

AMS Short Course on Dual-Polarization Weather Radar: Fundamentals and Applications, 25 June, 2008, Denver CO **Class size is limited to 60.**

The AMS Short Course on Dual-Polarization Weather Radar, Principles and Applications will be held on 25 June 2008, preceding the 36th Conference on Broadcast Meteorology. Preliminary programs, registration, hotel, and general information will be posted on the AMS Web site: <http://www.ametsoc.org/MEET/fainst/200836broadcast.html>

Dual Polarization Weather radars have matured significantly in the last two decades and have become a key operational tool for the forecasters. The recent decision by the National Weather Service to upgrade the WSR-88 D radars to dual-polarization exemplifies the operational application of Dual-polarization radars. In addition many TV stations have upgraded to Dual-polarization systems. Thus it is becoming critically important to understand the basic principles of Dual-polarization radars and their applications.

The goal of the course is to provide sufficient background on the Principles and Applications of Dual-Polarized weather radars with introduction to advanced topics such as hydrometeor classification and rainfall estimation. The course is aimed at broadcasters and other interested users who desire to know the details of Dual-Polarization Weather Radars and their applications, as well as weather radar operations personnel and analysts. The course will be divided into two parts. The first will describe the fundamental physical principles of Dual-Polarization Weather radar. This segment will also introduce the recent advances such as the physical principles of the various applications. The second part will describe the applications, and methodologies with emphasis on new applications enabled only by Dual-Polarization weather radars. During the second part, a tentative live demonstration from an Research Weather Radar with Dual-polarization capability is planned. The course format consists of one day of lectures followed by two hours of hands on laboratory session.

The instructor for the course is Prof. V. Chandrasekar (Chandra), of Colorado State University. Prof. Chandra has over 25 years of experience with Dual-polarization weather radars and has been a pioneer in Dual-Polarization weather radar research. He is a fellow of the American Meteorological Society.

A luncheon will be provided during the short course. The participants can use their own lap top computers for course exercises during the conference. Those without laptops will be able to use their home or office computers for exercises after the conference.

For more information, please contact Prof. Chandra at Colorado State Univ., 1373 Campus Delivery, Ft. Collins, CO 80523 (tel: 970-491-7981; email: chandra@colostate.edu)