

Lunch & Learn

May 30, 2024



**Educating & Connecting
the HPC & AI Community**

Mission

Educating & Connecting HPC & AI Users to Technology

- SHPCP is a charitable, non-profit 501(c)(3) organization
- Educating and connecting the HPC user community, industry, government, and academia with the latest technology and best practices
- Focus areas include: Simulation, AI/ML, Data Science, Graph Analytics, Cloud Computing, Quantum Computing, Cyber Security, and Visualization
- HPC & AI are horizontal technologies, with applications in Energy, Life Sciences, Engineering, Manufacturing, Weather & Climate, Financial Services, Cybersecurity, Government, and Academia



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Member Benefits

SHPCP membership is open to all HPC professionals serving all industries WW

If you are interested in participating in the Society's efforts to provide a vendor-neutral, user-centric organization that truly serves the needs of the HPC community, please join us!

Individuals can join the Society as Professional Members for an annual fee of just \$60.00

- No cost to attend all HPC Society events
- View streamed events if not able to attend in person
- Receive access to:
 - Presentation materials (when approved by the presenting organization)
 - Streamed event recordings
 - Archived presentations and technical publications



Students can join the Society as Student Members *for free*

- No charge to attend annual technology event
- Half price to attend Lunch & Learn events
- Receive access to:
 - Presentation materials (when approved by the presenting organization)
 - Streamed event recordings
 - Archived presentations and technical publications
- A valid .edu email address is required



Note: membership is for full 12 months regardless of when you join (based on join date, not calendar date)

Coming soon: new job board for members and sponsors

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Sponsorship Opportunities: <https://hpcsociety.org/get-involved/sponsorship/>

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2024 Event Schedule

Month	Event	Topic	Houston: HCC West Loop Campus	Austin: Texas Advanced Computing Center	Special Occasion Venue
January 2024	Lunch & Learn	Performant Data Analytics Through Purpose-Built Computer Architecture, Martin Deneroff, CEO Lucata	25 Jan. 2024		
February 2024	Lunch & Learn	Making Digital Twins a Reality for Clinical Oncology - Ernesto Lima, UT Austin		29 Feb. 2024	
March 2024	Partner event	Energy HPC Conference (Rice University)			Rice Univ. BRC 5-7 March 2024
April 2024	Partner event	2024 Gulf Coast Conference & Expo on Artificial Intelligence	11-12 April 2024		
April 2024	Annual SHPCP Event	Annual Technology Meeting of the Society of HPC Professionals			Shell Woodcreek Campus 25 April 2024
May 2024	Lunch & Learn	Thunderbird Next Gen Compute Accelerator for HPC, AI, and Graph Analytics - Doug Norton, InspireSemi		30 May 2024	
June 2024	Lunch & Learn	Tour of Shell and DUG Houston datcetners	27 June 2024		Skybox Datacenters, Houston

June 2024

month week day

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30 11:30AM SHPCP May 2024 Lunch & Learn	31	1	2
3	4	5	6	7	8	9
10 RAM EAGE Annual	11	12	13	14	15	16
17	18	19	20	21	22	23
24 RAM RISC-V Summit Europe	25	26	27	28	29	30
1	2	3	4 11:30AM SHPCP June 2024 Lunch & Learn	5	6	7



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Upcoming SHPCP Event Participation



[EAGE Annual Conference & Exposition](#)

Technology and talent for a secure and sustainable energy future

10-13 June 2024

Oslo, Norway

SHPCP President Doug Norton leading industry panels on AI and OSDU



[Image '24](#)

The International Meeting for Applied Geoscience & Energy

26-29 August 2024

George R. Brown Convention Center
Houston, Texas

Calendar of all upcoming and past events at <https://hpcsociety.org/events/>
Including presentations and video replays for members

Today's Topic & Speakers: InspireSemi™

Alex Gray, Doug Norton, Thomas Fedorko, Teo Hall

Thunderbird Compute Accelerator for HPC, AI, & Graph Analytics

InspireSemi's powerful Thunderbird "supercomputer cluster-on-a-chip" accelerated computing solution is based on an array of thousands of modern, efficient, and powerful 64-bit CPU cores, tightly integrated with high-speed memory and networking. With over 6,000 interconnected 64-bit CPU cores (FP64) per PCIe card, it is an energy-efficient and versatile platform for HPC, AI, graph analytics, and other compute-intensive workloads.

Thunderbird leverages the modern, open standard RISC-V CPU ISA (instruction set architecture), which provides access to an established, thriving ecosystem of software, compilers, libraries, and development tools. The developer-friendly all-CPU programming model eliminates vendor lock-in and greatly simplifies software development, QA, and maintenance, since there is no need to support multiple and often proprietary software stacks (e.g.- CUDA, ROCm, FPGAs, etc.).



Alexander Gray
Founder, President & CTO



Doug Norton
CMO



Thomas Fedorko
COO