

# Vail Computer Elements Workshop



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## VCEW Preliminary Program 2025

*All Times Mountain Daylight Time (UTC-6)*

### Sunday, June 8th

4:00 pm **Check-in Time** for the Lodge at Vail  
5:00 pm Gather **in the Lodge lobby** and walk to the **Reception**  
6:30 pm **Dinner:**  
8:15 pm **Keynote George Ka'iliwai III** *Enhancing Our National Security Through Computer Hardware and Software*,  
National Security Fellow for the MITRE Corporation

### Monday, June 9th

7:30 am **Continental Breakfast**  
8:30 am **Welcome**

#### Session 1: Compute : Eric Fetzer

8:45 am *Opportunities for Hardware Tailoring in an era of AI Dominance* Galen Shipman, Los Alamos National Labs  
9:30 am *Challenges in Hyperscale Server Serviceability* Rob Chappell, Microsoft  
10:15 am **Break**  
10:30 am *System Scale Architecture for next gen Datacenter and AI* Wilfred Gomes, Mueon  
11:15 am *Efficient Programming on Heterogeneous Accelerators* Peipei Zhou, Brown University  
12:00 pm **Lunch**

#### Session 2: AI: Tom St John, Ryan Tabrah

1:00 pm *A Cross-Stack Approach to Realizing Energy Efficient and Sustainable AI* Udit Gupta, Cornell University  
1:45 pm *ScalarLM: RL and Post-Training on AMD MI300X* Greg Diamos, TensorWave  
2:30 pm **Break**  
2:45 pm *DGX Cloud and the Art of AI Acceleration* Michael Gschwind, NVIDIA  
3:30 pm *AI Deployment Challenges* Femi Oluwafemi, Intel

5:00 pm     **Reception**  
6:30 pm     **Dinner: La Nonna**

**Session 3: Interactive AI Session: Ryan Tabrah**

8:15 pm     *Blind Spots: What Experts Miss and AI Finds*

A live exploration of where domain intuition fails—and machine insight thrives. Ryan Tabrah, Skillsforge AI

**Tuesday, June 10th**

7:30 am     **Continental Breakfast**

**Session 4: Power, Performance and Sustainability: Rajshree Chabulswar, William Wang & Memory: Thomas Vogelsang**

8:45 am     *Power grids and computing* Bri-Matthias Hodge, CU Boulder / NIST

9:30 am     *EU Energy Regulations/Lot3 GTD* Stephen Eastman, Intel

10:15 am     **Break**

10:30 am     *Google performance and PMU talk* Stephane Eranian, Google

11:15 am     *Compute Near Storage* Qing Zheng, Los Alamos National Labs

12:00 pm     **Lunch**

1:00 pm     **Free Time to enjoy Vail**

4:00 pm     **Planning Session for VCEW 2026**

5:00 pm     **Reception**

6:30 pm     **Dinner: Lancelot**

**Session 5: Communications, Networking and Photonics: Victor Aguero**

8:15 pm     *Photonics and Quantum Science at SRI International* Shon Cook, SRI International

**Wednesday, June 11th**

7:30 am     **Continental Breakfast**

**Session 6: Memory: Thomas Vogelsang & Communications, Networking and Photonics: Jack Harwood and Victor Aguero**

8:45 am     *Memory system with CXL/PNM (processing-near memory)* Hokyoon Lee, Samsung

9:30 am     *Memristor Accelerators* Ben Feinberg, Sandia National Labs

10:15 am     **Break**

10:30 am     *Tightly-integrated and Flexible Systems to Address HPC and AI Communication Challenges* Samantika Sury, HPE

11:15 am     *Scaling Up with Low Latency Ethernet* Jai Kumar, Broadcom

12:00 pm     **Awards and Final Thoughts:**

**VCEW 2025 Program Committee**

Chairs: Don Soltis, Intel and Dave Baker, Akeana

**Session Chairs**

**Processors:** Eric Fetzer, Intel

**Memory:** Thomas Vogelsang, Rambus

**Consumer Electronics:** Atsushi Hasegawa and Ichiro Naka, University of Tokyo

**AI:** Tom St John, Decompute and Ryan Tabrah, Skillsforge AI

**Power, Performance and Sustainability:** Rajshree Chabukswar, Intel and William Wang, Bytedance

**Communications, Networking and Photonics:** Jack Harwood, Dell and Victor Aguero, Cambrian Works

**Software:** Joe Izraelevitz, University of Colorado at Boulder

*The Vail Computer Elements Workshop is sponsored by VCEW in cooperation with Usenix*

