
Presenter(s): Sagar Karandikar

Talk ID:
15222

Talk Title: FireSim: A Scalable Platform for FPGA-Accelerated Simulation, Debugging, Profiling of RTL Designs¹

5 min pre: 1:25 pm **Talk Start:** 1:30 pm **Length:** 00:20:00 **End -5m:** 1:45 pm **End:** 1:50 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
- [] Ensure presenter's display appears on the projector and confidence monitors
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- [] Ask the presenter how they would like to be introduced and how to pronounce their name
- [] Ask the presenter if they would like time warnings, and if so, when they would like them

- [] When the presenter is ready, un-mute the microphone
- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Dan Petrisko

Talk ID:
15223

Talk Title: bsg_tag: A minimal open-source ASIC configuration bus

2

5 min pre: 1:55 pm **Talk Start:** 2:00 pm **Length:** 00:20:00 **End -5m:** 2:15 pm **End:** 2:20 pm

- [] Have a water bottle for ready for the presenter
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Presenter(s): Dejan Vucinic

Talk ID:
15224

3

Talk Title: OmniXtend: coherent scaleout over commodity fabrics

5 min pre: 2:55 pm **Talk Start:** 3:00 pm **Length:** 00:20:00 **End -5m:** 3:15 pm **End:** 3:20 pm

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Presenter(s): Nayiri Krzysztofowicz

Talk ID:
15225

4

Talk Title: Hammer: A Modular and Reusable Physical Design Flow Tool

5 min pre: 3:25 pm **Talk Start:** 3:30 pm **Length:** 00:20:00 **End -5m:** 3:45 pm **End:** 3:50 pm

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Presenter(s): Mike Urbach

Talk ID:
15226
5

Talk Title: CIRCT: Open Source Circuit IR Compilers and Tools

5 min pre: 3:55 pm **Talk Start:** 4:00 pm **Length:** 00:20:00 **End -5m:** 4:15 pm **End:** 4:20 pm

- [] Have a water bottle for ready for the presenter
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Presenter(s): Jack Koenig

Talk ID:
15227
6

Talk Title: Accelerating Chisel Development

5 min pre: 4:55 pm **Talk Start:** 5:00 pm **Length:** 00:20:00 **End -5m:** 5:15 pm **End:** 5:20 pm

- [] Have a water bottle for ready for the presenter
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- [] Introduce the presenter(s) and the talk

Presenter(s): Rick O'Connor

Talk ID:
15228

Talk Title: Open-Source HW Commercial Adoption

7

5 min pre: 5:25 pm **Talk Start:** 5:30 pm **Length:** 00:20:00 **End -5m:** 5:45 pm **End:** 5:50 pm

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-
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 - [] Introduce the presenter(s) and the talk

Presenter(s): Jose Renau

Talk ID:
15229
8

Talk Title: A UCSC Professor's path through Open-Source Hardware

5 min pre: 8:25 am **Talk Start:** 8:30 am **Length:** 00:20:00 **End -5m:** 8:45 am **End:** 8:50 am

- [] Have a water bottle for ready for the presenter
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- [] Introduce the presenter(s) and the talk

Presenter(s): Dustin Richmond

Talk ID:
15230
9

Talk Title: So You Want to be an Open Sourcerer?

5 min pre: 8:50 am **Talk Start:** 8:55 am **Length:** 00:20:00 **End -5m:** 9:10 am **End:** 9:15 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Scott BeamerTalk ID:
15232
40**Talk Title:** If You Build It, Who Will Come?**5 min pre:** 8:50 am **Talk Start:** 8:55 am **Length:** 00:20:00 **End -5m:** 9:10 am **End:** 9:15 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Matt GuthausTalk ID:
15233
41**Talk Title:** Yet Another UCSC Professor's path through Open-Source Hardware**5 min pre:** 9:15 am **Talk Start:** 9:20 am **Length:** 00:20:00 **End -5m:** 9:35 am **End:** 9:40 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Introduce the presenter(s) and the talk

Presenter(s): Jerry ZhaoTalk ID:
15234
42**Talk Title:** Tapeout-in-a-Semester: The Organization of Berkeley's Tapeout Course**5 min pre:** 9:40 am **Talk Start:** 9:45 am **Length:** 00:20:00 **End -5m:** 10:00 am **End:** 10:05 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Rachit NigamTalk ID:
15254
29**Talk Title:** Fearless Hardware Design**5 min pre:** 10:05 am **Talk Start:** 10:10 am **Length:** 00:20:00 **End -5m:** 10:25 am **End:** 10:30 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Graeme Smecher

Talk ID:
15235
10

Talk Title: Minimax - a Compressed-First, Microcoded RISC-V CPU

5 min pre: 10:55 am **Talk Start:** 11:00 am **Length:** 00:20:00 **End -5m:** 11:15 am **End:** 11:20 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Jason Eshraghian

