

Third International SPARTAN Meeting: Exploring and Developing Collaborations

April 19, 2018, UMBC Physics Building, 4th Floor

8:30 Coffee

Overview and Context

9:00 Overview & welcome (Randall Martin, Dalhousie U)

9:30 Connections of SPARTAN with global health (Michael Brauer, U British Columbia)

10:00 Historical perspective on health effects of PM_{2.5} and future challenges (Aaron Cohen, Health Effects Institute)

10:15 Break

Session Chair, Michael Brauer, U British Columbia

10:45 Overview & update of SPARTAN activities: maximizing information from a single filter (Paul Bissonnette, Dalhousie U)

11:00 Interpreting SPARTAN composition measurements with the GEOS-Chem model to understand sources affecting PM_{2.5} (Crystal Weagle, Dalhousie U)

11:15 Characteristics and performance of AirPhoton instrumentation (Vanderlei Martins, AirPhoton and UMBC)

11:45 lunch

Exploring and Developing Collaborations

Session Chair, Bryan Duncan, NASA GSFC

1:15 Vital Strategies: Opportunities to develop SPARTAN for public health (Sumi Mehta, Vital Strategies)

1:30 Organic carbon characterization and quantification with small volume nebulization and offline-HR-ToF-AMS (Rachel O'Brien, William and Mary)

1:45 MAIA and connections with SPARTAN (Olga Kalashnikova, NASA JPL)

2:00 AERONET activities and future plans (Dave Giles, NASA GSFC)

2:15 MPLNET activities and connections with SPARTAN (Judd Welton, NASA GSFC)

2:30 Aircraft campaigns and connections with SPARTAN (Qing Liang, NASA Langley)

2:45 Examples of AirPhoton instrumentation performance (Lorraine Remer, AirPhoton)

3:00 Break

Session Chair, Chris Hennigan, UMBC

3:30 Building collaborative, open-source community tools on top of OpenAQ, (Christa Hasenkopf, OpenAQ)

3:45 Near-real-time aerosol forecasting system and potential connections with SPARTAN (Arlindo Da Silva, NASA GSFC)

4:00 New Deep Blue aerosol products: VIIRS, MODIS C6.1, and AVHRR (Andrew Sayer, NASA GSFC)

4:15 State of the Dark-Target aerosol retrieval on multiple satellite sensors (Rob Levy and the Dark Target Aerosol Team, NASA GSFC)

4:30 The potential of mobile monitoring of PM_{2.5} and black carbon in large Brazilian cities to augment SPARTAN GEOS-Chem and remote sensing PM_{2.5} validation exercises (Mark Gibson, Dalhousie U)

4:45 Wrap up (Randall Martin and Michael Brauer)

Group Dinner