

U.S. Department of Energy



Office of Science

Advanced Scientific Computing Research Program

Dr. Orbach's Charges to ASCAC Committee -- Discussion --

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Joint ASCAC-BERAC Panel Charge

Advanced Scientific Computing Research Program

- Convene a Joint-panel with the Biological and Environmental Research Advisory Committee (BERAC) to investigate barriers or bottlenecks to achieving successful outcomes of complementary investments specifically in climate modeling by ASCR and BER. The Joint-panel should
 - Identify the key computational and information technology obstacles to advancing computational science and improving climate change projections using state-of-art the coupled climate models.
 - Examine the computational, software, data management, networking and collaboration technology requirements of BER's Climate Change Research Program (CCRP).
 - Consider the climate community's needs with respect to computational, storage and networking resources provided by ASCR Leadership Computing facilities, NERSC, ESnet and SciDAC. Also consider collaboration tools, efficient access to observation and climate data archives and long term support of software.
 - Examine how progress on the climate and Earth systems modeling component of CCRP could be accelerated through targeted investments in applied mathematics, computer science and computational climate science.
- Due Dates
 - Full Report: **November 2007 ASCAC meeting**



Strategic Priorities Charge

Advanced Scientific Computing Research Program

- Assess the strategic priorities of ASCR focusing on
 - the balance between “core” research efforts and high performance computing facilities and
 - the balance between more immediate research needs of current scientific applications and the long-term investments necessary to utilize the high performance systems of the future.
- Due Dates
 - Full Report: **February, 2008 ASCAC meeting**