



## Sun HPC Consortium USA 2005

### Bell Harbor Conference Center, Seattle

Saturday, November 12, 2005	
8:00 a.m.	Registration opens
<b>Morning Session – Bay Auditorium</b>	
9:00 a.m.	<b>Delivering HPC Innovation</b> , <i>Marc Hamilton, Sun Microsystems</i>
9:30 a.m.	<b>Building and Benchmarking a 10TF Linux Cluster</b> , <i>Jim Pepin, University of Southern California, USA</i>
10:00 a.m.	<b>ACEnet, the final link in Canada's HPC roadmap</b> , <i>Graham Mowbray, Executive Director, ACEnet, Canada</i>
10:30 a.m.	Break
11:00 a.m.	<b>AMD Opteron road map &amp; performance</b> , <i>Doug O'Flaherty, AMD, Joe Landman, Scalable Informatics</i>
11:45 a.m.	<b>Computational Molecular Science in Nanotechnology and Biotechnology: Implemented on Sun's Intel Xeon and AMD Opteron Grid Platforms</b> , <i>Sean Smith, Director, Centre for Computational Molecular Science, The University of Queensland, Brisbane, Australia</i>
12:15 p.m.	<b>Sun Developer Announcements</b> , <i>Richard Friedman, Tom Gryder, Sun Microsystems</i>
12:30 p.m.	<b>Lunch – Harbor Dining Room</b>
<b>Afternoon Session – Bay Auditorium</b>	
1:30 p.m.	<b>UltraSPARC &amp; CMT</b> , <i>Fred Kohout, Sun Microsystems</i>
2:10 p.m.	<b>Sun and the DARPA HPCS Program</b> , <i>Mike Vildibill, Sun Microsystems</i>
2:35 p.m.	<b>Productivity in HPC</b> , <i>Michael Van De Vanter, Productivity Team Lead, Sun Microsystems</i>
3:00 p.m.	<b>Sun v20z Cluster: A Retrospective</b> , <i>L. Eric Greenwade, Idaho National Labs, USA</i>
3:30 p.m.	Break
4:00 p.m.	<b>SAM-QFS Streaming I/O</b> , <i>Harriet Coverston, Sun Microsystems</i>
4:30 p.m.	<b>Innovations in Data Storage</b> , <i>Jeremy Werner, Sun Microsystems</i>
5:00 p.m.	<b>Open SMS</b> , <i>Steve Cranage, StorageTek/Sun Microsystems; Jim Gregory, Database manager, Ohio Supercomputing Center, USA</i>
5:30 p.m.	<b>Worldwide University Network Grid</b> , <i>David DeRoure, Southampton University, UK</i>
6:00 p.m.	End of Session
6:30 p.m.	<b>Reception and Dinner at the Odyssey Maritime Museum</b>



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Sunday, November 13, 2005	
9:00 a.m. - 12:00 pm.	<b>Breakout Sessions</b>
	<b>Grid and Portal Computing – Bay Auditorium</b>
	<b>Computational Biology – Sound Conference Room</b>
	<b>Developers Forum – Cove Conference Room</b>
12:00 p.m.	<b>Lunch – Harbor Dining Room</b>
<b>Afternoon Session - Bay Auditorium</b>	
1:00 p.m.	<b>Sun x64 servers</b> , <i>John Fowler, Executive Vice President, Network Systems, Sun Microsystems</i>
1:45 p.m.	<b>Science and Performance at Nottingham</b> , <i>Phil Williams, U. of Nottingham, UK, John Taylor, Streamline Computing, UK</i>
2:15 p.m.	<b>Solaris Cluster Grids</b> , <i>Tony Kay, Sun Microsystems</i>
2:45 p.m.	<b>Learn how to Harness the Power of Sun Grid Utility Computing</b> , <i>Tom McSweeney, Sun Microsystems</i>
3:15 p.m.	Break
3:45 p.m.	<b>Vizualization at TACC</b> , <i>Gregory S. Johnson, Visualization and Data Analysis Group, Texas Advanced Computing Center</i>
4:15 p.m.	<b>Sun Grid Rack Systems</b> , <i>Michael Schulman, Sun Microsystems</i>
4:45 p.m.	<b>Voltaire&amp;Sun at DLR</b> , <i>John Asher, Voltaire Inc.</i>
5:15 p.m.	<b>Open IB</b> , <i>Bill Boas, LLNL</i>
5:45 p.m.	<b>End of Consortium</b>
7:00 p.m.	<b>Informal Sun SC05 Reception</b>



