

*Reception and Colloquium*

# *Distinguished Alumni Award*

**Prof. Steve Ackerman**

*CSU ATS Alumni M.S. 1979 and Ph.D. 1987  
Professor, University of Wisconsin-Madison*

**Monday, August 11, 2014  
in room ATS 101**

**Refreshments starting at 11:00 a.m. in the Weather Lab  
Presentation and Colloquium starting at 11:30 a.m. in ATS 101**

**Award presentation by Jeff Collett  
Colloquium by Steve Ackerman**

*Satellites and Clouds*

*For over 30 years observations from satellite platforms have been routinely used to locate and track clouds and infer their properties. In this presentation we will explore the methodologies and improvements in extracting cloud information from satellite observations. Including cloud detection, physical (such as cloud altitude boundaries) and the microphysical properties of clouds.*

*Recent satellite observed cloud data records have greatly improved our confidence in global cloud observations. Improved discrimination of cloud from various surface background using passive observations with broad spectral coverage, along with active sensors has resulted in a comprehensive view of the global cloud field. However, even with the improved remote sensing capabilities, there remain large uncertainties in various retrieved cloud properties. This talk will look at recent achievements in satellite measurements of clouds and explore methods of defining the uncertainty in retrieved cloud properties.*



**Colorado State University**  
DEPARTMENT OF ATMOSPHERIC SCIENCE