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

Day 1 Morning Session: Air Quality

Session Chair: 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 H_2 using a CTM, Maria Pérez-Peña, U. NSW

P.2 Global high-resolution emissions of soil NO_x, sea salt, and BVOCs, Hongjian Weng, Peking U.

P.3 GEOS-Chem vs observed CO_2 in Asia, Yawen Kong, CAS

P.4 Assessing strict seasonal emission controls on N. China air quality, Gongda Lu, U. Birmingham

Day 1 Afternoon Session: Greenhouse Gases

Session Chair: 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

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 CH_4 emissions using nested grid GEOS-Chem simulations, Mark Lunt, U. Edinburgh

T.10 Global CH_4 budget and trends in 2010-2017: comparison and inversion of suborbital and satellite observations, Xiao Lu, Harvard

T.11 Global CH_4 budget constrained with TROPOMI, Zhen Qu, Harvard

T.12 Multi-Inversion Framework for Upper Midwest CH_4 Sources, Xueying Yu, U. Minnesota

T.13 CH_4 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 CO_2 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: Mat Evans, U. York

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	NO_2 spatiotemporal differences across multiple satellite products, Yuhang Zhang, Peking U.
T.15	A new TROPOMI product of tropospheric NO_2 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 O_3 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 NH_3 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: Eloise Marais, UCL

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 O_3 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 O_3 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 O_3 in South Africa, Tomas Sherwen, NCAS/U. York
16:30-17	**Close-out session**