



Atmospheric Science Program

Implementation Team

March 4, 2004

I am pleased to announce that Jeffrey S. Gaffney, Steven J. Ghan, and Peter H. Daum have been selected to serve on the Atmospheric Science Program Implementation Team and Science Steering Committee.

Dr. Gaffney is a Senior Chemist at Argonne National Laboratory in Environmental Research. He has an outstanding record of scientific leadership in the area of the aerosol atmospheric chemistry, aerosol characterization, and instrumentation development. Dr. Gaffney has been involved with development of practical analytical methods for aerosol measurement particularly carbonaceous aerosols and aerosol precursor gases. One of the first researchers to note the importance of biogenic sources in atmospheric chemistry, he applied carbon isotopic signatures to determine carbonaceous aerosol sources in the 1980s. Dr. Gaffney has served as principal investigator of a project in the DOE Atmospheric Chemistry Program and as Lead Scientist of that programmatic aspect of the ASP, developing methods for rapid gas phase measurements of organic oxidants, aerosol precursors, and radiochemical methods for estimating mean residence times of fine aerosols. Dr. Gaffney has also been actively involved in many of the past ASP field studies in a number of U.S. urban centers, as well as Mexico City.

Dr. Ghan is a staff scientist at Pacific Northwest National Laboratory, where since 1991 he has led a team developing a physically-based method for estimating direct and indirect effects of aerosols in a global climate model. As principal investigator on projects funded by both the DOE Atmospheric Radiation Measurement Program and the NASA Interdisciplinary Science Program, he showed that competition between all important aerosol components must be represented in any estimate of indirect effects, and developed a physically-based method to treat that competition. This approach is now used in six different global climate models. His team

has made extensive use of surface, in situ, and satellite measurements to evaluate the treatment of a variety of aerosol, cloud, and radiative processes in their global aerosol model.

Dr. Daum is a senior scientist at Brookhaven National Laboratory and has over 20 years experience in leading, conducting, and interpreting aircraft measurements of atmospheric chemistry and cloud chemistry and microphysics. Since 1995, he has led studies of photochemical air pollution in Nashville (1995), New York City (1996), Phoenix (1998), Philadelphia (1999), Texas (2000), and the Northeast US (2002). Results from these studies have had a direct impact on the strategies that are being proposed and implemented to control the nation's air quality problems. He has been a principal investigator in the DOE Atmospheric Chemistry Program since its inception, been supported by the DOE ARM Program since its inception, and was a principal investigator in the DOE UAV project. In addition to his work in atmospheric chemistry, Dr. Daum has made significant contributions to the understanding and parameterization of the first and second indirect aerosol effects through his work in ARM.

The ASP Implementation Team will include the DOE Program Director and the ASP Chief Scientist, and will focus on implementation of the program, measures of performance, and managing deliverables.

Members of the Implementation Team will also serve on the Science Steering Committee. This committee will be representative of the Science Team as a whole and will include scientists from universities, the private sector, other federal agencies, and DOE laboratories. The Science Steering Committee will focus on strategic planning, long-term and short-term (annual) goals, and interfacing with other climate change science programs. Additional members of the Science Steering Committee (SSC) will be named from the new ASP Science Team, once the peer review of science proposals has been completed this summer.

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