



Atmospheric Science Program

NIGEC RFP Features Aerosol Research

June 16, 2004

The DOE-funded National Institute of Global Environmental Change (NIGEC) has just published an RFP for FY 2005-2006 and it includes a topic relating to the DOE Atmospheric Science Program. We urge any university scientists interested in aerosol radiative forcing of climate to prepare and submit proposals to NIGEC, even if you have also submitted a proposal to ASP. The NIGEC RFP can be found at <http://nigec.ucdavis.edu/proposals/index.htm#rfp>

Please note that letters of intent are due by July 16 and proposals are due to NIGEC by August 27. Following is an excerpt from the NIGEC RFP:

2.4 Effects of Sulfur-based and/or Carbon-based Aerosols on Earth's Radiation Balance: Cross Regional Research

Beginning this year, NIGEC will support university scientists to study effects of sulfur-based and/or carbonbased aerosols on earth's radiation balance. Effects of aerosols on climatic change is an area of considerable uncertainty that has quantitatively important implications for predicting future climatic change. Research on this topic supported by NIGEC will have application to improving the treatment of aerosols in climate models, including both the direct effect of aerosols on the radiation balance due to scattering and absorption of radiation by aerosols in otherwise clear (i.e., cloud-free) skies as well as the indirect effects of aerosols on the amount and macrophysical and microphysical properties of clouds.

This year NIGEC solicits proposals for research in two areas associated with effects of aerosols on radiative forcing of climate

1. Focused laboratory studies to characterize properties of aerosols directly relevant to improving climate models (i.e., aerosol-radiation interactions and effects of aerosols on cloud microphysical properties), and

2. Modeling studies directly related to improving the treatment of direct and/or indirect effects of aerosols on earth's radiation balance in climate models.

It is expected that seven awards will be made this year, with an average project budget of \$100,000/year. Letters of Intent and Proposals should be submitted to the Regional Center representing the state within which the Principal Investigator's university resides. The Letters of Intent and Proposals will be evaluated by a single NIGEC-wide panel.

peter.lunn@science.doe.gov

Peter Lunn
Program Director for Atmospheric Science
Climate Change Research Division
U.S. Department of Energy, SC-74
1000 Independence Avenue SW
Washington DC 20585-0002

Phone 301.903.4819 Fax 301.903.8519