
Presenter(s): Max Faramarzi

Talk ID:
15387
32

Talk Title: Application of AI-computer vision based software

5 min pre: 6:55 pm **Talk Start:** 7:00 pm **Length:** 00:3:00 **End -5m:** 6:58 pm **End:** 7:03 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): Ben Reynwar

Talk ID:
15388
33

Talk Title: Attempts to design hardware using dafny

5 min pre: 6:58 pm **Talk Start:** 7:03 pm **Length:** 00:3:00 **End -5m:** 7:01 pm **End:** 7:06 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): Prakash Shvetank

Talk ID:
15389
34

Talk Title: Accelerating Hardware Design with Custom GPTs

5 min pre: 7:01 pm **Talk Start:** 7:06 pm **Length:** 00:3:00 **End -5m:** 7:04 pm **End:** 7:09 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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 - [] Hit the Big Red Button. (On = recording starts)
 - [] Introduce the presenter(s) and the talk

Presenter(s): John Goodenough

Talk ID:
15390
35

Talk Title: OSHHISS Open Source for Hybrid Hetrogenous Integrated Semiconductor Systems

5 min pre: 7:04 pm **Talk Start:** 7:09 pm **Length:** 00:3:00 **End -5m:** 7:07 pm **End:** 7:12 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): Noah Moroze

Talk ID:
15391
36

Talk Title: Clean up your EDA flows with tclint

5 min pre: 7:07 pm **Talk Start:** 7:12 pm **Length:** 00:3:00 **End -5m:** 7:10 pm **End:** 7:15 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): Rachit Nigam

Talk ID:
15392
37

Talk Title: Building an Ecosystem for Hardware Generators

5 min pre: 7:10 pm **Talk Start:** 7:15 pm **Length:** 00:3:00 **End -5m:** 7:13 pm **End:** 7:18 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): Max Aalto

Talk ID:
15393
38

Talk Title: CitizenSilicon: towards an open-source Czochralski furnace for Si growth

5 min pre: 7:13 pm **Talk Start:** 7:18 pm **Length:** 00:3:00 **End -5m:** 7:16 pm **End:** 7:21 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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-] 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): Wenting Zhang

Talk ID:
15356

Talk Title: Caster: An Open-source E-Ink Controller

1

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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-
- 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): Anish Singhani

Talk ID:
15357

Talk Title: Teaching Modern EDA using a Tapeout-Centric University Course

2

5 min pre: 9:35 am **Talk Start:** 9:40 am **Length:** 00:20:00 **End -5m:** 9:55 am **End:** 10:00 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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-
- 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): Keno Fischer

Talk ID:
15358

Talk Title: CedarEDA for open source silicon

3

5 min pre: 10:15 am **Talk Start:** 10:20 am **Length:** 00:20:00 **End -5m:** 10:35 am **End:** 10:40 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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- 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): Nazerke Turtayeva

Talk ID:
15359

Talk Title: Cohort: Software-Oriented Acceleration for You, Me, and Our Heterogeneous SoCs

4

5 min pre: 10:35 am **Talk Start:** 10:40 am **Length:** 00:20:00 **End -5m:** 10:55 am **End:** 11:00 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): Mert Side

Talk ID:
15360

Talk Title: Towards xBGAS on CHERI: Examining the Benefits of a Secure Distributed Architecture

5

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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- 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): Jie Li

Talk ID:
15361

Talk Title: Towards Cycle-accurate Simulation of xBGAS

6

5 min pre: 12:15 pm **Talk Start:** 12:20 pm **Length:** 00:20:00 **End -5m:** 12:35 pm **End:** 12:40 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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-
- 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): Miriam Leeser

Talk ID:
15362

7

Talk Title: Artifact Evaluation for the Field Programmable Gate Array Community

5 min pre: 12:35 pm **Talk Start:** 12:40 pm **Length:** 00:20:00 **End -5m:** 12:55 pm **End:** 1:00 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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- 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): Jack Koenig

Talk ID:
15363

8

Talk Title: Chisel 6 and beyond

5 min pre: 12:55 pm **Talk Start:** 1:00 pm **Length:** 00:20:00 **End -5m:** 1:15 pm **End:** 1:20 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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-
- 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): Tobias Strauch

Talk ID:
15364
9

Talk Title: MRPHS: Enabling Transaction-level Deductive Formal Verification Through PDVL

5 min pre: 1:15 pm **Talk Start:** 1:20 pm **Length:** 00:20:00 **End -5m:** 1:35 pm **End:** 1:40 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): Vijay Janapa Reddi, Shvetank Prakash

Talk ID:
15365
10

Talk Title: Architecture 2.0: Toward Open Source Foundation Models and Datasets for Hardware Design

5 min pre: 2:15 pm **Talk Start:** 2:20 pm **Length:** 00:20:00 **End -5m:** 2:35 pm **End:** 2:40 pm

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

Presenter(s): Rice Shelley

Talk ID:
15366

Talk Title: Riding The Wave: Building Wave Pipelines in FPGAs

11

5 min pre: 2:35 pm **Talk Start:** 2:40 pm **Length:** 00:20:00 **End -5m:** 2:55 pm **End:** 3:00 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): Ethan Sifferman

