

2008 NCCS User Meeting - Agenda

Thursday, April 17

8:00 a.m.

Working breakfast to allow participants to discuss their work for the day's meeting, speakers to check slides, session chairs to finalize introductions, registration pickup for late arrivals.

8:30 a.m.

Welcoming Remarks Barbara Helland , DOE

8:45 a.m.

Welcome, Buddy Bland, James Hack, NCCS

9:15 a.m.

Keynote - "Death and Transfiguration: Exploring the Mysteries of Exploding Stars through High-Performance Computing", Anthony Mezzacappa, ORNL

10:15 a.m.

Break (JICS, Bldg. 5100, Room 125)

10:30 a.m.

Overview of NCCS User Council & Charge by User Group Chair- J Drake, CSM

10:45 a.m.

NCCS National Leadership Computing Facility: Doug Kothe

11:15 a.m.

User Assistance and Outreach Julia White, ORNL

11:45 a.m.

Overview of NCCS Support Ricky Kendall, ORNL

12:00 p.m.

Open Lunch - ORNL cafeteria

1:00 p.m.

Getting Started at the NCCS: What users can expect. Robert Whitten, ORNL

1:30 p.m.

XT4 Architecture and Software, Rebecca Hartman-Baker, ORNL

2:30 p.m.

XT Roadmap John Levesque, CRAY

3:15 p.m.

Break (JICS, Bldg. 5100, Room 125)

3:30 p.m.

NCCS Debugging Strategy, Richard Graham, ORNL

4:00 p.m.

NEW LCF/INCITE PIs - User Presentations (10 minutes, each):

" Cellulosic Ethanol: Physical Basis of Recalcitrance to Hydrolysis of Lignocellulosic Biomass", Jeremy Smith, ORNL, and University of Tennessee, Knoxville

" Modeling Heliospheric Phenomena with an Adaptive, MHD-Boltzmann Code", Nikolai Pogorelov, Institute of Geophysics and Planetary Physics, University of CA, Riverside

"Clean and Efficient Coal Gasifier Designs using Large-Scale Simulations", Chis Guenther, NETL, DOE

" Verification and Validation of Petascale Simulation of Turbulent Transport in Fusion Plasmas", Scott Klasky, ORNL

"Electronic, Lattice, and Mechanical Properties of Novel Nano-Structured Bulk Materials"  
Jihui Yang, General Motors

5:00 p.m.

Break before Reception

5:30 p.m.

Poster Reception (renewed projects), NCCS Tours of Computer Room and Everest (Bldg. 5700, Main Street Area); hors d'oeuvres 6:30 p.m. - Adjourn

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8:30 am

End to End Solutions at ORNL, Scott Klasky, Chen Jin, Norbert Podhorszki, ORNL

9:00 a.m.

NCCS Storage Strategies, Shane Cannon, ORNL

9:30 a.m.

OpenMPI at NCCS, Richard Graham, ORNL

10:00 a.m.

Visualization at NCCS, Ross Toedte

10:45 a.m.

Break

11:00 a.m.

NEW LCF/INCITE PIs - User Presentations (continued - 10 minutes, each ):

" Climate-Science Computational End Station Development and Grand Challenge Team", Lawrence Buja, NCAR

"Predictive and Accurate Monte Carlo-based Simulations for Mott Insulators, Cuprate Superconductors, and Nanoscale Systems", Thomas Schulthess

" High-Fidelity Simulations for Clean and Efficient Combustion of Alternative Fuels", Joseph C. Oefelein, Sandia National Laboratories

11:30 a.m.

User Survey Results, Actions Taken Bill Renaud, ORNL

12:00 p.m.

Working Lunch and Open User Discussion (Catered) User Business Meeting, User  
Chair: John Drake, ORNL; (JICS, Bldg. 5100, Room 125)

1:30 p.m.

User Business Meeting (continued), User Chair: John Drake, ORNL

- \* Describe operation of User Council
- \* Produce a final statement/action plan (user group chair)
- \* Identify number of times user group will meet
- \* Council elections

2:00 p.m.

Computer Room Tour (tentative)

3:00 p.m. Adjourn