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 services ,	3	MPEG Media Transport Technologies and its application to immersive media communication	*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 *Lab*	2	RISC-V FireSim/FireBox	*Sagar Karandikar, UC Berkeley ADEPT*

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*

<u>10:00 am 10:15 am</u>　　**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)*

<u>Wednesday, June 27, 2018</u>

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*

<u>10:00-10:15 am</u>　　**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*