



**2008 High Performance Computer Science Symposium  
Grand Hyatt Denver**

**Wednesday, April 2, 2008**

**1:00 pm Symposium Welcome, Grand Ballroom**

Speaker: Bill Feiereisen, HPCSW Chair

**1:15 pm - 2:00 pm Plenary, Grand Ballroom**

Outbriefing of the Department of Energy Office of Science ASCR PI meeting

Speaker: Fred Johnson, Department of Energy Office of Science,  
Advanced Scientific Computing Research

**2:00 pm - 3:30 pm Plenary, Grand Ballroom**

Programming Models for Multi-Core Architectures

Organizer: John Mellor-Crummey, Rice University

Speakers: Guang Gao, University of Delaware  
Mary Hall, University of Southern California  
Kathy Yelick, University of California, Berkeley

**3:30 pm - 4:00 pm Break, Grand Ballroom Foyer**

**4:00 pm - 5:30 pm Plenary, Grand Ballroom**

Scalable computing: The Architecture-Algorithms Interface

Organizers: Bill Gropp, University of Illinois at Urbana-Champaign; Scott Collis, Sandia National Laboratory

Speakers: Robert Lucas, University of Southern California  
Brad Chamberlain, Cray  
Mike Heroux, Sandia National Laboratory  
Tim Mattson, Intel Corporation

**6:00 pm - 8:00 pm Poster Reception, Mt. Sopris Ballroom, Lobby Level**

**Thursday, April 3, 2008**

**7:30 am - 8:45 am Continental Breakfast, Grand Ballroom Foyer**

**8:45 am - 10:00 am Keynote, Grand Ballroom**

The computer science changes coming to scientific computing —  
It's much more than simulation!

Speaker: Tony Hey, Corporate Vice President of External Research,  
Microsoft Corporation

Thursday, April 3, 2008 (continued)

**10:00 am - 10:30 am            Break, Grand Ballroom Foyer**

**10:30 am - 12:00 pm            Plenary, Grand Ballroom**  
Programming Models for Heterogeneous Architectures  
Organizer: Pat McCormick, Los Alamos National Laboratory  
Speakers:     Jeff Vetter, Oak Ridge National Laboratory  
                 Michael Linderman, Stanford University  
                 Doug O'Flaherty, AMD  
                 Paul Henning, Los Alamos National Laboratory

**12:00 pm - 1:30 pm   Lunch (on your own)**

**1:30 pm - 5:30 pm   Symposium Workshops**

- **LinuxBIOS Summit** **Mt. Yale, Third Floor**  
(Part 1 of 5, to be continued Friday morning)  
Ron Minnich, Sandia National Laboratory
- **High Availability and Performance Computing** **Grand Ballroom, Second Floor**  
(Part 1 of 2, to be continued Friday morning)  
Chokchai (Box) Leangsuksun, Louisiana Tech University  
Stephen L. Scott, Oak Ridge National Laboratory
- **Automatic Tuning of Libraries and Applications** **Mt. Princeton, Third Floor**  
(Part 1 of 2, to be continued Friday morning)  
Mary Hall, University of Southern California  
Kathy Yelick, University of California, Berkeley
- **Scalable Tools for Scientific Simulation** **Mt. Wilson, Third Floor**  
Erik Boman, Sandia National Laboratory  
Ross Bartlett, Sandia National Laboratory  
Mike Heroux, Sandia National Laboratory
- **Eclipse Parallel Tools Platform (Tutorial)** **Mt. Oxford, Third Floor**  
Greg Watson, IBM Research Center  
Beth Tibbitts, IBM Research Center
- **Towards a Community Infrastructure With and Around Open|SpeedShop** **Mt. Harvard, Third Floor**  
Martin Schulz, Lawrence Livermore National Laboratory  
Jim Galarowicz, Krell Institute  
David Montoya, Los Alamos National Laboratory

Thursday, April 3, 2008 (continued)

**3:00 pm - 3:30 pm Break, Grand Ballroom Foyer**

**5:45 pm - 7:00 pm Birds of a Feather Session**

- **Eclipse Parallel Tools Platform** **Mt. Oxford, Third Floor**  
Greg Watson, IBM Research Center  
Beth Tibbitts, IBM Research Center

**Friday, April 4, 2008**

**\*\* Friday's sessions and registration desk will be held in the Hyatt Conference Center (HCC), on the second floor of the Atrium Tower. Access to the HCC is via the hotel's main lobby. \*\***

**7:00 am - 8:00 am Continental Breakfast, Long's Peak, Second Floor, HCC**

**8:00 am - 12:00 pm Symposium Workshops**

- **LinuxBIOS Summit** **Pike's Peak, Second Floor, HCC**  
(Part 2 of 5, to be continued Friday afternoon)  
Ron Minnich, Sandia National Laboratory
- **High Availability and Performance Computing** **Mt. Elbert, Second Floor, HCC**  
(Part 2 of 2)  
Chokchai (Box) Leangsuksun, Louisiana Tech University  
Stephen L. Scott, Oak Ridge National Laboratory
- **Automatic Tuning of Libraries and Applications** **Mt. Evans A, Second Floor, HCC**  
(Part 2 of 2)  
Mary Hall, University of Southern California  
Kathy Yelick, University of California, Berkeley
- **Open|SpeedShop: An Open Source Performance Analysis Framework for Cluster Platforms (Tutorial)** **Mt. Evans B, Second Floor, HCC**  
Martin Schulz, Lawrence Livermore National Laboratory  
Jim Galarowicz, Krell Institute  
David Montoya, Los Alamos National Laboratory

**10:00 am - 10:30 am Break, Second Floor, Hyatt Conference Center Foyer**

**12:00 pm - 1:30 pm Lunch (on your own)**

Friday, April 4, 2008 (continued)

**1:30 pm - 5:30 pm Symposium Workshops**

- **LinuxBIOS Summit** **Pike's Peak, Second Floor, HCC**  
(Part 3 of 5, to be continued Saturday morning)  
Ron Minnich, Sandia National Laboratory
- **Scalable Tools Communication Infrastructure** **Mt. Elbert, Second Floor, HCC**  
Richard Graham, Oak Ridge National Laboratory

**3:00 pm - 3:30 pm Break, Second Floor, Hyatt Conference Center Foyer**

**Saturday, April 5, 2008**

**\*\*Saturday's sessions and registration desk will be in the Pinnacle Club on the 37<sup>th</sup> Floor of the Hyatt Conference Center. Access to the HCC is via the hotel's main lobby. \*\***

**7:00 am - 8:00 am Continental Breakfast, Sunlight Peak, 37<sup>th</sup> Floor, HCC**

**8:00 am - 12:00 pm Symposium Workshop, Sunlight Peak, 37<sup>th</sup> Floor, HCC**

- **LinuxBIOS Summit**  
(Part 4 of 5, to be concluded Saturday afternoon)  
Ron Minnich, Sandia National Laboratory

**12:00 pm - 1:30 pm Lunch (on your own)**

**1:30 pm - 5:30 pm Symposium Workshop, Sunlight Peak, 37<sup>th</sup> Floor, HCC**

- **LinuxBIOS Summit**  
(Part 5 of 5)  
Ron Minnich, Sandia National Laboratory