WEDNESDAY – APRIL 25

7:30 AM	Registration/Introduction to Sessions Breakfast Available (Terrace)
8:30 AM	**Session 3** **Defining the HPC Ecosystem** Chair – Ron Brightwell ***The HPC Ecosystem at Amazon Web Services*** Brian Barrett – Amazon Web Services ---------- ***What is a Supercomputer and Why Do We Get Confused About How to Define Them?*** Bill Kramer –University of Illinois/NCSA ---------- ***Interesting Times Ahead*** Bob Lucas – University of Southern California/ISI
10:00 AM	Break
10:30 AM	***HPC Workflows – Ecosystem Impact and Challenges*** Robert Clay – Sandia National Laboratories
11:00 AM	Panel Discussion
NOON	LUNCH ON YOUR OWN – NO AFTERNOON SESSIONS
5:00 PM to 8:00 PM	***Random Access*** Long House **Sign up on-line at:** **http://salishan.ahsc-nm.org/2018RandomAccess.html**
8:00 PM	***Student Poster Session and Informal Discussions*** Council House

STUDENT POSTER SESSION PARTICIPANTS

Thaleia Dimitra Doudali
Georgia Technical Institute

Ivo Jimenez
University of California, Santa Cruz

Nicholas Lewis
University of Minnesota

Massimiliano Lupo Pasini
Emory University

Vinay Ramakrishnaiah
University of Wyoming

Nicholas Stegmeier
South Dakota State University

Chad Wood
University of Oregon

THURSDAY – APRIL 26

7:30 AM	Registration/Introduction to Sessions Breakfast Available (Terrace)
8:30 AM	**Session 4** **Leveraging Investments from the Past and Optimizing Future Investment in Applications** Chair – Katie Lewis ***Leveraging Past and Current Investments for LANL's Future Multi-Physics, Large-Scale Simulation Capability*** Jerry Brock – Los Alamos National Laboratory ---------- ***How ASCI Changed the Face of Modern Computing*** Patrick Miller – Quantlab Financial ---------- ***An Applications-Driven Path from Terascale to Exascale with the AMT Uintah Framework*** Martin Berzins – SCI Institute/University of Utah
10:00 AM	Break
10:30 AM	***DOE's Open Source Leadership in Scientific Visualization*** Cyrus Harrison – Lawrence Livermore National Laboratory
11:00 AM	Panel Discussion
NOON	Lunch: Council House
1:30 PM	**Session 5** **Sharing Knowledge: Cross-Talk Between HPC and the Large-Scale Data Center Community** Chair – Christoph Junghans ***Building a Production Testbed for Systems Research from Commodity Software*** Kate Kaehey – Argonne National Laboratory ---------- ***Charliecloud Containers for Fun and Profit in HPC*** Reid Priedhorsky – Los Alamos National Laboratory ---------- ***Can Economical Object Storage Really Replace Parallel File Systems for HPC*** Tony Barbagallo – Caringo, Inc.
3:00 PM	Break
3:30 PM	***A University HPC Center Perspective on HPC and Cloud Providers*** Dan Stanzione – The University of Texas at Austin
4:00	Panel Discussion
5:00	Informal Discussions Council House

We hope you enjoyed the 2018 Salishan Conference on High Speed Computing!