## Sun HPC Consortium USA 2005 Breakout Session Agendas

**Sunday, November 13, 2005**

### Grid and Portal Computing – Bay Auditorium

8:00 a.m.	<b>Kick off and Introductions</b> , <i>Brian Hammond, Sun Microsystems</i>
8:20 a.m.	<b>DataGrid in Earth System Sciences</b> , <i>Rainer Weigle, Max-Planck-Institute for Meteorology, Hamburg, Germany</i>
8:40 a.m.	<b>The Asia-Pacific Science and Technology Center</b> , <i>Simon See, Sun Microsystems</i>
9:00 a.m.	<b>Computational Markets: a General Setting for Services and a Gateway to Sun Grid</b> , <i>John Darlington, Imperial College, UK</i>
9:20 a.m.	<b>OMII 2.0 and beyond</b> , <i>Steven Newhouse, OMII, UK</i>
9:40 a.m.	<b>Gridge: Grid tools and services for Grid applications</b> , <i>Jarek Nabrzyski, Poznan Supercomputing &amp; Networking Center, Poland</i>
10:00 a.m.	<i>Break</i>
10:20 a.m.	<b>Microseconds Matter - Innovations in High Performance Ethernet</b> , <i>Steve Pope, CTO Level 5 Networks</i>
10:40 a.m.	<b>Advances in N1GE</b> , <i>Fritz Ferstl, Sun Microsystems</i>
11:00 a.m.	<b>Virtualizing the Network with the Sun Secure Application Switch - N1000 Series</b> , <i>Jason Goldschmidt, Product Marketing Engineer, Sun Microsystems</i>
11:20 a.m.	<b>Web based portal and cluster companion suite for Sun Grid Engine 6.0 based clusters: GC-portal and GC-center</b> , <i>Devarajan Subramanian, Gridcore AB, Sweden</i>
11:40 p.m.	<b>OSCAR Grid Engine Package a.k.a. Build a SGE-HPC Cluster in Minutes</b> , <i>Babu Sundaram, U. of Houston, USA</i>

### Computational Biology – Sound Conference Room

8:45 a.m.	<b>Kick off and Introductions</b> , <i>Stefan Unger, Sun Microsystems</i>
9:00 a.m.	<b>Data Driven Science</b> , <i>Todd Smith, Geospiza</i>
9:30 a.m.	<b>Accelerating Data for Computational Biology</b> , <i>Steve Perrenod, Excludus</i>
10:00 a.m.	<b>Multi-site Research Collaboration using Internet2</b> , <i>Myron Lowe, UMN</i>
10:30 a.m.	<i>Break</i>
10:45 a.m.	<b>Drug Design</b> , <i>Fumio Mizoguchi, Tokyo Institute of Technology, Japan</i>
11:15 a.m.	<b>Protein Folding - The Holy Grail of Biological Research</b> , <i>Phil Williams, U. of Nottingham, UK</i>
11:45 a.m.	<b>Wrap up</b> , <i>Stefan Unger, Sun Microsystems</i>

### Developers Forum – Cove Conference Room

8:00 a.m.	<b>Sun's Strategy for CMT Tools</b> , <i>Ruud van der Pas, Sun Microsystems</i>
8:30 a.m.	<b>Studio Analyzer</b> , <i>Marty Itzkowitz, Sun Microsystems</i>
8:50 a.m.	<b>Sun MPI roadmap</b> , <i>Josh Simons, Sun Microsystems</i>
9:20 a.m.	<b>HPCS Productivity</b> , <i>Michael Van de Vanter, Sun Microsystems</i>
9:40 a.m.	<b>HPC Program Development on Sun Fire cluster</b> , <i>Dieter an Mey, Aachen University</i>
10:00 a.m.	<i>Break</i>
10:20 a.m.	<b>TAU at work</b> , <i>Alan Maloney, University of Oregon</i>
10:40 a.m.	<b>Open64: a reference OpenMP compiler</b> , <i>Barbara Chapman, U. of Houston</i>
11:00 a.m.	<b>ACML</b> , <i>Ian Reid, Numerical Algorithms Group</i>
11:20 a.m.	<b>Allinea Parallel Development Tools</b> , <i>Michael Rudgyard, Allinea Software</i>
11:40 a.m.	<b>Parallelization of applications using ParaWise</b> , <i>S.P.Johnson, Parallel SP</i>