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NCAR Scientists Present Papers at AMS Conference in Denver This Week

Three NCAR scientists were invited to present professional papers at the Ninth Conference on Numerical Weather Prediction hosted by the American Meteorological Society (AMS) in Denver, October 14-18. Fifty-two more NCAR scientists who have authored or coauthored papers also presented their work.

William Holland, James McWilliams, and Kevin Trenberth of the Climate and Global Dynamics Division (CGD) were the invited three. Their papers ranged from "Meridional Overturning in the North Atlantic Ocean" to "The Statistical Dynamics of Coherent Vortices" to a "Diagnostic Analysis of the 1988 Drought over North America."

William Bonner, director of UCAR's Cooperative Program for Operational Meteorology, Education and Training, is the AMS president. Ying-Hwa Kuo, chair of the AMS program committee and a scientist with NCAR's Mesoscale and Microscale Meteorology (MMM) Division, presented several papers at the conference.

Twenty-one other authors or coauthors from CGD presented their papers along with 2 from the Atmospheric Chemistry Division, 7 from the Advanced Study Program, 2 from the High Altitude Observatory, and 15 from MMM. Two UCAR scientists also contributed their work to the conference.

Other papers presented by NCAR staff were the following:

- Precipitation Parameterization in Mesoscale Models: Convection
- Cumulus Parameterization: Rainwater and Downdrafts
- Adaptive Grid Technique: Severe Convection Storms
- Planetary Boundary Layer and Surface Parameterization
- Limited Area Models: Small-Scale Circulations, Prediction of Heavy Rain, and Shallow Water Model
- Numerical Methods: Semi-Lagrangian Approximations for Fluids and Conservation Strategies and Experiments with Monotonic Conservation Methods
- Initialization: Moisture Fields in the Tropics and Numerical Forecasting
- Application of Adjoint Models: Forecast Error Estimates and Sensitivity Analysis
- Assimilation of Radar and Satellite Observations
- Diabatic Effects and Dynamics
- Dynamic Extended-Range Prediction
- Predictability of Cyclones
- Prediction of Heavy Rainfall
- Global Models: Hydrology
- Interannual Variability
- Geophysical Turbulence
- Intraseasonal Variability
- Oceanic Circulation Dynamics
- Predictability
- Interannual and Interdecadal Variability
- Extratropical-Tropical Interactions
- North American Climate

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