



UMBC Atmospheric Physics First Annual Earth Day Symposium

Date: 21st April 2017
 Time: 9:00 am to 3:30 pm
 Location: Physics Room 401

AGENDA

TIME	EVENT		
8:50 AM	<i>BREAKFAST SERVED</i>		
9:00 AM	<i>OPENING REMARKS</i>		
9:15 -10:30 AM	<i>SESSION 1</i>	NAME	TITLE
		Dr. Belay Demoz	The GCOS Reference Upper Air Network: concept, organization, accomplishment and its future.
		Dr. Vanderlei Martins	Focus: Advancements in polarized remote sensing and in-situ measurements of clouds and aerosol
		Dr. Sergio DeSouza-Machado	Hyperspectral Infrared Sounding - from weather to climate
		Dr. Amita Mehta	Overview of Global Precipitation Measurement (GPM) Mission Data and Applications
		Dr. Meng Gao	How cephalopods use optics to camouflage?
10:30-10:45 AM (Short Break)			
10:45-12:00 PM	<i>SESSION 2</i>		
		Dr. Pengwang Zhai	Radiative transfer theory and its applications in remote sensing of the Earth system
		Dr. Zhibo Zhang	We are ACROS: Aerosol-Cloud-Radiation Observation and Simulation group
		Dr. Tom Hanisco	Improving Methane Lifetime Estimates by Knowing OH Better: Remote Sensing of Methane's Primary Sink
		Dr. Adriana Lima	Evaluation of the dust distribution in the Middle East and North Africa using GEOS-5 model
		Dr. Andy Tangborn	Data Assimilation and Forecasting
12:00-12:50 PM	<i>LUNCH</i>		

12:50 – 2:50 PM	POSTER SESSION		
		Dr. Amita Mehta	Overview of Global Precipitation Measurement (GPM) Mission Data and Applications
		Dr. Leonid Yurganov	Satellite remote sensing of current atmospheric methane trends: Arctic and USA. Abstract: Atmospheric methane plays an important role in the current climatic change. Recent satellite results of CH ₄ remote sensing measurements in the Arctic and USA are presented and compared with NOAA global network data
		Chamara Rajapakshe	Using CATS to understand the relative vertical distribution of smoke aerosols and MBL clouds in SE Atlantic
		Dr. Frank Werner	Effects of cloud inhomogeneity on cloud property remote sensing
		Dan Miller	Using LES to understand the difference between si-spectral and polarimetric passive cloud remote sensing techniques
		Qianqian Song	A Study of dust direct radiative effects over the whole spectrum: Background and Preliminary results
		Dr. Hua Song	Evaluation of CAM simulations of MBL clouds using satellite data: Conventional sub-grid scheme vs. CLUBB
		Brent McBride	Preparing to Launch UMBC's First Full Feature Earth Sciences Satellite: The Hyper-Angular Rainbow Polarimeter (HARP)
		Reed Espinosa	Aerosol Retrievals from Imaging Nephelometer Scattering Measurements
		Marwa Al-Sayed	A novel method for the characterization of the reversibility of secondary organic aerosol formed through aqueous processes (aqSOA)
		Anin Puthukuddy	Microphysical properties of Volcanic ash
		Mike Battaglia Jr.	Effects of the Urban Heat Island on Aerosol pH
		Anthony Bratt	The Sensitivity of NIR Radiances Observed by OCO-2 with Respect to Radiative Transfer Properties of Aerosols
		Lipi Mukherjee	Mixing Single Scattering Properties in Vector Radiative Transfer for Deterministic and Stochastic Solutions
		Dr. Glenn Wolfe	Airborne Eddy Covariance Measurement of Greenhouse Gas Fluxes: A Bridge from Flux Tower to Landscape Scales
		Brian Carroll	Low-level jets and boundary layer event observations from the Plains Elevated Convection at Night (PECAN) campaign

		Dr. John Sullivan	New Insights on “Next Day” Ozone Increases in the Northeastern U.S. using Continuous Vertical Profiles of Ozone
2:50 – 3:00 PM	<i>CLOSING REMARKS</i>		
3:00 – 3:30 PM	<i>LAB TOURS, ENDING WITH SONDE LAUNCH</i>		