

You are invited to a briefing:

National Security and the Atmosphere: Current Examples of Research Applications

February 11, 2002

**12:00 Noon, 2325 Rayburn House Office Building
(Lunch will be served)**

OR

**3:30 p.m., SD-538 Dirksen Senate Office Building
(Refreshments will be served)**

Answering the call of John Marburger, director of the Office of Science and Technology Policy, to support the war on terrorism, the atmospheric sciences community is working closely with the Department of Defense to quickly transfer research results into practical and lifesaving uses in the field.

The purpose of this briefing is to highlight some of the atmospheric science research and development programs currently being utilized by the military and civilian federal agencies. These programs reflect the successful partnerships among agencies, universities and laboratories. This briefing will demonstrate a few examples of the cutting-edge science and engineering work of the atmospheric science community which enhances national defense and homeland security, including:

- The use of weather and dispersion models to forecast the spread of biological and chemical agents in international conflicts, including a demonstration of the simulation of troop exposure to a nerve gas emission during the Gulf War;
- The use of weather and dispersion models for homeland defense, including a simulation of a toxin release near the Beltway;
- The use of improved weather data to aid in artillery targeting and munitions selection;
- The operational use of a globally relocatable weather forecast model, using a laptop computer, to provide theater/local forecasts anywhere and at any time in the world;
- The development of a Four Dimensional Weather System to address the military's need for improved meteorological capabilities at Army test ranges.

Briefing Speakers:

- Walter Bach, U.S. Army Research Office
- Bruce Hicks, Air Resources Lab, NOAA
- Scott Swerdlin, National Center for Atmospheric Research
- Tom Warner, National Center for Atmospheric Research

**Please RSVP by Wednesday, February 6
(303) 497-2102 or gloriak@ucar.edu**

This event is sponsored by Senator Wayne Allard and the House Science Committee and cosponsored by the University Corporation for Atmospheric Research (UCAR), a consortium of 66 North American research universities