Agenda for GCE1 (First GEOS-Chem Europe User's Meeting) 1-2 September 2020

http://acmg.seas.harvard.edu/geos/meetings/2020_GCE/index.html

Keynote and science talks are in the main webinar room. Networking with speakers and poster sessions are in separate Zoom sessions. Times are in BST (GMT+1).

Day 1, Tuesday 1 September	
-	ng Session: Air Quality : Mat Evans, U. York
09:40-10	Technology test for all session speakers
10-10:10	Meeting Welcome and Overview, Chair
10:10-10:40	KEYNOTE : Reducing planetary health risks through short-lived climate forcer mitigation, Nadine Unger, U. Exeter
10:40-11:40	Science Talks Session 1 (10 min each)
T.1	Online two-way coupling of WRF and GEOS-Chem for regional modelling, Xu Feng, Peking U.
T.2	Historical assessment of anthropogenic PM _{2.5} health impacts, Lulu Chen, Peking U.
T.3	Air quality and climate forcing of the charcoal industry in Africa, Alfred Bockarie, U. Birmingham
T.4	Variations in surface PM _{2.5} and health risks in China in 2013-2019, Zhongjing Jiang, Peking U.
T.5	Sources of air pollution over the East China Sea, Adedayo Adedeji, U. York
T.6	Hg from coal combustion in Thailand: emission update and implications to ecosystems, Win Trivitayanurak, Chulalongkorn U.
11:40-12:00	Network with speakers (parallel session)
11:40-12:00	Poster Session 1 mediated by Karn Vohra (parallel session)
P.1	Impact of new sources and sinks of atmospheric H2 using a CTM, Maria Pérez-Peña, U. NSW
P.2	Global high-resolution emissions of soil NOx, sea salt, and BVOCs, Hongjian Weng, Peking U.
P.3	GEOS-Chem vs observed CO2 in Asia, Yawen Kong, CAS
P.4	Assessing strict seasonal emission controls on N. China air quality, Gongda Lu, U. Birmingham
•	oon Session: Greenhouse Gases : Paul Palmer, U. Edinburgh
13:40-14	Technology test for all session speakers
14:00-14:02	Webinar Etiquette Reminder, Chair
14:02-14:30	KEYNOTE: GEOS-Chem model overview, Daniel Jacob (Harvard) and Randall Martin (WUSTL)
14:30-15:40	Science Talks Session 2 (10 min each)
T.7	Impacts of model resolution on the remote marine troposphere, Ryan Pound, U. York
T.8	CO ₂ fluxes in the Southern Ocean from GEOS-Chem-LETKF, Zhaohui Chen, U.E.A.

T.9 Estimating CH₄ emissions using nested grid GEOS-Chem simulations, Mark Lunt, U. Edinburgh T.10 Global CH₄ budget and trends in 2010-2017: comparison and inversion of suborbital and satellite

observations, Xiao Lu, Harvard

- T.11 Global CH₄ budget constrained with TROPOMI, Zhen Qu, Harvard
- T.12 Multi-Inversion Framework for Upper Midwest CH₄ Sources, Xueying Yu, U. Minnesota
- T.13 CH₄ isotope ratios in GEOS-Chem, Alice Drinkwater, U. Edinburgh
- 15:50-16:10 **Network with speakers**
- 16:20-16:50 **Poster Session 2** mediated by Tomas Sherwen
 - P.5 Understanding UK air quality with a CTM, Luke Fakes, U. York
 - P.6 Long-term trends in air quality in tropical megacities using EO, Karn Vohra, U. Birmingham
 - P.7 Characterising upper troposphere reactive N with aircraft measurements, Nana Wei, U. Leicester
 - P.8 Air quality and CO₂ emission impacts from large point sources in India, Raj Lal, Georgia Tech/IIT-Bombay
 - P.9 The 2014-2018 global C cycle as seen from OCO-2 using EnKF, Mehliyar Sadiq, U. Edinburgh
 - P.10 Impact of DMS oxidation on the marine atmosphere, Linia Tashmim, UC Riverside

Day 2, Wednesday 2 September

Day 2 Morning Session: Interface of Models and Satellites

Session Chair: Eloise Marais, UCL

- 9:40-10 Technology test for all session speakers
- 10-10:02 Webinar Etiquette Reminder, Chair
- 10:02-10:30 **KEYNOTE**: Changing NO_x chemistry over The Netherlands due to decreasing NO_x emissions and increases in ozone between 2005 and 2018 evidence from OMI, surface measurements, and emission inventories, Folkert Boersma, Wageningen/KNMI
- 10:30-11:30 Science Talks Session 3 (10 min each)
 - T.14 NO2 spatiotemporal differences across multiple satellite products, Yuhang Zhang, Peking U.
 - T.15 A new TROPOMI product of tropospheric NO₂ over East Asia with explicit aerosol correction, Jintai Lin, Peking U.
 - T.16 Impacts of biomass burning on air quality in Southeast Asia, Maggie Marvin, U. Edinburgh
 - T.17 Trends and drivers of surface and tropospheric O₃ over Southeast Asia in 2005-2014, Xiaolin Wang, Peking U.
 - T.18 Reformulating a widely used ozone sensitivity indicator, Amir Souri, Harvard-Smithsonian CfA
 - T.19 UK NH3 emissions derived with IASI and GEOS-Chem, Alok Pandey, U. Leicester
- 11:30-11:50 Network with speakers

Day 2 Afternoon Session: Aerosols

Session Chair: Mat Evans, U. York

- 13:40-14 Technology test for all session speakers
- 14:00-14:02 Webinar Etiquette Reminder, Chair
- 14:02-14:30 **KEYNOTE**: Past and future radiative forcing from small-magnitude volcanic eruptions, Anja Schmidt, U. Cambridge
- 14:30-15:30 Science Talks Session 4 (10 min each)
 - T.20 Aerosol growth through ion-mass flux, Irina Thaler, Hebrew U.
 - T.21 Climatic effects of absorbing aerosols in the atmosphere and on snow, Paolo Tuccella, U. L'Aquila
 - T.22 Links between cosmic rays and cloud formation with a new ion-aerosol mechanism, Irma Riádigos, U. Santiago de Compostela
 - T.23 Aerosol-radiation interactions in China in winter using a coupled chemistry-climate model, Jonathan Moch, Harvard
 - T.24 Evaluating quantitative techniques to assess policy impacts on air quality in changing meteorological conditions, Minghao Qiu. MIT
 - T.25 Nuclear power plant shutdowns: Impact on PM and O₃ across the US, Lyssa Freese, MIT
- 15:30-15:50 Network with speakers
- 16:00-16:30 Poster Session 3 mediated by Maggie Marvin
 - P.11 Framework for combining process- and data-driven models to reduce biases in PM_{2.5} from satellite AOD, Fei Yao, U. Edinburgh
 - P.12 20 years of spatial and seasonal variability in tropical O₃ and CO, Maria Tsivlidou, CNRS
 - P.13 Letting the BAT fly in GEOS-Chem: RH-dependent OA formation., Camilo S. Damha, McGill U.

- P.14 Long-term composition trends at Cape Verde, Matthew Rowlinson, U. York
- P.15 Understanding biomass burning's impact on O₃ in South Africa, Tomas Sherwen, NCAS/U. York
- P.16 Regional sensitivities of air quality to aviation emissions, Flávio Quadros, TU Delft
- 16:30-17 Close-out session