

Presents...

SDSC

The Future of AstroComputing

December 16 & 17, 2010

San Diego Supercomputer Center

San Diego, CA

hipacc.ucsc.edu/FOA2010.html



The goal of this conference is to clarify the big issues for the next ~5 years in astrophysical computation and data, and to bring leaders in the field and at the main funding agencies and industrial organizations to meet with key computational astro-physicists, especially from the University of California and its affiliated DOE laboratories (LANL, LBNL, LLNL) and other West Coast institutions including Stanford, Caltech, and the University of Washington.

Principal organizers: Mike Norman (SDSC), Joel Primack (UCSC), Alex Szalay (JHU)

Speakers - Partial List

Kathy Yelick (NERSC) - How HPC Architecture and Software are Evolving Toward Exascale

Anthony Mezzacappa (ORNL) - Toward Realistic 3D Core Collapse Supernova Modeling

John Hawley (University of Virginia) - The Challenges Associated with Future, More Predictive, 3D Dynamic Astrophysical Simulations

Alex Szalay (JHU) - How Large Simulations and Databases Can Play Nicely with One Another

Joel Primack (UCSC) - The University of California High-Performance AstroComputing Center

Michael Norman (SDSC) - The Future of Enzo

Key Topics

Mass Data Transfer, Storage & Inquiry

Dynamic load balancing

Efficient use of GPUs

The next five years of UC-HIPACC

The Virtual Astronomical Observatory

Who Should Attend

Astrophysicists

Computer Scientists

Astronomy Outreach

Federal Agencies

Computer Industry

For more information and to register

visit us on the web at hipacc.ucsc.edu/FOA2010.html