

Building, 1000 Independence Avenue, SW., Washington, DC 20585.

The Board specifically reserves its right to further schedule and otherwise regulate the course of the meetings and hearings, to recess, reconvene, postpone, or adjourn the meetings and hearings, conduct further reviews, and otherwise exercise its power under the Atomic Energy Act of 1954, as amended.

Dated: November 7, 2003.

John T. Conway,
Chairman.

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DEPARTMENT OF ENERGY

Office of Science Financial Assistance Program Notice DE-FG01-04ER04-05; Early Career Principal Investigator Program in Applied Mathematics, Collaboratory Research, Computer Science, and High-Performance Networks

AGENCY: Department of Energy.

ACTION: Notice inviting grant applications.

SUMMARY: The Office of Advanced Scientific Computing Research (ASCR) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications for grant applications in support of its Early Career Principal Investigator Program. The purpose of this program is to support research in applied mathematics, collaboratory research, computer science, and networks performed by exceptionally talented scientists and engineers early in their careers. The full text of Program Notice DE-FG01-04ER04-05, is available via the Internet using the following Web site address: <http://www.science.doe.gov/production/grants/grants.html>.

DATES: To permit timely consideration for award in Fiscal Year 2004, completed applications in response to this notice must be received by February 10, 2004, to be accepted for merit review and funding in Fiscal Year 2004.

ADDRESSES: Formal applications referencing Program Notice DE-FG01-04ER04-05 must be sent electronically by an authorized institutional business official through DOE's Industry Interactive Procurement System (IIPS) at: <http://e-center.doe.gov/>. IIPS provides for the posting of solicitations and receipt of applications in a paperless environment via the Internet. In order to submit applications through IIPS, your business official will need to

register at the IIPS website. IIPS offers the option of using multiple files, please limit submissions to one volume and one file if possible, with a maximum of no more than four PDF files. The Office of Science will include attachments as part of this notice that provide the appropriate forms in PDF fillable format that are to be submitted through IIPS. Color images should be submitted in IIPS as a separate file in PDF format and identified as such. These images should be kept to a minimum due to the limitations of reproducing them. They should be numbered and referred to in the body of the technical scientific grant application as Color image 1, Color image 2, etc. Questions regarding the operation of IIPS may be E-mailed to the IIPS Help Desk at:

HelpDesk@pr.doe.gov, or you may call the help desk at: (800) 683-0751. Further information on the use of IIPS by the Office of Science is available at: <http://www.sc.doe.gov/production/grants/grants.html>.

If you are unable to submit an application through IIPS, please contact the Grants and Contracts Division, Office of Science at: (301) 903-5212 or (301) 903-3604, in order to gain assistance for submission through IIPS or to receive special approval and instructions on how to submit printed applications.

FOR FURTHER INFORMATION, CONTACT: Dr. Samuel J. Barish, Office of Advanced Scientific Computing Research, SC-31/ Germantown Building, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585-1290, Telephone: (301) 903-5800, E-mail: sam.barish@science.doe.gov.

SUPPLEMENTARY INFORMATION:

Program Mission

The mission of the Advanced Scientific Computing Research Program is to deliver forefront computational and networking capabilities to scientists nationwide that enable them to extend the frontiers of science, answering critical questions that range from the function of living cells to the power of fusion energy.

In order to accomplish this mission, this program fosters and supports fundamental research in advanced computing research (applied mathematics, computer science and networking), and operates supercomputer, networking, and related facilities to enable the analysis, modeling, simulation, and prediction of complex phenomena important to DOE.

The following long-term goals will be indicators of ASCR's success in meeting its mission:

- Develop mathematics, algorithms, and software that enable effective models of complex systems, including highly nonlinear or uncertain phenomena, or processes that interact on vastly different scales or contain both discrete and continuous elements.

- Develop, through the Genomes to Life partnership with the DOE Office of Biological and Environmental Research, the computational science capability to model a complete microbe and a simple microbial community.

The primary mission of the ASCR program is carried out by the Mathematical, Information, and Computational Sciences (MICS) Division. This Division is responsible for discovering, developing, and deploying advanced scientific computing and communications tools and operating the high performance computing and network facilities that researchers need to analyze, model, simulate, and—most importantly—predict the behavior of complex natural and engineered systems of importance to SC and to DOE.

The computing, networking middleware required to meet SC needs exceed the state-of-the-art by a wide margin. Furthermore, the algorithms, the software tools, the software libraries, and the distributed software environments needed to accelerate scientific discovery through modeling and simulation are beyond the realm of commercial interest. To establish and maintain DOE's modeling and simulation leadership in scientific areas that are important to its mission, the MICS program employs a broad, but integrated, research strategy. The basic research portfolio in applied mathematics and computer science provides the foundation for enabling research activities, which includes efforts to advance high-performance networking, to develop software tools, software libraries, and software environments. Results from enabling research supported by the MICS program are used by computational scientists supported by other SC and other DOE programs.

Further descriptions of the base research portion of the MICS portfolio, which is the scope of this Notice, are provided below:

Applied Mathematical Sciences Research

The objective of the applied mathematics component of the MICS research portfolio is to support research on the underlying mathematical understanding as well as the numerical algorithms needed to enable effective description and prediction of physical,