAFOM)

11:20

11:20

Global ensemble chemical data assimilation to efficiently estimate initial conditions and emissions by source - Gaubert, Benjamin (NCAR)

Suitability of eddy covariance and chamber measurements to determine N2O emission factors for grassland - Ammann, Christof (Agroscope Research Inst)

A new generation of airborne imaging spectrometer systems for accurate mapping of atmospheric CH4 (and CO2) concentrations - status and perspectives - Bovensmann, Heinrich (Bremen Uni)

Non-CO2 Breakthrough Technologies: Reducing Methane from Enteric Fermentation - Creason, Jared (EPA - US Environmental Protection Agency)

Quantification of Methane Emission Rates and Isotopic Source Signatures from Biogas Plants in Germany - Wietzel, Julia (Heidelberg Uni)

11:40

11:40

Top-down estimate of methane emissions from Siberia using a Bayesian atmospheric inversion - Marthinsen, Erik (NILU)

N2O emissions from cattle grazing: What are the emission drivers? - Barczyk, Lena (Agroscope Research Inst)

Enhanced monitoring of atmospheric methane from space with hierarchical Bayesian inference - Roberts, Clayton (Cornell Uni)

Frequent export reduced methane but not ammonia emissions from pig manure in cold and warm seasons - Ma, Chun (Aarhus Uni)

A comparison study of methane and nitrous oxide emissions from three landfills in the Netherlands - Zhang, Jun (TNO)

12:00

12:00

Atmospheric CH4 and N2O from NOAA's global background measurements - Lan, Xin (Uni Colorado)

Nitrous oxide emission from treated manure applied to maize and grassland - Hull, Jordy van 't (Wageningen Uni and Research)

Current potential of CH4 emission estimates in Africa and the Middle East using TROPOMI - Weele, Michiel van (KNMI - Royal Netherlands Meteorological Inst)

Methane emissions of the Dutch dairy sector from 1950 - 2050, a reconstruction and outlook - Vellinga, Theun (WUR - Wageningen Uni and Research)

Real-time air concentrations and turbulent fluxes of Volatile Organic Compounds (VOCs) over historic closed landfills to assess their potential environmental impact - Manco, Antonio (CNR-ISAFOM)

12:20

12:20

Preliminary results of the Global Methane Budget 2000-2020: improved budget and insight in recent changes in the methane budget - Saunio, Marielle (Uni Paris Saclay France)

Generating a 4D Global CH4 Product by Assimilating TROPOMI column CH4 in NASA's GEOS GCM - Balashov, Nikolay V. (NASA)

In-vitro method and model to estimate methane emissions from liquid manure management - Petersen, Søren O. (Aarhus Uni)

The contribution of waste management to global greenhouse gas emissions - Why is remote sensing important and what should be done with the results - Scharff, Heijo (Afvalzorg)

12:40

12:40

Lunch & Posters

Lunch & Posters

Lunch & Posters

Lunch & Posters

Lunch & Posters

14:00

14:00

Climate and air quality impacts of methane, CO and NOx mitigation in a methane emissions-driven model - Staniaszek, Zosia (Uni Cambridge, dept Chemistry)

Greenhouse gas emissions induced by renewal and conversion of agricultural grassland - Ros, Mart B.H. (Wageningen Uni and Research)

Individual on-barn assessment of the daily methane production rate of dairy cows by the Cubicle Hood Sampler: A validation study - Levraut, Cécile (WUR - Wageningen Uni and Research)

Using multiple satellites to detect and quantify methane super-emitting landfills - Maasackers, Joannes D. (SRON - Netherlands Inst for Space Research)

14:20

14:20

What do atmospheric  $\delta^{13}C_{CH_4}$  measurements tell us about the attribution of methane trends over the past decades? - Basu, Sourish (NASA, Uni Maryland College Park)

Temperate forest soils: a source or a sink for nitrous oxide and methane under elevated levels of reactive nitrogen? - Toteva, Galina (CEH - UK Ctr for Ecology and Hydrology)

Measuring emissions from manure on semi-pilot scale with 6 mini silo's - Maasdam, Rik (WUR - Wageningen Uni and Research)

Adoption of circular waste management systems to mitigate methane emissions and support the realization of the Global Methane Pledge and beyond - Gómez-Sanabria, Adriana (IIASA)