Please complete our online survey:
http://salishan.ahsc-nm.org/2018Survey.html

Next Conference Dates

April 22-25, 2019
April 27-30, 2020
April 26-29, 2021

At-a-Glance Agenda

The Salishan Conference on High Speed Computing

Maximizing Return on Investment for HPC in a Changing Computing Landscape

April 23-26, 2018

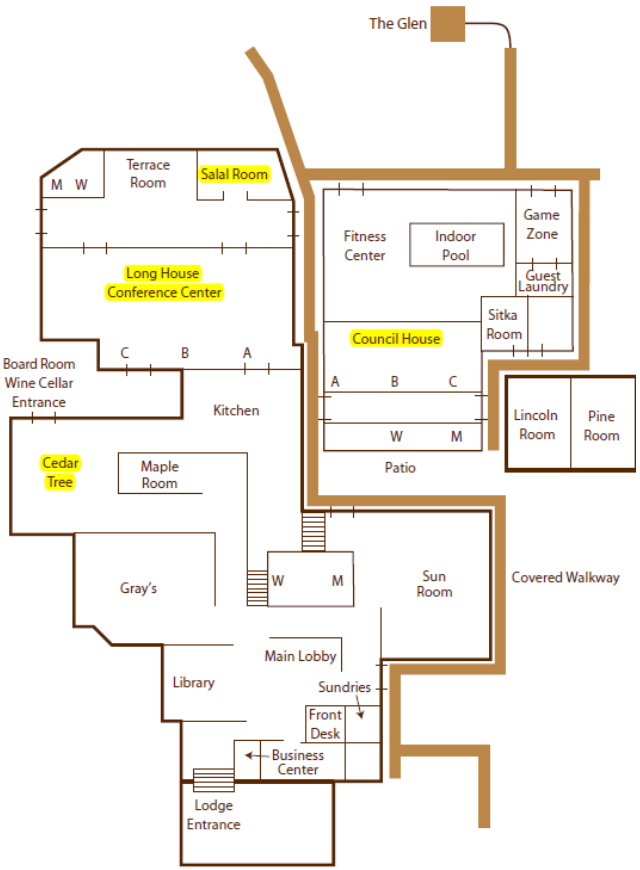
LOGISTICS

Conference sessions and the Random Access session will be held in the Long House Conference Center. Lunches and the working dinner will be held in the Council House.

For administrative support, please speak to Dee Cadena, Gloria Montoya-Rivera or Jan Susco, located in the registration area (Salal Room). If you have specific questions regarding audiovisual equipment or network connectivity, please seek out administrative support.

Visit our website at: **http://salishan.ahsc-nm.org**

MAIN LEVEL LODGE MAP



MONDAY – APRIL 23

4:30 PM	Registration Opens Salal Room
6:00 PM	**Welcome/Keynote Address** Long House ***Computing Challenges for the Third Decade of Stockpile Stewardship*** Mark Anderson *National Nuclear Security Administration*
Immediately following Keynote Address	Reception and Informal Discussions Council House
7:00 PM	Registration Closes

SPONSORS

One of the highlights of the conference are the informal discussions held each evening. These sessions help us to go beyond the formal presentations to exchange ideas, solve problems, and develop friendships. This year the following companies are helping to sponsor the evening informal discussion sessions:

Advanced Micro Devices, Inc.
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Cray, Inc.
DDN Storage
D-Wave Systems, Inc.
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IBM Corporation
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Micron Technology, Inc.
NVIDIA Corporation
Penguin Computing
SUSE

We would like to express our gratitude to these companies for their generous support!

TUESDAY – APRIL 24

7:30 AM	Registration/Introduction to Sessions Breakfast Available (Terrace)
8:30 AM	**Session 1** **Maximizing Mission Science per Investment Dollar** Chair – Robin Goldstone ***HPC and its Role in Maximizing Weapons Program Investments*** Chris Clouse – Lawrence Livermore National Laboratory --- ***Maximizing the Impact of DoD HPCMP Investments*** Roy Campbell – Department of Defense HPC Mod --- ***Can the Tension Between Projectization and Agility/Innovation for Apps and Software Development Motivate Better ROI?*** Doug Kothe – Oak Ridge National Laboratory
10:00 AM	Break
10:30 AM	***30 Years of HPC from Gigaflops to Exaflops: No Science Applications Left Behind or Thinning the Herd?*** Steve Plimpton – Sandia National Laboratories
11:00 AM	Panel Discussion
NOON	Lunch: Council House
1:30 PM	**Session 2** **Removing Constraints, Engaging Challenges, Realizing Opportunity: An Era of New Ecosystems** Chair – Carolyn Connor ***International Trends in the HPC Market and an Update on the ROI from HPC Investments, with a Focus on Chinese, European and Japanese Exascale Plans*** Earl Joseph – Hyperion Research --- ***Opportunities and Challenges of the COTS IP Model in HPC*** Eric Van Hensbergen – arm --- ***Building a Universal Silicon Compiler*** Andres Olofsson – DARPA
3:00 PM	Break
3:30 PM	***Quantum Computing from the Computer Science Perspective: What Will the Software Ecosystem Look Like?*** Mark Heiligman – IARPA
4:00 PM	Panel Discussion
6:00 PM	**Working Dinner/Speaker** Council House ***Surveying the Sky with the LSST: Software as the Instrument of the Next Decade*** Andrew Connolly – Washington State University Informal Discussions Cedar Tree Room *(Immediately following Working Dinner)*