Talk ID:
15236
11

Talk Title: Open Source Brain-Inspired Neuromorphic Software and Hardware

5 min pre: 11:25 am **Talk Start:** 11:30 am **Length:** 00:20:00 **End -5m:** 11:45 am **End:** 11:50 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Introduce the presenter(s) and the talk

Presenter(s): Joaquin Matres

Talk ID:
15255
-1

Talk Title: Gdsfactory, an Open Source python flow for circuit design, verification and validation

5 min pre: 12:52 pm **Talk Start:** 12:57 pm **Length:** 00:3:00 **End -5m:** 12:55 pm **End:** 1:00 pm

- [] Have a water bottle for ready for the presenter
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- [] Introduce the presenter(s) and the talk

Presenter(s): Wenting Zhang

Talk ID:
15237
12

Talk Title: RISu064 - An in-order non-blocking dual-issue RISC-V 64 processor

5 min pre: 12:55 pm **Talk Start:** 1:00 pm **Length:** 00:3:00 **End -5m:** 12:58 pm **End:** 1:03 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Vighnesh Iyer

Talk ID:
15238

Talk Title: SimCommand: A High-Performance RTL Testbench API with Fork/Join Support

13

5 min pre: 12:58 pm **Talk Start:** 1:03 pm **Length:** 00:3:00 **End -5m:** 1:01 pm **End:** 1:06 pm

- [] Have a water bottle for ready for the presenter
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 - [] Introduce the presenter(s) and the talk

Presenter(s): James Bowman

Talk ID:
15239

Talk Title: A radically simple 1-bit single-die "supercomputer"

14

5 min pre: 1:01 pm **Talk Start:** 1:06 pm **Length:** 00:3:00 **End -5m:** 1:04 pm **End:** 1:09 pm

- [] Have a water bottle for ready for the presenter
 - [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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 - [] Introduce the presenter(s) and the talk

Presenter(s): Oron PortTalk ID:
15240
15**Talk Title:** All Your OSS Codebase Are Belong To Us**5 min pre:** 1:04 pm **Talk Start:** 1:09 pm **Length:** 00:3:00 **End -5m:** 1:07 pm **End:** 1:12 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Introduce the presenter(s) and the talk

Presenter(s): Peter HerrmannTalk ID:
15241
16**Talk Title:** A Modular Approach to Variable Pipeline Depth Designs**5 min pre:** 1:07 pm **Talk Start:** 1:12 pm **Length:** 00:3:00 **End -5m:** 1:10 pm **End:** 1:15 pm

- [] Have a water bottle for ready for the presenter
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Presenter(s): Francisco WilkenTalk ID:
15242
17**Talk Title:** Open-source Hardware for Real-Time Applications**5 min pre:** 1:10 pm **Talk Start:** 1:15 pm **Length:** 00:3:00 **End -5m:** 1:13 pm **End:** 1:18 pm

- [] Have a water bottle for ready for the presenter
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- [] Introduce the presenter(s) and the talk

Presenter(s): Nikita KlimovTalk ID:
15243
18**Talk Title:** An open-source robotics applications interface**5 min pre:** 1:13 pm **Talk Start:** 1:18 pm **Length:** 00:3:00 **End -5m:** 1:16 pm **End:** 1:21 pm

- [] Have a water bottle for ready for the presenter
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Dylan KupshTalk ID:
15256
50**Talk Title:** DSAGEN: Democratizing Domain-Specific Accelerator Generation for FPGA Overlays**5 min pre:** 1:16 pm **Talk Start:** 1:21 pm **Length:** 00:3:00 **End -5m:** 1:19 pm **End:** 1:24 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Introduce the presenter(s) and the talk

Presenter(s): Matthew MichilotTalk ID:
15257
51**Talk Title:** Educational Framework for Functional Verification**5 min pre:** 1:19 pm **Talk Start:** 1:24 pm **Length:** 00:3:00 **End -5m:** 1:22 pm **End:** 1:27 pm

- [] Have a water bottle for ready for the presenter
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- [] Introduce the presenter(s) and the talk

Presenter(s): Ethan Sifferman

Talk ID:
15258
52

Talk Title: Using CVA6 in Architecture Education

5 min pre: 1:22 pm **Talk Start:** 1:27 pm **Length:** 00:3:00 **End -5m:** 1:25 pm **End:** 1:30 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Introduce the presenter(s) and the talk

Presenter(s): Alex Mykyta

Talk ID:
15244
19

Talk Title: Open tools for an open standard: Control/status register automation using SystemRDL

5 min pre: 1:25 pm **Talk Start:** 1:30 pm **Length:** 00:20:00 **End -5m:** 1:45 pm **End:** 1:50 pm