Talk ID:
15367

Talk Title: Giving Students A Byte of Open-Source: Advancing Hardware Education

12

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

Presenter(s): Rishiyur Nikhil

Talk ID:
15368

13

Talk Title: Open-source resources for learning the Bluespec HL-HDLs

5 min pre: 3:35 pm **Talk Start:** 3:40 pm **Length:** 00:20:00 **End -5m:** 3:55 pm **End:** 4:00 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): Matt Ballance

Talk ID:
15369

14

Talk Title: PyHDL-IF: An Easy-to-Use Python/HDL Cross-Calling Interface

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)
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- [] When the presenter is ready, un-mute the microphone
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 - [] Hit the Big Red Button. (On = recording starts)
 - [] Introduce the presenter(s) and the talk

Presenter(s): Karol Gugala

Talk ID:
15370

Talk Title: Open source RTL verification with Verilator

15

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

Presenter(s): Hugo McNally

Talk ID:
15371

Talk Title: Sonata: A development platform to enable exploring the use of CHERI for embedded applications 16

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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- [] 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): Aayushi Gautam

Talk ID:
15372

Talk Title: Transparent Checkpointing for Fault Tolerance in RISC-V

17

5 min pre: 9:35 am **Talk Start:** 9:40 am **Length:** 00:20:00 **End -5m:** 9:55 am **End:** 10:00 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): Jose Renau

Talk ID:
15373

Talk Title: HDLAgent, Enhancing Hardware Language in the age of LLMs

18

5 min pre: 10:15 am **Talk Start:** 10:20 am **Length:** 00:20:00 **End -5m:** 10:35 am **End:** 10:40 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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- [] 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): Frans Skarman

Talk ID:
15374

Talk Title: Spade: An HDL Inspired By Modern Software Languages

19

5 min pre: 10:35 am **Talk Start:** 10:40 am **Length:** 00:20:00 **End -5m:** 10:55 am **End:** 11:00 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): Steven Herbst

Talk ID:
15375

Talk Title: Switchboard: Calling All Hardware Models

20

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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-] When the presenter is ready, un-mute the microphone
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-] Hit the Big Red Button. (On = recording starts)
-] Introduce the presenter(s) and the talk

Presenter(s): Luca Bertaccini

Talk ID:
15376
21

Talk Title: From an Open-Source ISA to Open-Source HW to Open-Source Silicon

5 min pre: 12:15 pm **Talk Start:** 12:20 pm **Length:** 00:20:00 **End -5m:** 12:35 pm **End:** 12:40 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): Troy Benjegerdes

Talk ID:
15377
22

Talk Title: Open Source Hardware: Hacking Silicon for Fun (instead of profit)

5 min pre: 12:35 pm **Talk Start:** 12:40 pm **Length:** 00:20:00 **End -5m:** 12:55 pm **End:** 1:00 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

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

Presenter(s): Steve Hoover

Talk ID:
15378
23

Talk Title: A History of TL-Verilog Google Summer of Code Projects under FOSSi Foundation

5 min pre: 12:55 pm **Talk Start:** 1:00 pm **Length:** 00:20:00 **End -5m:** 1:15 pm **End:** 1:20 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
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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): Andreas Olofsson

Talk ID:
15379
24

Talk Title: UMI: Universal Memory Interface

5 min pre: 1:15 pm **Talk Start:** 1:20 pm **Length:** 00:20:00 **End -5m:** 1:35 pm **End:** 1:40 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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-
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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): Alan Mishchenko

Talk ID:
15380
25

Talk Title: ABC: The Way It Should Have Been Designed

5 min pre: 2:15 pm **Talk Start:** 2:20 pm **Length:** 00:20:00 **End -5m:** 2:35 pm **End:** 2:40 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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- [] Hit the Big Red Button. (On = recording starts)
- [] Introduce the presenter(s) and the talk

Presenter(s): Ajeetha Kumari Venkatesan

Talk ID:
15381
26

Talk Title: BYOL (Build Your Own Linter) – UVMLint for IEEE-UVM core code development

5 min pre: 2:35 pm **Talk Start:** 2:40 pm **Length:** 00:20:00 **End -5m:** 2:55 pm **End:** 3:00 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): Olof Kindgren

Talk ID:
15382
27

Talk Title: Beyond EDA lies Edalize

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): Jabeom Koo

Talk ID:
15383
28

Talk Title: RF Front-end receiver design for 2.4GH/5GHz WiFi application

5 min pre: 3:35 pm **Talk Start:** 3:40 pm **Length:** 00:20:00 **End -5m:** 3:55 pm **End:** 4:00 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): Tim Edwards

Talk ID:
15384
29

Talk Title: CACE Study: Open source analog and mixed-signal design flow

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
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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): Frank Vater

Talk ID:
15385
30

Talk Title: IHP Open Source PDK: Announcement, Setup, Current State and Experiences, and look ahead

5 min pre: 4:15 pm **Talk Start:** 4:20 pm **Length:** 00:20:00 **End -5m:** 4:35 pm **End:** 4:40 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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-
- [] 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): Pat Deegan

Talk ID:
15386

Talk Title: Tiny Tapeout: custom silicon open to all

31

5 min pre: 4:35 pm **Talk Start:** 4:40 pm **Length:** 00:20:00 **End -5m:** 4:55 pm **End:** 5:00 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