14:40

14:40

Evaluation of  $^{14}CO$  as a Tracer of OH in a Global Model - Blyth, Liam (Imperial College London)

Synthesizing the evidence of nitrous oxide mitigation practices in agroecosystems - Grados, Diego (Aarhus Uni)

Supporting the transition towards carbon-zero dairy farming systems in New Zealand - Klein, Cecile de (Agrisearch)

Remote presentation to be announced - Mariel Vilella (GAIA, Global Alliance for Incinerator Alternatives)

15:00

15:00

15:00

15:00

Accounting for non-linearity of N2O emissions from agricultural soil surfaces in the GAINS model - Kaltenegger, Katrin (IIASA)

Remote presentation to be announced - Sandra Mazo-Nix (Climate and Clean Air Coalition)

15:20

15:20

Assessing the potential tradeoff between soil carbon sequestration and N2O emissions - Porre, Rima (Wageningen Uni and Research)

15:40

15:40

**EXCURSION**

OPTIONAL:  
SPACE EXPO  
NOORDWIJK  
(returns ~19:00)

**EXCURSION**

OPTIONAL:  
AFVALZORG  
WASTE CARE  
NAUERNA  
(returns ~19:00)

~19:00

~19:00

16:10

9:00	<b>PLENARY</b> Peter Builittjes <b>Sybrig Smit (NewClimate Institute)</b> <b>Guus Velders (RIVM)</b> <b>Andreas Engel (Uni Frankfurt)</b> <b>Corporate climate ambition and non-CO2 GHG accounting loopholes</b> <b>The Montreal protocol does work... what lessons to take on board</b> <b>Expanding the European observational network for halogenated greenhouse gases</b>				<b>FRIDAY</b> <b>JUNE 23</b>		9:00		
10:30	<b>UvA 2-3-4</b>		<b>Sorbonne</b>	<b>UvA 1</b>		<b>Oxford</b>	<b>Stellenbosch</b>	10:30	
11:00	<b>MITIGATION AND SOCIO-ECONOMIC IMPACT pt2</b> Chair: <b>Lena Höglund Isaksson (IIASA)</b> Exploring Global Drastic Reduction Pathways of Short-Lived Climate Forcers and Air Pollutants while Achieving Global Carbon-Neutrality - Hanaoka, Tatsuya (NIES) Global Methane Pledge: Potential Reductions, Cost, and Policy - Ragnauth, Shaun (EPA - US Environmental Protection Agency) Large uncertainty on residual non-CO2 greenhouse gas emissions under net-zero emission targets in major emitting economies - Nascimento, Leonardo (NewClimate Inst)		<b>TROPICAL ECOSYSTEMS</b> Chair: <b>Kristell Hergoualc'h (CIFOR) &amp; Erin Swails (CIFOR)</b> Greenhouse gas emissions and soil emission factors associated with different types of practices and agroforestry cocoa cultivation coverage - Durango, Sandra (CGIAR - Intl Ctr for Tropical Agriculture) Impacts of Rewetting Degraded Peatlands on Methane fluxes in West Kalimantan, Indonesia - Novita, Nisa (Yayasan Konservasi Alam Nusantara, Indonesia) Establishing a national inventory of CH4 and N2O Emission from rice systems in Vietnam – Seasonality, hotspots and sources of uncertainties - Butterbach-Bahl, Klaus (KIT - Karlsruhe Inst of Technology)		<b>REACTIVE GASES AND AEROSOLS</b> Chair: <b>Peter Builittjes</b> Global net radiative forcing induced by anthropogenic reactive nitrogen - Gong, Cheng (Max Planck Inst for Biogeochemistry) Seasonal evolution of ultrafine, fine and coarse aerosol above a broadleaf deciduous forest - Bignotti, Laura (Uni Cattolica Brescia, Katholieke Uni Leuven) Aerosol fluxes above pastures in two valleys of the central Italian Alps - Bignotti, Laura (Uni Cattolica Brescia, Uni Trento) Variability of Ozone sink and its drivers in a deciduous mature forest in Northern Italy - Bignotti, Laura (Uni Cattolica Brescia)		<b>METHANE AND FOSSIL SOURCES pt2</b> Chair: <b>Thomas Rockmann (Uni Utrecht)</b> Methane emission from coal mining – can we measure it reliably? - Jagoda, Pawel (AGH Uni of Science and Technology, Kraków) Laying foundation for mitigation through accounting methane emissions from active underground mines using safety measurements - Roshchanka, Volha (EPA - US Environmental Protection Agency) Aircraft-based mass balance estimate of methane emissions from offshore gas facilities in the Southern North Sea - Pühl, Magdalena (DLR - German Aerospace Center) Measurement-based intercomparison of three gas leak quantification techniques: a case study in Hamburg - Maazallahi, Hossein (Utrecht Uni)		11:00
11:20									11:20
11:40									11:40
12:00									12:00
12:20									12:20
