



**JCET**  
The Joint Center for  
Earth Systems Technology

**UMBC**  
AN HONORS UNIVERSITY IN MARYLAND

## UMBC Atmospheric Physics 2<sup>nd</sup> Earth Day Symposium

Date: 20th April 2018

Time: 9:00AM to 3:30PM

Location: Physics Building, Room 401, UMBC

### AGENDA

| Time           | EVENT            |                          |  |
|----------------|------------------|--------------------------|--|
| 8:50AM         | BREAKFAST SERVED |                          |  |
| 9:00AM         | OPENING REMARKS  | Chair Physics            |  |
| 9:05-10:00 AM  | <b>SESSION 1</b> | <b>NAME</b>              | <b>TITLE</b>   |
|                |                  | Dr. Belay Demoz          | TBD  |
|                |                  | Dr. Pius Lee (NOAA)      | The Challenge of Air Quality Forecasting especially for place downwind of larger polluters                                       |
|                |                  | Dr. Eugenia Kalnay (UMD) | Population and Climate Change: HANDY Model   |
|                |                  | Dr. Nathan Kurtz (NASA)  | Remote Sensing of the Polar Regions with Operation IceBridge and ICESat-2  |
| 10:05-10:20 AM | COFFEE BREAK     |                          |  |
| 10:20-11:05 AM | <b>SESSION 2</b> |                          |  |
|                |                  | Dr. Zhibo Zhang (UMBC)   | The Aerosol Cloud Radiation Observation and Simulation (ACROS) Group at UMBC   |
|                |                  | Dr. Pengwang Zhai (UMBC) | Phytoplankton photocompensation: radiative transfer modeling and applications  |
|                |                  | Dr. Reed Espinosa (NASA) | Aerosol properties retrieved from in situ measurements of light scattering and absorption made over the contiguous United States |
| 11:05-11:10 AM | SHORT            |                          |  |

|                       |                  |                                    |   |
|-----------------------|------------------|------------------------------------|---|
|                       | <b>BREAK</b>     |                                    |   |
| <b>11:10-11:55 AM</b> | <b>SESSION 3</b> |                                    |   |
|                       |                  | Dr. Barry A. Klinger (GMU)         | Ocean Circulation, Heat Uptake and Climate  |
|                       |                  | Dr. John Sullivan (NASA)           | Overview of the 2017 OWLETS: Summary of Observations and Initial Results                    |
|                       |                  | Dr. Christopher P. Loughner (NOAA) | Impact of historical air pollution emissions reductions on human health during extreme heat |
| <b>11:55-12:30 PM</b> | <b>LUNCH</b>     |                                    |   |

|                     |  |                              |  |
|---------------------|--|------------------------------|--|
| <b>12:30-1:30PM</b> | <b>SESSION 4</b>                           |                              |  |
|                     |  | Dr. Omar Torres (NASA)       | Satellite-based Atmospheric Remote Sensing using near UV observations  |
|                     |  | Dr. Peter Colarco (NASA)     | Impact of simulated dust particle size on direct radiative forcing and dust lifetime in the NASA Goddard Earth Observing System (GEOS) model |
|                     |  | Dr. Amir Ibrahim (NASA)      | Atmospheric correction for hyperspectral ocean color sensors   |
|                     |  | Dr. Christopher Barnet (STC) | What can weather satellites tell us about climate?   |
| <b>1:30-2:50 PM</b> | <b>POSTER SESSION</b>                      |                              |  |
| <b>2:50-3:30PM</b>  | <b>CLOSING REMARKS</b>                     |                              |  |
| <b>3:00-3:30PM</b>  | <b>LAB TOURS, ENDING WITH SONDE LAUNCH</b> |                              |  |

**NB: Breakfast and Lunch will be served for EDS 2018 attendees**