

VCEW 2024 Program

All Times Mountain Daylight Time (UTC-6)

Works

3:30 pm

Sunday, June 9 th	
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: The Lodge at Vail
8:30 pm	Keynote: From the Garage to Mars: Memoirs of a Space Entrepreneur, Scott Tibbetts
Monday, June 10 th	
7:30 am	Continental Breakfast
8:30 am	Welcome: Jim Hughes, VCEW Executive Committee Chair
Session 1	Processors
8:45 am Chiplet Motivation and Design Considerations for the Next Gen Data Center, Eric Fetzer, Intel	
9:30 am	AMD MI300, Mike Schulte, AMD (Virtual Talk)
10:15 am	15-Minute Break
10:30 am	TBD, John Branhaver, Lemurian Labs
11:15 am	Memory-Centric Computing, Onur Mutlu, ETH Zurich
12:00 pm	Lunch
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Session 2	Space + Security
1:00 pm	Sky is NOT the Limit, Tusher Chakraborty, Microsoft Research
1:45 pm	Detection and Correction of Radiation Errors for Commodity Microprocessors,
2:30 pm	Joe Izraelevitz, University of Colorado at Boulder 15-minute Break
2:45 pm	Implications of a Dynamic Global Network in Space, Victor Aguero, Cambrian

GHOST: Hiding in Plain Sight, Tamara Lehman, University of Colorado at Boulder



5:00 pm **Reception**

6:30 pm **Dinner**: La Nonna

Session 3 Consumer Electronics

8:30 pm SoC Chip Design Center, Ichiro Naka, AIST

9:15 pm AI IP Evaluation Platform, Atsushi Hasegawa, University of Tokyo

Tuesday, June 11th

7:30 am Continental Breakfast

Session 4 Al Systems

8:45 am LLMs 101, Dave Baker, Akeana

9:30 am *TBD,* Tom St. John, Meta

10:15 am 15-minute Break

10:30 am Enabling Compound AI: A Data Centric Approach, Jack Harwood, Marvell

11:15 am Powering Al's Future with Ultra Ethernet (UEC), J Metz, AMD

12:00 pm **Lunch**

1:30 pm – 4:00 pm Free Time to enjoy Vail

4:00 pm Planning Session for VCEW 2025

5:00 pm **Reception**

6:30 pm **Dinner:** Lancelot

Session 5 VCEW Moderated Group Discussion

8:30 pm AI's Place in Hardware Product Design and Development

Moderators: Vijay Janapa Reddy, Harvard, and Dave Baker, Akeana

Wednesday, June 12th

7:30 am **Continental Breakfast**

Session 6 Security + Quantum

8:45 am Rethinking Secure NVM (and its implications for CXL), Iris Bahar, Colorado School

of Mines

9:30 am Quantum Processor Tech, Charlie Baldwin, Quantinuum (virtual)

10:15 am *15-minute Break*

10:30 am What Can Quantum Learn from Classical Computing?, Anne Matsuura, Intel

(virtual)

11:15 am NIST PQC, Hot Off the Presses, and What's Next?, Daniel Apon, MITRE (virtual)



12:00 pm Final Thoughts: Jim Hughes, VCEW Executive Committee Chair

VCEW 2024 Program Committee

Co-Chairs: Brian Hirano, Micron and Don Soltis, Intel

Session Chairs

Processor: Don Soltis, Intel and Brian Thompto, AMD **Quantum**: Andrew

Wack, IBM

Consumer Electronics: Atsushi Hasegawa, University of Tokyo Security: John Kelsey,

NIST

AI: Dave Baker, Akeana and Vijay Janapa Reddy, Harvard Space: Rajshree Chabukswar, Intel and Brian Hirano, Micron