

We invite you to welcome the following invited speakers to the ARM Science Team Meeting who are giving plenary talks on Thursday morning. Please include them in your conversations, social gatherings, and white-time activities.

- **Volker Wulfmeyer, 8:00 am-8:45 am: “The Convective and Orographically Induced Precipitation Study (COPS), Germany: Initiation of Convection and the Microphysical Properties of Clouds in Orographic Terrain.”**



Dr. Wulfmeyer is Director of the Institute of Physics and Meteorology at the University of Hohenheim, Stuttgart. He received his Ph.D. from the University of Hamburg and completed his postdoc at the Max Planck Institute for Meteorology Hamburg, NCAR, and NOAA in Boulder, Colorado. He serves on the Scientific Advisory Committee of the German Meteorological Service and the Scientific Advisory Board of the Terrestrial Environmental Observatoria, TERENO, of the Helmholtz Association. He is chair of the Science Committee of the World Weather Research Program (WWRP) Research and Development Project, Convective and Orographically Induced Precipitation Study (COPS), as well as member of the WWRP Working Group on Mesoscale Weather Forecasting Research. Dr. Wulfmeyer is editor-in-chief of the *Meteorologische Zeitschrift*, the journal of the Meteorological Societies of Austria, Germany, and Switzerland. His research areas include the development and application of three-dimensional scanning water-vapor, temperature, wind, and aerosol active remote sensing systems; boundary layer turbulence and transport; mesoscale data assimilation; and quantitative precipitation forecasting.

- **Mark Miller, 8:45 am-9:30 am: “Radiative Atmospheric Divergence using AMF, GERB, and AMMA Stations (RADAGAST) Reprise: New Findings from West Africa.”**



Trained as a physicist, Dr. Miller became interested in the impact of clouds on the climate system and their role in climate change during his research as a graduate student in Meteorology at The Pennsylvania State University. His 15-year research effort is focused on improved understanding of the complex feedback loops that exist between aerosols, clouds, and the climate system and the accurate representation of these processes in Global Climate Models. Dr. Miller has participated in multiple field programs, the first in 1987, and was the principal investigator during the multi-agency Marine Stratus, Radiation, Aerosol, and Drizzle Experiment conducted in 2004 and the Cloud and Land Surface Interaction Campaign conducted in 2006. He has authored or co-authored 45 published papers, currently serves as the Site Scientist for the ARM Mobile Facility, and is a professor at Rutgers University.

- **Graham Feingold, 9:30 am-10:15 am: “Cloud, Radiation and Drizzle Studies from the 2005 Pt. Reyes, California, Deployment.”**



Dr. Feingold is a research scientist at NOAA's Earth System Research Laboratory in Boulder, Colorado. His interests lie in aerosol-cloud-precipitation interactions and implications for climate change. His focus is on process level studies using high resolution models and observations (aircraft and surface remote sensing) at the cloud scale (tens of meters to tens of kilometers). He received his Ph.D. in Geophysics and Planetary Sciences (summa cum laude) from the Tel Aviv University in 1989. His research interests include lidar and radar remote sensing of clouds and aerosol, modeling and remote sensing of aerosol-cloud interactions (“indirect effects”), “cloud burning” or the “semi-direct effect,” and cloud processing of aerosol through multiphase chemistry. He has authored or co-authored more than 80 peer-reviewed articles on these subjects. Feingold is an associate editor of the online journal Atmospheric Chemistry and Physics, a contributor to the Climate Change Science Program, chapter author of the International Aerosol-Precipitation Scientific Assessment Project, and a NOAA representative to EarthCare.

- **Robert Wood, 10:45 am-11:20 am: “Cloud, Aerosol and Precipitation in the Marine Boundary Layer: the AMF Azores Deployment 2009/2010.”**



Dr. Wood currently is assistant professor in the Department of Atmospheric Sciences at the University of Washington. His research interests are the microphysical and macrophysical structure of clouds, their variability, their interaction with aerosols, and their role in the climate system. He is principal investigator for the VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx), an international field program designed to test hypotheses regarding critical aspects of the coupled climate system of the southeast Pacific Ocean region. He also is principal investigator for the ARM Mobile Facility deployment “Cloud, Aerosol, and Precipitation in the Marine Boundary Layer” in the Azores in 2009/2010. Dr. Wood is a member of several national committees and teams including the American Meteorological Society Scientific and Technological Activities Commission (STAC) committee on Atmospheric Radiation, the VOCALS Science Working Group, and the CloudSat Science Team, and will chair the 2011 Gordon Conference on Radiation and Climate. Since January 2009, he has been an editor of the Journal of Climate.

- **Zhanqing Li, 11:20 am-11:55 am: “Aerosol and Climate under the Hazy Condition of China.”**



Dr. Li received his Ph.D. from McGill University in 1991, and his M.Sc. and B.Sc. from Nanjing Institute of Meteorology (China) in 1983 and 1985, respectively. After one year of postdoctoral research at the Meteorological Service of Canada, he was employed as a research scientist at the Canada Centre for Remote Sensing in 1992. He became a professor in the Department of Meteorology at the University of Maryland in 2001. Dr. Li has engaged in numerous meteorological and interdisciplinary studies concerning cloud, radiation budget, aerosol, pollution, terrestrial environment, forest fire, energy, and carbon budget. He has published 140 peer-reviewed articles in leading journals including Nature, Science, Journal of Geophysical Research, and Journal of Climate. His research has been reported in many public news media, and he appeared on the cover of Science as a representative of immigrant scientists working in the United States. Since 1996, he has been engaged in the DOE/ARM Program and is currently the lead scientist for the ARM Mobile Facility deployment in China.