12:40	<b>ARCTIC</b> Chair: <b>Andreas Fix (DLR - German Aerospace Center)</b> Recent atmospheric methane observations over the Arctic seas. - Skorokhod, Andrey (Obukhov Inst of Atmospheric Physics RAS) The survey of atmospheric methane sources in the Arctic in 2015-2022 using shipborne direct measurements - Skorokhod, Andrey (Obukhov Inst of Atmospheric Physics RAS) CoMet 2.0 Arctic: Carbon Dioxide and Methane Mission for HALO - Fix, Andreas (DLR - German Aerospace Center) Estimation of the Arctic CH4 flux based on an ensemble of atmospheric inversions and aircraft observations - Belikov, Dmitry A. (Chiba Uni)		<b>MEASUREMENT SYSTEMS &amp; METHODS</b> Chair: <b>Arjan Hensen (TNO)</b> Updating the LI-7810 CH4/CO2/H2O Trace Gas Analyzer for Deployment at High Altitude - Leggett, Graham (LI-COR) Single Instrument for Simultaneous Monitoring of Greenhouse Gases and Air Pollutants - Hundt, Morten (MIRO) ALBATROSS: A balloon-borne spectrometer for water vapor measurements in the upper atmosphere - Brunamonti, Simone (EMPA)		<b>LOCAL AND REGIONAL BUDGETS</b> Chair: <b>Peter van Velthoven (KNMI)</b> Rotterdam Ruisdael campaign – evaluation of mobile measurements - Hensen, Arjan (TNO) Assimilation of methane plume data with grid-scale emissions maps from atmospheric inversions. - Pandey, Sudhanshu (California Inst of Technology, Jet Propulsion Laboratory) Long-term continuous atmospheric N2O observations at the ICOS tall towers in Germany - Zwerschke, Elena (Uni Heidelberg) Methane and ethane emission quantification in high spatial and temporal resolution - Bruin, Gerrit Jan de (TNO) Variability of methane, carbon monoxide and AOD over Eurasia and changes in their trends - Rakitin, Vadim (IFARAN) Urban emissions of N2O and CH4 quantified by airborne observations - Tong, Xin (RUG - Uni Groningen)		<b>HALOCARBONS</b> Chair: <b>Martin Vollmer (EMPA) &amp; Stefan Reimann (EMPA)</b> Globally and regionally consistent SF6 emissions – critical remarks on inversion techniques and inverse model results for the past two decade - Vojta, Martin (Uni Vienna) Inhalation anesthetics in the atmosphere: Trends of abundances and global emissions of the potent greenhouse gases halothane, desflurane, isoflurane, and sevoflurane. - Vollmer, Martin (EMPA) Halogenated Greenhouse Gas Observations for Tracking Sources and Emissions in the Netherlands - Rust, Dominique (EMPA) Annual Kigali Index (AKI): A Novel Measurement-Based Policy Tool for Checking the global HFC Phase-Down - Reimann, Stefan (EMPA)		12:40
13:30	<b>ARCTIC</b> Chair: <b>Andreas Fix (DLR - German Aerospace Center)</b> Recent atmospheric methane observations over the Arctic seas. - Skorokhod, Andrey (Obukhov Inst of Atmospheric Physics RAS) The survey of atmospheric methane sources in the Arctic in 2015-2022 using shipborne direct measurements - Skorokhod, Andrey (Obukhov Inst of Atmospheric Physics RAS) CoMet 2.0 Arctic: Carbon Dioxide and Methane Mission for HALO - Fix, Andreas (DLR - German Aerospace Center) Estimation of the Arctic CH4 flux based on an ensemble of atmospheric inversions and aircraft observations - Belikov, Dmitry A. (Chiba Uni)		<b>MEASUREMENT SYSTEMS &amp; METHODS</b> Chair: <b>Arjan Hensen (TNO)</b> Updating the LI-7810 CH4/CO2/H2O Trace Gas Analyzer for Deployment at High Altitude - Leggett, Graham (LI-COR) Single Instrument for Simultaneous Monitoring of Greenhouse Gases and Air Pollutants - Hundt, Morten (MIRO) ALBATROSS: A balloon-borne spectrometer for water vapor measurements in the upper atmosphere - Brunamonti, Simone (EMPA)		<b>LOCAL AND REGIONAL BUDGETS</b> Chair: <b>Peter van Velthoven (KNMI)</b> Rotterdam Ruisdael campaign – evaluation of mobile measurements - Hensen, Arjan (TNO) Assimilation of methane plume data with grid-scale emissions maps from atmospheric inversions. - Pandey, Sudhanshu (California Inst of Technology, Jet Propulsion Laboratory) Long-term continuous atmospheric N2O observations at the ICOS tall towers in Germany - Zwerschke, Elena (Uni Heidelberg) Methane and ethane emission quantification in high spatial and temporal resolution - Bruin, Gerrit Jan de (TNO) Variability of methane, carbon monoxide and AOD over Eurasia and changes in their trends - Rakitin, Vadim (IFARAN) Urban emissions of N2O and CH4 quantified by airborne observations - Tong, Xin (RUG - Uni Groningen)		<b>HALOCARBONS</b> Chair: <b>Martin Vollmer (EMPA) &amp; Stefan Reimann (EMPA)</b> Globally and regionally consistent SF6 emissions – critical remarks on inversion techniques and inverse model results for the past two decade - Vojta, Martin (Uni Vienna) Inhalation anesthetics in the atmosphere: Trends of abundances and global emissions of the potent greenhouse gases halothane, desflurane, isoflurane, and sevoflurane. - Vollmer, Martin (EMPA) Halogenated Greenhouse Gas Observations for Tracking Sources and Emissions in the Netherlands - Rust, Dominique (EMPA) Annual Kigali Index (AKI): A Novel Measurement-Based Policy Tool for Checking the global HFC Phase-Down - Reimann, Stefan (EMPA)		13:30
13:50									13:50
14:10									14:10
14:30									14:30
14:50									14:50
15:00									15:00
16:00	<b>PLENARY</b> ... <b>Wrap-up and conclusions, with drinks</b>								16:00

