



Spring 2024 IAB Meeting, May 10, 2024

UC Santa Cruz Engineering Event Center (E2-180) and Courtyard

[Invited Guests Please Register Here](#)

Zoom link will be provided to registered guests

Agenda Highlights:



**Alumni Highlight Talk: Memory-Centric
Energy-Efficient Computing Systems**
Rekha Pitchumani, Samsung



Pankaj Mehra



Matt Bromage



Mats Oberg

CXL Panel



Rekha Pitchumani



Kirk Bresniker

Detailed Agenda

(note: videos and slides are available to current IAB sponsors, please email cymccar@ucsc.edu for the link)

8:30 - 9:00 am Check-in and Breakfast

9:00-9:30 Welcome and Introductions and LIFE Forms [slides]

9:30-10:50 Project Updates 1

- Towards Emulating CXL-SSD with QEMU (Lokesh N. Jaliminche) [[abstract](#)]
- DASSL: Deployable Anonymity Systems with Security in the Long Term (Kyle Fredrickson) [[abstract](#)]
- Speculative Common Path Optimizations for Datacenter Workloads (Saba Jamilan) [[abstract](#)]
- Bede: Exploiting CXL-Memory for Job Scheduling (Pooneh Safayenikoo) [[abstract](#)]

10:50 –11:00 Coffee Break

11:00–11:30 Alumni Highlight Talk:

- Memory-Centric Energy-Efficient Computing Systems (Rekha Pitchumani, Samsung)

11:30–12:30 Project Updates 2:

- Lethe: Portable, Asynchronous Secure Deletion (Eugene Chou) [[abstract](#)]
- Application-Specified Memory Management (Allen Aboytes) [[abstract](#)]
- Towards Optimizing Search and Indexing In Vector Databases (Jayjeet Chakraborty) [[abstract](#)]

12:30–1:30 Lunch

1:30–2:30 Project Updates 3:

- High Throughput and One-Round-Trip RDMA for Disaggregated Memory Systems (Yi Liu) [[abstract](#)]
- MVVM: A WASI-empowered remote process resuming lightweight virtual machine (Yiwei Yang) [[abstract](#)]

- PPFaaS: Efficient Autoscaling in Serverless through Dynamic Pipelining (Yinzhe Zhang) [[abstract](#)]

2:30 –3:00 Coffee Break

3:00 – 4:00 Industry-Academia Panel: CXL Composable and Computational Memory Programming

Moderated by Pankaj Mehra (UCSC; Elephance)

Industry Panelists: Matt Bromage (Arm), Mats Oberg (Marvell), Rekha Pitchumani (Samsung), Kirk Bresniker (HP Labs)

4:00–4:15 LIFE Forms Review

4:15–4:45 Financial Overview, New Business and Feedback to Center Director (IAB Members only session)

4:45 - 6:30 Poster Session and Mixer at the Engineering Courtyard

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