



CREW

CENTER FOR RESEARCH ON
ENVIRONMENT AND WATER

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Seminar Announcement:

Speaker: Jeff Walker, Univ. of Melbourne
Title: National Airborne Field Experiments
Date: Thursday, March 31, 2005
Time: 11:00am
Location: COLA Conference Room
4041 Powder Mill Road, Suite 302
Calverton, MD 20705-3106 USA

National Airborne Field Experiments

Jeff Walker, University of Melbourne, Australia

A series of two month-long airborne field experiments are planned for November 2005 and November 2006 in experimental catchments of south-eastern Australia (see www.civenv.unimelb.edu.au/~jwalker/data/nafe). These catchments are the 7,000km² Goulburn River catchment located near Newcastle in 2005, and the 650km² Kyeamba Creek catchment and 2,500km² study area at Yanco near Canberra in 2006. These catchments represent a range of landuse, land cover, soil and climatic conditions with extensive insitu monitoring of soil moisture profiles and supporting data (see www.civenv.unimelb.edu.au/~jwalker/data/oznet). Instruments to be carried by the small 2-seater experimental aircraft are a Polarimetric L-band Multibeam Radiometer (PLMR), thermal imager, tri-spectral scanner and lidar (see www.civenv.unimelb.edu.au/~jwalker/plmr). Spatial resolutions will range from 50m to 1km for the PLMR and 1m to 20m for all other instruments. While this series of experiments has a focus on soil moisture satellite validation and algorithm development, including multiangular retrieval and downscaling, it is open to collaboration from other related disciplines also needing similar data. Moreover, anyone who has an interest in using this data is invited to participate in the planning and execution of data collection activities. This seminar will present details of the catchments, ground and air instrumentation, and proposed field plan.

DIRECTIONS: Take Interstate 95 north toward Baltimore. Take the first exit (29B - Route 212 West) to Calverton. Turn left at the first traffic light (intersection of Powder Mill Road and Beltsville Drive) into Centrepark.

Once at Centrepark there are three buildings (besides the movie theater). Building 4041, housing COLA & CREW, is the office tower on the right. The Sheraton College Park hotel is to the left of the twin office towers.