- [] Have a water bottle for ready for the presenter
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Andreas OlofssonTalk ID:
15245
20**Talk Title:** Goodbye Make, Hello SiliconCompiler!**5 min pre:** 1:55 pm **Talk Start:** 2:00 pm **Length:** 00:20:00 **End -5m:** 2:15 pm **End:** 2:20 pm

- [] Have a water bottle for ready for the presenter
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- [] When the presenter is ready, un-mute the microphone
- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Abraham GonzalezTalk ID:
15246
21**Talk Title:** Chipyard: An Open-Source RISC-V SoC Design Framework**5 min pre:** 2:55 pm **Talk Start:** 3:00 pm **Length:** 00:20:00 **End -5m:** 3:15 pm **End:** 3:20 pm

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
- [] Ensure presenter's display appears on the projector and confidence monitors
- [] Ask the presenter "Will there be laptop sound?" If so, ask AV to plug in and test sound
- [] Ask the presenter how they would like to be introduced and how to pronounce their name
- [] Ask the presenter if they would like time warnings, and if so, when they would like them

- [] When the presenter is ready, un-mute the microphone
- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Balram, Srinivasan Venkataramanan

Talk ID:
15247

Talk Title: SVA based Checker IP in Verilator

22

5 min pre: 3:25 pm **Talk Start:** 3:30 pm **Length:** 00:20:00 **End -5m:** 3:45 pm **End:** 3:50 pm

- [] Have a water bottle for ready for the presenter
 - [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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 - [] Make any special announcements (eg. Audience defrag, events later in the day)
 - [] Hit the Big Red Button. (On = recording starts)
 - [] Introduce the presenter(s) and the talk

Presenter(s): Pascal Pieper

Talk ID:
15248

Talk Title: Quality of Life with Virtual Prototypes - Open Source Tools in the Ecosystem of the RISC-V VP

23

5 min pre: 3:55 pm **Talk Start:** 4:00 pm **Length:** 00:20:00 **End -5m:** 4:15 pm **End:** 4:20 pm

- [] Have a water bottle for ready for the presenter
 - [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
 - [] Check that HDMI is plugged into the presenter's laptop
 - [] Ensure presenter's display appears on the projector and confidence monitors
 - [] Ask the presenter "Will there be laptop sound?" If so, ask AV to plug in and test sound
 - [] Ask the presenter how they would like to be introduced and how to pronounce their name
 - [] Ask the presenter if they would like time warnings, and if so, when they would like them
-
- [] When the presenter is ready, un-mute the microphone
 - [] Make any special announcements (eg. Audience defrag, events later in the day)
 - [] Hit the Big Red Button. (On = recording starts)
 - [] Introduce the presenter(s) and the talk

Presenter(s): Jerry Zhao

Talk ID:
15249
24

Talk Title: Constellation: A Open-Source Chisel Generator for Network-on-Chip Interconnects

5 min pre: 8:55 am **Talk Start:** 9:00 am **Length:** 00:20:00 **End -5m:** 9:15 am **End:** 9:20 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
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- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Matthew Ballance

Talk ID:
15250
25

Talk Title: SystemVerilog-Style Constraints and Functional Coverage in Python

5 min pre: 9:25 am **Talk Start:** 9:30 am **Length:** 00:20:00 **End -5m:** 9:45 am **End:** 9:50 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
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- [] Ask the presenter if they would like time warnings, and if so, when they would like them

- [] When the presenter is ready, un-mute the microphone
- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Matt Liberty

Talk ID:
15251
26

Talk Title: OpenROAD - Turning Designs into Optimized Silicon

5 min pre: 9:55 am **Talk Start:** 10:00 am **Length:** 00:20:00 **End -5m:** 10:15 am **End:** 10:20 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
- [] Ensure presenter's display appears on the projector and confidence monitors
- [] Ask the presenter "Will there be laptop sound?" If so, ask AV to plug in and test sound
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- [] When the presenter is ready, un-mute the microphone
- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): CHINH LE

Talk ID:
15253
28

Talk Title: Space - Opportunities, Challenges for Open Source Community

5 min pre: 10:55 am **Talk Start:** 11:00 am **Length:** 00:20:00 **End -5m:** 11:15 am **End:** 11:20 am

- [] Have a water bottle for ready for the presenter
- [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
- [] Check that HDMI is plugged into the presenter's laptop
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- [] Make any special announcements (eg. Audience defrag, events later in the day)
- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Aliaksei Chapyzhenka

Talk ID:
15252

Talk Title: Online Waveform viewer. Why do we need one?

27

5 min pre: 10:55 am **Talk Start:** 11:00 am **Length:** 00:20:00 **End -5m:** 11:15 am **End:** 11:20 am

- [] Have a water bottle for ready for the presenter
 - [] Ensure presenter has microphone and completed sound check (if not, poke AV team)
 - [] Check that HDMI is plugged into the presenter's laptop
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