

Morning Sessions

8:30 AM – 9:00 AM | Registration & Networking

Breakfast

- Check-in and badge distribution
- Light breakfast and coffee

9:00 AM – 9:30 AM | Opening Remarks

- Welcome: Dr. Tim Akers (Office of Academic Research)
- *The CSU and the Importance of Workforce Development*
- Brief Remarks: Dr. Frank Gomez (CSU Chancellor's Office)

9:30 AM – 10:00 AM | Keynote Address: The Future of the Semiconductor Industry

- Keynote Introduction – Dr. Youngmin Kim
- Speaker: Dr. Ajey Jacob (Univ. of Southern California)
- *Topic: Building the Semiconductor Workforce for the Next Era of Innovation*

10:00 AM – 10:15 AM | Break

10:15 AM – 10:45 AM | Workforce Development in Action

- Speaker: Dr. Partha Dutta (United Semiconductors, LLC)
- *Topic: Workforce in the Semiconductor Industry*

10:45 AM – 11:30 AM | Panel Discussion: Bridging the Gap – Academia and Industry Research

- Moderator: Dr. Ryan Keating
- Panelists:
 - Dr. Youngmin Kim (CSUSB)
 - Dr. Andrew Joe (UCR)
 - Henrick Wang (UCLA)
- *Topics: Current workforce challenges || Skills required for next-gen semiconductor jobs || Role of industry-academia partnerships*

11:30 AM – 12:15 PM | Fireside Chat: Workforce Growth and the Place of the University

- Speakers:
 - Brian Hagerty (P3 Innovation, IEEE)
 - Timothy Lee, President (IEEE USA)
 - Dr. Timothy Akers (CSUSB)
- *Topics: CHIPS Act & government initiatives || Funding for education & training programs || Public-private partnerships*

12:15 PM – 12:45 PM | Lunch & Presentation from TAP3D

Afternoon Sessions

12:50 PM – 1:15 PM | High-Performance Computing for Semiconductor Research

- Speaker: Dr. Nabeel Alzahrani (CSUSB)
- *Topic: AI & HPC to Accelerate Semiconductor Research and Innovation*

1:20 PM – 1:45 PM | 2D Materials and Semiconductor Development

- Speaker: Dr. Youngmin Kim (CSUSB)
- *Topic: 2D Quantum Materials and Semiconductors*

1:50 PM – 2:15 PM | Micro Nano Technology Education Center – A Case Study

- Speaker: Dr. Jared Ashcroft (Pasadena City College)
- *Topic: Micro Nano Technology/AR*

2:15 PM – 2:30 PM | Break

2:30 PM – 3:00 PM | Leveraging AI & Quantum for Next-Gen Workforce Training

- Speaker: Suresh Nair (INA Solutions)
- *Topic: Talent for quantum computing and AI-integrated hardware, ensuring future-ready engineers.*

3:05 PM – 3:35 PM | Student Experiences in Semiconductor Research

- Speakers: TBA
- *Topic: Understanding the impact of student research on workforce development.*

3:40 PM – 4:10 PM | Research and Workforce Convergence

- Speakers: NSF
- *Topic: Technology, Innovation, and Partnerships in the Semiconductor Workforce*

4:15 PM – 4:30 PM | Closing Remarks

- Speaker: Dr. Timothy Akers
- *Topic: Exciting announcements of next steps*