

**AGENDA**  
**ADVANCED SCIENTIFIC COMPUTING ADVISORY COMMITTEE**  
**Tuesday, August 11, 2009**  
**American Geophysical Union - 2000 Florida Avenue, NW, Washington, DC**

**8:00 AM**  
**9:00 AM** **PUBLIC REGISTRATION**

**8:30 AM** **CLOSED ASCAC MEETING – SWEARING IN OF NEW MEMBERS**  
**9:00 AM** DOE Human Resources

**9:00 AM** **OPENING REMARKS FROM THE COMMITTEE CHAIR**  
**9:05 AM** Roscoe Giles, ASCAC

**9:05 AM** **OFFICE SCIENCE UPDATE**  
**10:00 AM** William Brinkman, Director of the Office of Science

**10:00 AM**  
**10:15 AM** **BREAK**

**10:15 AM** **ASCR UPDATE**  
**11:00 AM** Michael Strayer, ASCR

**11:00 AM** **DEPARTMENT OF ENERGY SCIENCE**  
**11:45 AM** Steven Koonin, Under Secretary for Science

**11:45 PM**  
**1:00 PM** **COMMITTEE LUNCH**

**1:00 PM** **HIGH PERFORMANCE COMPUTING FOR RENEWABLE ENERGY**  
**1:45 PM** Steve Hammond, National Renewable Energy Laboratory

**1:45 PM** **DISCUSSION OF THE NATIONAL RESEARCH COUNCIL’S REPORT ON THE  
POTENTIAL IMPACT OF HIGH-END CAPABILITY COMPUTING ON FOUR  
2:30 PM** **ILLUSTRATIVE FIELDS OF SCIENCE AND ENGINEERING**  
Phil Colella, Lawrence Berkeley National Laboratory

**2:30 PM**  
**2:45 PM** **BREAK**

**2:45 PM** **EMERGING STANDARDS AND TOOLS RELATED DEVELOPMENT INCLUDING  
3:45 PM** **COMPILER INFRASTRUCTURE AND OPTIMIZATION**  
Roch Archambault, IBM Toronto Lab

**3:30 PM** **ARRA UPDATE – MAGELLAN (CLOUD COMPUTING FOR SCIENCE), LEADERSHIP  
4:00 PM** **COMPUTING UPGRADE, AND ADVANCED COMPUTER ARCHITECTURES**  
Dan Hitchcock, ASCR

**4:00 PM** **ARRA UPDATE – ADVANCED NETWORKING INITIATIVE, SCIDAC-E**  
**4:45 PM** Vince Dattoria and Walt Polansky, ASCR

**4:45 PM**  
**5:00 PM** **PUBLIC COMMENT**

**5:00 PM** **ADJOURN FOR THE DAY**

**DINNER SPEAKER – SOMMER GENTRY, U.S. NAVAL ACADEMY**

**AGENDA**  
**ADVANCED SCIENTIFIC COMPUTING ADVISORY COMMITTEE**  
**Wednesday, August 12, 2008**  
**American Geophysical Union - 2000 Florida Avenue, NW, Washington, DC**

**8:30 AM UPDATE FROM THE ASCAC COMMITTEE OF VISITORS**

**9:15 AM** Dona Crawford, Lawrence Livermore National Laboratory

**9:15 AM HIGH PERFORMANCE COMPUTING AT THE NATIONAL SCIENCE FOUNDATION**

**10:00 AM** Ed Seidel, National Science Foundation

**10:00 AM BREAK**

**10:15 AM**

**10:15 AM REPORT ON “CHALLENGES IN CLIMATE CHANGE SCIENCE AND THE ROLE OF COMPUTING AT THE EXTREME SCALE”**

**11:00 AM** Warren Washington, National Center for Atmospheric Research

**11:00 AM PETASCALE SCIENCE**

**11:45 AM** Doug Kothe, Oak Ridge National Laboratory

**11:45 AM PUBLIC COMMENT**

**12:00 PM**

**12:00 PM ADJOURN MEETING**