### Poster presentations

#### POSTERS

Development of a cryogenic pre-concentrator for continuous measurement of Halogenated Greenhouse gases in ambient level - Kwon, Dohyeon (Korea Research Inst of Standards and Science)

Development of a Field-Deployable, Portable Trace N2O Analyzer – Performance Evaluation and Field Testing Demonstrating the Determination of Low N2O Flux - Leggett, Graham (LI-COR)

Linking atmospheric CH4 and CO2 anomalies to weather anomalies on the European continent - Narbaud, Clément (ISCE-IPSL)

Continuous monitoring of the isotopic composition of methane at European sites. - Es, Jacqueline van (Utrecht Uni)

Methane and nitrous oxide emissions from intensively managed grassland on bog peat soil – Temporal dynamics and annual budget estimations from eddy-covariance and static chamber measurements - Wintjen, Pascal (Thünen Inst of Climate-Smart Agriculture)

Estimating European CH4 fluxes using the CarboScope Regional atmospheric inversion system - Koch, Frank-Thomas (Max Planck Inst for Biogeochemistry)

Eddy covariance (EC) measurements of CH4 and N2O fluxes above a lowland oak stand in SE England. - Yamulki, Sirwan (Forest Research, Centre for Forest Management, UK)

Potential of biochar and crop residues for enhancing CH4 uptake in fertilized soils - Walkiewicz, Anna (Polish Academy of Sciences)

Validation results of TROPOMI observations on the CO total column and NO2 tropospheric and stratospheric column by the ground-based spectroscopic measurements at the OIAP stations Moscow and Zvenigorod - Rakitin, Vadim (IFARAN)

Can dissolved oxygen concentration be an indicator for methane emissions in shallow surface waters? - Fokkenrood, Myrthe (WUR - Wageningen Uni and Research)

A new mechanism for tropospheric chlorine production via iron salt aerosols - Brashear, Chloe A. (Utrecht Uni)