



Vail Computer Elements Workshop 2018

Sunday, June 24, 2018

- 5:00-6:30 pm Social Hour: **AD-4 Condo** (Directions available at the Christiania Hotel)
- 6:30- 8:00 pm **Dinner** **Restaurant: Left Bank** (*substitute for the closed Campo Di Fiore*)
- 8:00-9:30 pm **Keynote: Speed doesn't matter if you can't drive it**, Stephanie Rosenbaum, TecEd, Inc.

Monday, June 25, 2018

- 7:30-9:00 am Breakfast: Sarah's Lounge
- 9:00am *Opening Words - Jim Hughes*

Session 1 Consumer Electronics

Chairs: *Atsushi Hasegawa, Renesas; Yoshio Masubuchi, Toshiba Memory*

- 9:00-9:45 am 1. Endpoint AI Chip, *Atsushi Hasegawa, Renesas*
9:45- 10:30 am 2. Near-Data Computing, *Jun Deguchi, Toshiba Memory*
- 10:30-10:45 am *Break & Group Picture*
- 10:45-11:30 am 3. MPEG Media Transport Technologies and its application to immersive media communication services, *Takayuki Nakachi, NTT*
11:30 -12:15 pm 4. Side Channel Attacks in the Real World *Bot, Ordo Labs*

- 12:15-1:30 pm Lunch: Sarah's Lounge

Session 2 Processors

Chairs: *Yahya Sotoudeh Intel; Steve Miller Intel*

- 1:30-2:15 pm 1. Cavium ThunderX2 Processor *Rabin Sugumar, Cavium*
2:15-3:00 pm 2. RISC-V FireSim/FireBox *Sagar Karandikar, UC Berkeley ADEPT Lab*
- 3:00 -3:15 pm *Break*
- 3:15-4:00 pm 3. ARM Machine Learning Processor *Ian Bratt, ARM*
4:00-4:45 pm 4. AMD EPYC *Jay Fleischman, amD*

4:45-5:00 pm *Break*

- 5:00-6:15 pm **Social Hour:** **AD-4 Condo**
- 6:15-8:00 pm **Dinner** **Restaurant: The Lancelot**

Session 3

- 8:00-9:30 pm 1. From Exabytes to Nobel Prizes *Fons Rademakers, CERN*

Tuesday, June 26, 2018

- 7:00-8:30 am Breakfast: Sarah's Lounge

8:30 am **Session 4 Database + Processors**

Chairs: Pankaj Mehra, Samsung, Arun Majumdar, Kyndi, Inc

8:30-9:15 am	1	Systems and Machine Learning	Amir Khorsrowshahi, Intel (Nervana)
9:15-10:00 am	2	BigStream	Maysam Lavasani, BigStream

10:00 am 10:15 am Break

10:15-11:00 am	3	Massive Shared Memory on Commodity Processors	Steffan Persvold, Numascale
11:00-11:45 am	4	3DIC	Don Draper, ProPrincipia

11:45-1:00 pm Lunch Sarah's Lounge

1:00-4:00 pm Afternoon Free

4:00-5:00 pm Planning Meeting in Sara's Lounge
Optional, but please attend to help plan VCEW 2019
Refreshments provided

5:00-6:00 pm **Social Hour:**

AD-4 Condo

6:00-8:00 pm **Dinner Restaurant: Left Bank**

Session 5 Accelerators

Chairs: Mike Nelson, Intel; Steve Fields, IBM

8:00-8:45 pm	1	Microsoft Brainwave: Flexible Deep-Learning Accelerator	Eric Chung, Microsoft Research
8:45-9:30 pm	2	Intel's Acceleration Stack Tool Chain for Xeon CPUs with FPGAs	Michal Skiba, Intel (PSG)

Wednesday, June 27, 2018

7:00-8:30 am Breakfast: Sarah's Lounge

Session 6 Programming Languages + Internet Economy

Chairs: Andy Rudoff, Intel; Pete Wilson, Kiva Design Groupe; Rich Zippel, Google; John Kelsey, NIST

8:30-9:15 am	1	Computer Architecture Considered Harmful	Pete Wilson Kiva Design Groupe
9:15-10:00 am	2	Marketing for the 21st Century: Online Behavioral and Contextual Ads	George Salem

10:00-10:15 am Break

10:15-11:00 am	3	Enhancing Java for Persistent Memory	Steve Dohrmann Intel
11:00-11:45 am	4	The NIST Beacon and Public Randomness	John Kelsey NIST

11:45 Closing words - Jim Hughes.

11:45-1:00 pm Lunch