

**TRACER Science and logistics workshop
20-21 April 2020, Virtual Meeting
1400 UTC – 2230 UTC**

Monday AM, April 20

Host: Mike Jensen, **Moderator:** Eric Bruning

14:00 UTC Mike Jensen (BNL) “Welcome and Meeting Guidelines”

14:15 Mike Jensen (BNL), Chongai Kuang (BNL) “TRACER Science Motivation & Objectives” [30 minutes]

ACPC Motivating activities

14:45 Sue van den Heever (CSU) “ACPC model intercomparison results [20]

15:05 Jaixi Hu (CIMMS) “Observations of aerosol invigoration” [20]

15:25 Scott Collis (ANL) “NEXRAD climatology of isolated convection” [20]

15:45 Ann Fridlind (GISS) “Modeling of convective microphysics” [20]

16:05 Break

ARM Operations

16:20 Heath Powers (LANL), Dari Dexheimer (SNL) “Updates on ARM siting/ Instrumentation” (35)

16:55 Andrei Lindenmaier (PNNL), Pavlos Kollias (SBU/BNL) “C-SAPR operations – Hardware/Software” (35)

17:30 Meal Break

Monday PM, April 20

Host: Ann Fridlind, **Moderator:** Scott Collis

Existing instrument networks in Houston region

18:30 Jimmy Flynn (UH) “University of Houston Instrumentation” [20]

18:50 Weslee Copeland (TCEQ) “Texas Commission on Environmental Quality Monitoring Network” [20]

19:10 Tim Logan (TAMU), Eric Bruning (TTU) “Houston-area Lightning Mapping Array” [20]

Emerging Intra/Interagency Participation

19:30 Johannes Quaas (Leipzig) “TRACER- DE (Germany)” [15]

19:45 Laura Judd (NASA LaRC) “NASA Atmospheric Composition” [20]

20:05 Pavlos Kollias (SBU), Greg McFarquhar (OU) “National Science Foundation ESCAPE” [40]

20:45 Break

21:00 Manvendra Dubey (LANL) “Los Alamos National Laboratory” [15]

21:15 Steve Nesbitt (UIUC) “NASA Global Precipitation Mission” [20]

21:35 Brian McDonald (NOAA) “NOAA AEROMMA” [20]

21:55 Virendra Ghate (ANL) “ONR Twin Otter” [15]

22:10 Jorge Gonzalez (CCNY) “National Science Foundation uTRACER” [15]

Tuesday AM, April 21

Host: Scott Giangrande **Moderator:** Chongai Kuang

TRACER Forecasting Activities

14:00 Scott Collis (ANL) “Practice forecasting exercise – June 2020” [20]

14:20 Yunsoo Choi (UH) “AI forecasting applications” [20]

14:40 Mike Jensen (BNL), Scott Collis (ANL) “Campaign forecasting plan and Logistics” [20]

15:00 Mike Jensen (BNL) Interagency forecasting plans/needs discussion [30]

15:30 Break

TRACER Modeling (and other) Science Plans

15:45 Philip Stier (Oxford) “Convective updraft microphysics in the ACPC deep convection case study and a satellite-based assessment of deep convection over the TRACER domain” [20]

16:05 Jiwen Fan (PNNL) Modeling of aerosol and urban land effects in Houston [20]

16:25 Marcus van Lier Walqui (Columbia U.), Toshi Matsui (NASA GSFC), Eric Bruning (TTU) “Convective cell microphysics modeling” [20]

16:45 Eric Defer (CNRS) “A French Contribution to TRACER” [15]

17:00 Discussion

17:30 Meal Break

Tuesday PM, April 21

Host: Mike Jensen, **Moderator:** Scott Collis

18:30 John Sullivan (NASA GSFC) “Air Quality Studies during TRACER” [60]

19:30 Michael Jensen (BNL) “Identifying Needs and Opportunities”

Coordination among participating agencies – Discussion

Communication among sites

Additional Measurement Opportunities (Aircraft, Mobile Platforms, etc.)

Tethered Balloon System Siting Options

Student Participation

Others