

# Update on Committee of Visitors for Computer Science

Christine Chalk

Advanced Scientific Computing Advisory Committee

Designated Federal Official



**Department of Energy**  
Office of Science  
Washington, DC 20585

October 18, 2011

**Office of the Director**

Dr. Roscoe Giles, ASCAC Chair  
Department of Electrical and Computer  
Engineering  
Boston University  
8 St. Mary's Street  
Boston, MA 02215

Dear Dr. Giles:

Thank you for the excellent Committee of Visitors (COV) review of the Next Generation Networking for Science program. The Office of Advanced Scientific Computing Research (ASCR) will respond to the recommendations of the COV to improve the management of this important program. The full program response and action plan will be posted on the ASCAC website (<http://science.energy.gov/ascr/ascac/reports/>).

To help the research communities utilize the capabilities of current and future supercomputers, ASCR also supports a basic research program in Computer Science which ASCAC reviewed in 2008. To ensure the integrity of this research program and to ensure that it is meeting the challenges of exascale computing, I am asking the Advanced Scientific Computing Advisory Committee (ASCAC) to assemble a Committee of Visitors (COV) to review the management processes for the Computer Science elements of the ASCR program. A report will be expected at the August 2012 ASCAC meeting.

The COV should provide an assessment of the processes used to solicit, review, recommend, and document proposal actions and monitor active projects and programs. The Committee should assess the operations of the Computer Science programs during the fiscal years 2009, 2010, and 2011. The panel may examine any files from this period for both DOE laboratory projects and university projects. The Committee will be provided with background material on the program prior to the meeting.

I would like the Committee to consider and provide evaluation of the following two major program elements:

1. For both the DOE laboratory projects and the university projects, assess the efficacy and quality of the processes used to:
  - (a) solicit, review, recommend, and document proposal actions, and
  - (b) monitor active projects and programs.



# COV Charge

- The COV should provide an assessment of the processes used to solicit, review, recommend and document proposal actions and monitor active projects and programs. The Committee should assess the operations of the Computer Science program during the fiscal years 2009, 2010, and 2011. ...
- ...assess the efficacy and quality of the processes used to
  - Solicit, review recommend, and document proposal actions, and
  - Monitor active projects and programs.
- Within the boundaries defined by DOE missions and available funding, comment on how the award process has impacted:
  - The breadth and depth of portfolio elements ,
  - The degree to which the program is addressing the challenges of multi-core hybrid computing and peta-to-exascale scientific data management, and
  - The national and international standing of the program with regard to other computer science research programs that are also focused on the demands of high performance scientific computing and analysis of petascale datasets.

# CS Committee of Visitors

- Members
  - Tony Hey, Microsoft (Chair)
  - Susan Graham, ASCAC
  - Michel Cosnard, Chairman and CEO - INRIA Labs (FR)
  - Satoshi Matsuoka, Professor - Tokyo Institute of Technology (JPN)
  - Sylvia J Spengler, National Science Foundation
  - Anne Trefethen, Director - Oxford e-Research Centre (UK)
  - David Walker, Professor - Cardiff University (UK)

# CS Committee of Visitors

- Schedule
  - Virtual information exchange Spring 2012
  - On-site review in Germantown, MD – July 10-11
  - Report findings – August ASCAC Meeting
  - Final report – November ASCAC Meeting