8 May 2006

Honorable Frank Wolf, Chairman
Honorable Alan Mollohan, Ranking Minority Member
Subcommittee on Science, the Departments of State, Justice, and Commerce, and Related Agencies
Committee on Appropriations
U.S. House of Representatives
Washington, D.C. 20515

Dear Mr. Chairman and Mr. Mollohan:

As Member Representatives of the 66 U.S. research universities that belong to the University Corporation for Atmospheric Research (UCAR), we write to support the President’s Request for the FY 2007 budget of the National Science Foundation. UCAR manages and operates the National Center for Atmospheric Research (NCAR) and additional programs that support and extend the country’s scientific research and education capabilities. UCAR member universities represent the vast majority of North American higher education institutions offering advanced degree programs in the atmospheric and related sciences.

For decades, this country has led the world in scientific achievement, technological development, and science and engineering workforce preparedness. In recent years, that leadership position has been threatened as other developed countries have invested heavily in R&D and globalization has introduced the pressures of increased competition. As stated in the National Academies report, Rising Above the Gathering Storm, “We fear the abruptness with which a lead in science and technology can be lost—and the difficulty of recovering a lead once lost, if indeed it can be regained at all.”

We therefore have great appreciation for the Administration’s American Competitiveness Initiative (ACI), an effort that holds the promise of enhanced R&D, improved math and science education, and stimulation of the economic and national security driver of technological innovation. We believe that the ACI investment in the physical sciences, will pay great dividends for this country if it is sustained as planned over the next ten years.

The National Science Foundation (NSF) plays a unique role among all federal agencies. In achieving its goal to develop new knowledge to meet societal needs and improve quality of life, NSF strengthens the ability of the country to create new ideas; develop new technologies; create a diverse, knowledgeable workforce; and set new standards that challenge any boundaries of invention and
intellect. These are all key components of our capacity to compete globally in the 21st Century and are fundamental drivers of wealth-producing growth and job creation. The NSF budget request states that the ACI investment in NSF – a commitment to double the NSF research budget over 10 years – is being made “in order to sustain a robust, competitive, and productive America.” The UCAR community takes great pride in this national priority and supports to the fullest extent possible the ACI focus on NSF.

*We urge the Committee to support the President’s overall request of $6.02 billion for the National Science Foundation and, within NSF, the request of $4.66 billion for Research and Related Activities (R&RA), the heart of NSF’s scientific enterprise. In addition, we urge the Committee to support the Administration’s goal of doubling the research budget of NSF over the course of a decade, finally realizing the promise of the National Science Foundation Authorization Act of 2002.*

**Geosciences Directorate (GEO).** Within R&RA, GEO is the principal source of federal funding for university-based basic research in the geosciences, providing about 68% of the total federal support in these areas. The FY07 increase for GEO includes aggressive investment in cyberinfrastructure, without which discoveries in the geosciences simply will not be able to advance at a competitive rate; and additional investment in the interagency Climate Change Science Program in activities focused on understanding past climate variability, the advancement of knowledge about the carbon and nitrogen cycles, and the continued development of computational models of Earth system processes.

*We urge the Committee to support the President’s request of $744.85 million for the Geosciences Directorate and, within GEO, to provide the President’s request of $226.85 million for the Atmospheric Sciences Division which provides resources for the atmospheric sciences community that are critical to the physical safety of our citizens, our economic health, and global issues of national security relevance such as severe weather, climate change, the security of our communications infrastructure, and the environmental health of the planet.*

**Office of Cyberinfrastructure.** Given the requirements of modern research, leading-edge progress that results in societal benefits cannot be realized without the acquisition, development and operation of state-of-the-art cyberinfrastructure services including ever-improving supercomputers, high-capacity mass-storage systems, and an ever-expanding suite of software tools. NSF promises to accomplish much in this area with the creation of the Office of Cyberinfrastructure. *We urge the Committee to support the President’s FY07 request of $182.42 million for the Office of Cyberinfrastructure which includes $50.0 million for the all-important achievement of petascale performance for application to important science and engineering problems.*

**Education and Human Resources (EHR) Directorate.** Key to the success of the Administration’s ACI efforts is the improvement of math and science education in this country. It is therefore disappointing to see the EHR funding request for FY07 decline in certain areas and not keep pace with inflation overall. We believe that the strengthening of science education, so critical to the nation’s future and essential in training tomorrow’s workforce, must be intimately connected with the best scientific practices and results being produced via the NSF scientific directorates. *We urge the Committee to provide as healthy an increase as possible for the Education and Human Resources Directorate so that it may play its rightful, critical role in achieving ACI goals.*
We want to thank the Committee for your stewardship of the nation's scientific enterprise and your understanding that the future strength of the nation depends on the investments we make in science and technology today.

Sincerely,

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