

HPC·AI
ADVISORY COUNCIL
NETWORK OF EXPERTISE

STANFORD

High Performance Computing Center



2019 Stanford Conference



Thank You!

Sponsors



Media



9:00 - 9:10	Welcome - Stanford High Performance Computing Center and HPC-AI Advisory Council
9:15 - 10:00	Keynote: Sierra: Science Unleashed (Lawrence Livermore National Laboratory)
10:05 - 10:35	Industry Insights: XTREME-Stargate - The New Era of HPC Cloud platform (XTREME-D Inc.)
10:40 - 10:55	BREAK
11:00 - 11:45	Keynote: How to Design Scalable HPC, Deep Learning and Cloud Middleware for Exascale Systems (The Ohio State University)
11:50 - 12:30	Best Practices: SUSE Linux for HPC - It Just Keeps Getting Better (SUSE)
	LUNCH
12:30 - 13:15	<i>Brown Bag BoF: "HPC for the rest of us..." Operating small to medium sized HPC Center? Join a lunch-time chat, share stories from the trenches, ideate on innovative ways to manage resources, bring your own topics ...!</i>
13:20 - 14:00	Community Catalyst: Spack: A Package Manager for HPC (Lawrence Livermore National Laboratory)
14:05 - 14:35	Industry Insights: Architecting the Right System for Your AI Application—without the Vendor Fluff (Microway)
14:40 - 15:10	Best Practices: Designing Convergent HPC and BigData Software Stacks: An Overview of the HiBD Project (The Ohio State University)
15:10 - 15:25	BREAK
15:30 - 16:00	Industry Insights: Introduction to Intel® Optane Data Center Persistent Memory (Intel Corporation)
16:05 - 16:45	Community Catalyst: Singularity - Container Workflows for Compute (Sylabs Inc.)
16:50 - 17:30	Market Analysis: HPC Computing Trends (Intersect360 Research)
17:30	Recap & Day 2 Preview

Day 2 - Friday

9:00-9:05	Welcome - Stanford High Performance Computing Center and HPC-AI Advisory Council
9:10 - 9:50	Keynote: Supercomputing & Simulation ~ Sciences Fourth Pursuit (NVIDIA)
9:55 - 10:25	Industry Insights: Game-Changer for Complex Engineering Applications (OnScale)
10:25 - 10:40	Break
10:45 - 11:25	Visionary Perspectives: Pioneering and Democratizing Scalable HPC+AI (Pittsburgh Supercomputing Center, Carnegie Mellon University)
11:30- 12:15	Tutorial: SHARP
12:15 - 13:00	LUNCH
13:05 - 13:35	Industry Insights: Accelerating & Optimizing Machine Learning on VMware vSphere leveraging NVIDIA GPU (Vmware)
13:40 - 14:10	Best Practices: A Fast, Scale-able HPC Engine for Data Ingest (Integral Engineering)
14:15 - 15:00	HPC Impact: Container Mythbusters (Los Alamos National Laboratory)
15:00 - 15:15	BREAK
15:20 - 16:00	Industry Insights: Innovative Use of HPC in the Cloud for AI, CFD & LifeScience (UberCloud)
16:05 - 16:45	Community Catalyst: Scalable Machine Learning: The Role of Stratified Data Sharding (The Ohio State University)
16:50 - 17:30	HPC Impact: HPC and Visualization Innovation Manager
17:35 - 18:20	End Note: ASTRA – A Large Scale ARM64 HPC Deployment (Sandia National Laboratories)
18:25	Raffle & Wrap Up

- **HPC-AI Advisory Council**
 - More than 400 members, <http://www.hpcadvisorycouncil.com/>
 - Application best practices, case studies
 - Benchmarking center with remote access for users
 - World-wide conferences
- **2019 Conferences**
 - USA (Stanford University) – February
 - Switzerland (CSCS) – April
 - Student Cluster Competition (ISC) – July
 - Australia - August
 - Spain (BSC) – Sep
 - China (HPC China)
- **2019 Competitions**
 - APAC HPC-AI Competition - March
 - China - 7th Annual RDMA Competition - May
 - ISC Germany - 8th Annual Student Cluster Competition - June
- **For more information**
 - www.hpcadvisorycouncil.com
 - info@hpcadvisorycouncil.com



- **The workshop goals**
 - Education, training, solutions, futures
- **2 days workshop and a tight schedule**
 - We encourage live discussions
 - We want to have all sessions start in time
 - There are breaks for offline discussions
- **Speakers – make sure we have your slides!**
- **Raffle**
 - Friday afternoon
- **Please visit our sponsors tables**

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See you next year!

