ACCESS XVII

Seventeenth Atmospheric Chemistry Colloquium for Emerging Senior Scientists

July 27-30, 2023 BROOKHAVEN NATIONAL LABORATORY All Sessions are in Room Berkner B

Thursday, July 27

WELCOME RECEPTION (Springhill Suites, 2 Sawgrass Drive, Bellport, NY). 5:00-10:00 pm (by invitation only; not open to the public)

Friday, July 28

| Pick up at Springhill Suites for BNL | 7:30 am |
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| Registration and check-in at BNL | 8:00-8:30 am |

SESSION I: WELCOME AND INTRODUCTORY REMARKS8:30-9:00 am Ernie R. Lewis, ACCESS Chair, Brookhaven National Laboratory

SESSION II: REMARKS BY AGENCY REPRESENTATIVES......9:00-9:30 am

SESSION III: ACCESS PRESENTATIONS (field campaigns)9:30-10:30 am

Hosted by Jeff Stehr, U. S. Department of Energy (DOE)

Anne E. Barkley (U.S. Environmental Protection Agency): African Biomass is a Substantial Source of Phosphorus Deposition to the Amazon, Tropical Atlantic Ocean, and Southern Ocean

Olga Garmash (University of Washington): *Heatwave Reveals Potential for Enhanced Aerosol Formation in Boreal Forest*

Marina Nieto-Caballero (Colorado State University): Characterizing Bioaerosols and INPs in Arctic and Grassland Environments: Insights from the ARCSPIN and BACS Campaigns

SESSION IV: ACCESS PRESENTATIONS (laboratory investigations)10:45 am-12:25 pm Hosted by Sylvia Edgerton, National Science Foundation (NSF)

Charbel Harb (Scripps Institution of Oceanography): *Investigation of Sea Spray Aerosol Generation in the Scripps Ocean-Atmosphere Research Simulator*

Chris Jernigan (CIRES & NOAA): Atmospheric Fate of Hydroperoxymethyl Thioformatate under Pristine Marine Conditions

Alexandra M. Deal (Lawrence Berkeley National Laboratory): *The Structure of Organic Acids Including α-hydroxyacids and α-ketoacids at Air-Water Interfaces*

Christopher M. Kenseth (University of Washington): Particle-Phase Accretion Forms Dimer Esters in Pinene Secondary Organic Aerosol

Vaios Moschos (North Carolina A&T State University, University of North Carolina): *Investigating Brown Carbon Aerosol from Biomass Combustion in*

| Properties |
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| Lunch (Berkner Room A) |
| (by invitation only; not open to the public) |
| Group Photograph |
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| TOUR OF BROOKHAVEN NATIONAL LABORATORY |
| SESSION V: ACCESS PRESENTATIONS (modeling studies) |
| Closing remarks, Ernie Lewis |
| Pick up at Berkner for banquet |
| BANQUET (Jason's Vineyards) |
| Pick up, return to Springhill Suites |
| Saturday, July 29 Pick up at Springhill Suites Inn for BNL 7:30 am |
| SESSION VI: ACCESS PRESENTATIONS (laboratory investigations)8:00-10:00 am Hosted by Shiv Das, National Oceanic and Atmospheric Administration (NOAA) Mickey M. Rogers (Pacific Northwest National Laboratory): Algae From Ocean to Air: Fundamental Surfactant Binding, Thermodynamics, and Monitoring Reveal Surface Activity of Small-Scale Algal Bloom Exudates Mingyi Wang (California Institute of Technology): Upper Tropospheric Particle Formation from Anthropogenic Pollution |

Sub-Saharan Africa: Molecular-Level Composition and Light-Absorption

Stephanie R. Schneider (McMaster University): *The Oxidation of the Sea Surface Microlayer as a Source of Volatile Organic Compounds to the Marine*

Atmosphere