

### **Dr. Ying-Hwa (Bill) Kuo**

Dr. Bill Kuo is a recognized leader in the field of mesoscale numerical weather modeling, Global Positioning System (GPS) atmospheric remote sensing, and mesoscale meteorological research. He led the development of the NCAR community mesoscale models, including the fourth generation (MM4) and fifth generation (MM5) of the Penn State/NCAR Mesoscale Model. He also played a key role in the development of the Weather Forecasting and Research (WRF) Model and its research applications.

As the Director of the Developmental Testbed Center (DTC), he interacts closely with research and operational numerical weather prediction (NWP) communities to facilitate the transition of new NWP advances into operations. As the Director of the UCAR COSMIC (Constellation Observing System for Meteorology, Ionosphere, and Climate) Program, he guided the development of the first GPS radio occultation satellite constellation, which provides critical observations to support atmospheric research and operational weather prediction. His COSMIC team is now developing the follow-on mission, COSMIC-2, which will be launched in September 2016.

Dr. Kuo also served as the U.S. Project Director for the Taiwan Area Mesoscale Experiment (TAMEX), the first mesoscale field experiment over East Asia with significant U.S. involvement. Since 1988, he has served as the NCAR advisor for more than 25 graduate students, and mentored more than 15 postdoctoral fellows. He has published over 180 journal papers, as well as numerous conference articles and reports. His scientific interests include hurricanes, extratropical cyclones, mesoscale convective systems, heavy rainfall prediction, data assimilation, and GPS atmospheric remote sensing and their research applications.