
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 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

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

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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-
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 - Introduce the presenter(s) and the talk

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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-] Introduce the presenter(s) and the talk

Presenter(s): Jose Renau

Talk ID:
15229

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

8

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

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

9

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)
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Presenter(s): Scott Beamer

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

Presenter(s): Matt Guthaus

Talk 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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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Jerry Zhao

Talk 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 Nigam

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

Presenter(s): Joaquin Matres

Talk ID:
15255

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

-1

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

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

12

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

Presenter(s): Oron Port

Talk ID:
15240

Talk Title: All Your OSS Codebase Are Belong To Us

15

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 Herrmann

Talk ID:
15241

Talk Title: A Modular Approach to Variable Pipeline Depth Designs

16

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 Wilken

Talk ID:
15242

Talk Title: Open-source Hardware for Real-Time Applications

17

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 Klimov

Talk ID:
15243

Talk Title: An open-source robotics applications interface

18

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
 - 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): Dylan Kupsh

Talk 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
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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Matthew Michilot

Talk 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
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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

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 - Hit the Big Red Button. (On = recording starts)
 - Introduce the presenter(s) and the talk

Presenter(s): Andreas Olofsson

Talk 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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 - [] 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 Gonzalez

Talk 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)
- [] Check that HDMI is plugged into the presenter's laptop
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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): 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
 - [] 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): 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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-
- [] 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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-] 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): 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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-] 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)
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