

EU/US HPC Summer School in Lake Tahoe—Agenda.

Sunday August 7

18:00 – 20:00 – Welcome Reception, Tallac Room

Monday August 8 (Queen of the Lake Ballroom)

- 7:30 – 8:30 Full Breakfast and Registration (Atrium)
- 8:30 – 9:00 - HPC Challenges and Technology
 - PRACE Overview Lennart Johnsson, University of Houston
 - XD Overview – John Towns, NCSA
- 9:00 – 10:30 – Introduction of Participants (1 minute per person to say name, institution, field of research, and favorite hobby) – follow order of book
- 10:30 – Break
- 11:00 – 12:00 – Exascale Software Project
 - David Keyes, Columbia University and KAUST
- 12:00-13:30 – Lunch and Team Building, Atrium
- 13:30 – 17:00 Programming (break at 15:00/20 minutes)
 - Overview on Mixed MPI/OpenMP Programming, UPC, CAF, StarSs Model Alejandro Duran, Polytechnical University of Catalunya, Barcelona
 - David Henty, EPCC, University of Edinburgh, UK
- 18:00 – 20:00 – Electronic Poster Session and Reception, Tallac Room

Tuesday August 9 (Parallel sessions in Emerald and Nevada rooms)

7:30 – 8:30 Full Breakfast, Atrium

- 8:30 – 9:30 - Challenges by Scientific Disciplines I
 - Parallel track 1: Materials Science
 - Thomas Schulthess, ETHZ, Zurich, & CSCS, Switzerland
 - Parallel track 2: Plasma Physics
 - Frank Jenko, Max Planck Institute for Plasma Physics, Garching
- 9:30 – 10:30 - Challenges by Scientific Disciplines II
 - Parallel track 1: Life Sciences
 - Amber: Thomas Cheatham, Univ. Utah, US
 - Parallel track 2: CFD / Engineering
 - Ulrich Rist, University of Stuttgart
- 10:30 – 11:00 - Break
- 11:00 – 12:00 – Challenges by Scientific Disciplines II
 - Parallel Track 1: Cosmology
 - Britton Smith, Michigan State University
 - Parallel Track 2: Metagenomics - Earthmicrobiome Project
 - Folker Meyer, University of Chicago
- 12:00-13:30 – Lunch and Team Building, Atrium.
- 13:30 – 17:00 - Performance Analysis & Profiling - PAPI, IPM, PerfSuite, TAU, Vampir, Scalasca (break at 15:00/20 minutes)
 - Philip Blood, PSC, Pittsburgh, US
 - Bernd Mohr, FZJ, Juelich, Germany
- 17:00 – Dinner, Tallac room

Wednesday August 10

7:30 – 8:30 Full Breakfast, Atrium

8:30 – 9:30 - Challenges by Scientific Disciplines III

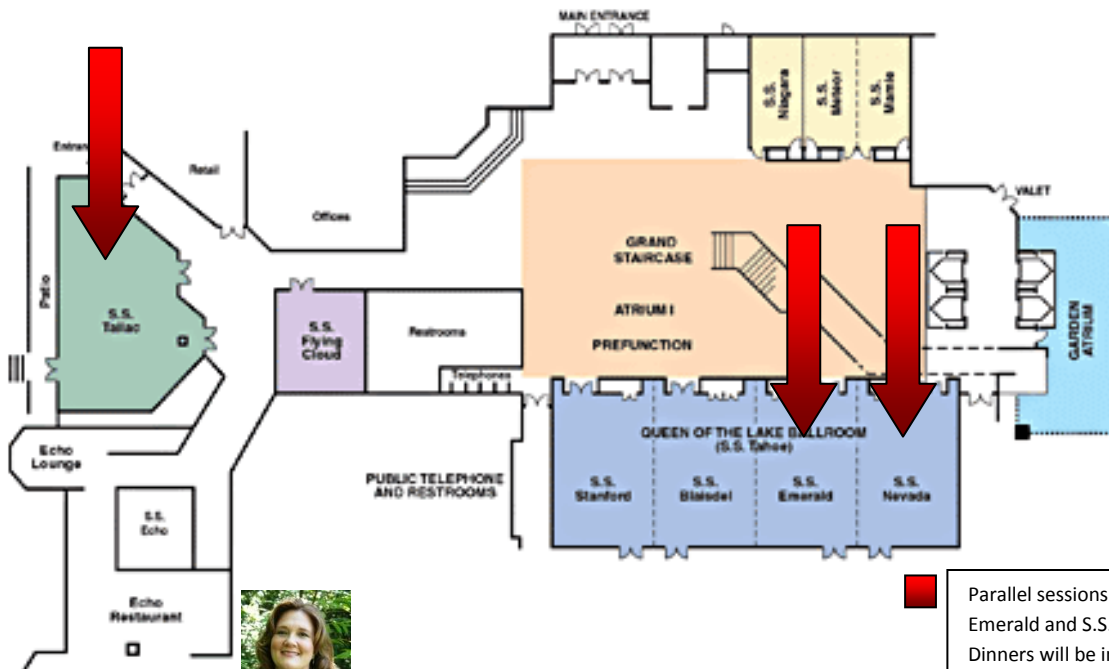
- Parallel track 1: Life Sciences
 - GROMACS – Erik Lindahl, University of Stockholm
- Parallel Track 2: Engineering - A Software Environment for Efficient Flow Simulations

- Hans-Joachim Bungartz, Technical University of Munich
- 9:30 – 10:30 – Numerical Algorithms & Parallel I/O
 - Parallel track 1: Scalable fast algorithms for Coulomb interactions
 - Olaf Lenz, University of Stuttgart Parallel track
 - Parallel Track 2: Parallel I/O
 - Lonnie Crosby, National Institute of Computational Sciences (NICS)
- 10:30 – 11:00 - Break
- 11:00 – 12:00 – Community Building Time
- 12:00-13:30 – Lunch and Team Building, Atrium
- 13:30 – 17:00 – GPU/CUDA programming, Wen-Mei Hwu, NCSA (break at 15:00/20 minutes)
- 17:00 – Dinner, Tallac room

Thursday August 11

- 7:30 – 8:30 Full Breakfast in Atrium.
- 8:30 – 9:30 – Challenges by Scientific Disciplines IV
 - Parallel Track 1: Numerical Libraries
 - Tony Drummond, LBNL, Berkeley, US
 - Parallel Track 2: Workflow Tools
 - Scott Callaghan, Southern California Earthquake Center, USC
- 9:30 – 12:00 - Data Intensive Computing
 - John R Johnson, Pacific Northwest Laboratory
- 12:00-13:30 – Lunch and Team Building, Atrium
- 13:30 – 16:30 Scientific Visualization (hands-on) (break at 15:00/20 minutes)
 - Amy Szczepański, University of Tennessee/NICS
- 16:30 – 17:00 Wrap-up Session.
- 17:00 – Dinner on your own or organized options.

Embassy Suites, South Lake Tahoe Floor Plan:



Questions? Call Elizabeth Leake, 815-793-8468

Parallel sessions will be in the S.S. Emerald and S.S. Nevada rooms. Dinners will be in the S.S. Tallac room, and breakfast and lunch are served in the Atrium.