

**IF07 Electronics/ASICs:  
Flashtalks workshop**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and Introduction

*Thursday, 30 July 2020 13:00 (10 minutes)*

**Presenter:** CARINI, Gabriella

Contribution ID: 2

Type: **not specified**

## **Early career - Opportunities and liaisons**

*Thursday, 30 July 2020 13:10 (7 minutes)*

**Presenters:** IAKOVIDIS, George (BNL); BUTALLA, Stephen (Florida Institute of Technology (US))

Contribution ID: 3

Type: **not specified**

## Quantum sensors

*Thursday, 30 July 2020 13:31 (7 minutes)*

**Presenter:** CECIL, Tom (Argonne)

**Session Classification:** Readout needs

Contribution ID: 4

Type: **not specified**

## Photon detector

*Thursday, 30 July 2020 13:38 (7 minutes)*

**Presenter:** ESTRADA VIGIL, Juan (FNAL)

**Session Classification:** Readout needs

Contribution ID: 5

Type: **not specified**

## 21cm & RF readout

*Thursday, 30 July 2020 13:45 (7 minutes)*

**Presenter:** O'CONNOR, Paul

**Session Classification:** Readout needs

Contribution ID: 6

Type: **not specified**

## **Kiloton Scale LArTPC Pixel Based readout**

*Thursday, 30 July 2020 13:17 (7 minutes)*

**Presenter:** ASAADI, Jonathan (University of Texas at Arlington)

**Session Classification:** Cryogenics

Contribution ID: 7

Type: **not specified**

## Quantum sensor readout

*Thursday, 30 July 2020 13:24 (7 minutes)*

**Presenters:** SUZUKI, Aritoki (Lawrence Berkeley National Laboratory); GRACE, Carl (Lawrence Berkeley National Laboratory)

**Session Classification:** Cryogenics

Contribution ID: 8

Type: **not specified**

## **High precision, high dynamic range readout (eg. calo)**

*Thursday, 30 July 2020 13:52 (7 minutes)*

**Presenter:** ANDEEN, Timothy (Columbia University)

Contribution ID: 9

Type: **not specified**

## Si tracking detector readout

*Thursday, 30 July 2020 13:59 (7 minutes)*

**Presenter:** HEIM, Timon (Lawrence Berkeley National Lab)

Contribution ID: **10**

Type: **not specified**

## **Blocks for SOC**

*Thursday, 30 July 2020 14:06 (7 minutes)*

**Presenter:** NEWCOMER, Mitch (U.Penn)

Contribution ID: 12

Type: **not specified**

## **Femtosec timing / optimal signal extraction / ULpower GHz transient recording**

*Thursday, 30 July 2020 14:20 (7 minutes)*

**Presenter:** VARNER, Gary (University of Hawaii)

Contribution ID: **13**

Type: **not specified**

## Optical links

*Thursday, 30 July 2020 14:27 (7 minutes)*

**Presenter:** YE, Jingbo (Southern Methodist University)

Contribution ID: 14

Type: **not specified**

## Event driven electronics

*Thursday, 30 July 2020 14:34 (7 minutes)*

**Presenter:** MANOHAR, Rajit

Contribution ID: 15

Type: **not specified**

## **Low Power Techniques for "on detector" data processing**

*Thursday, 30 July 2020 14:41 (7 minutes)*

**Presenter:** GRACE, Carl (Lawrence Berkeley National Laboratory)

**Session Classification:** On detector (sustainable) processing

Contribution ID: 16

Type: **not specified**

## **Smart Detector with on-chip Neuromorphic Computing Capabilities**

*Thursday, 30 July 2020 14:48 (7 minutes)*

**Presenter:** MIRYALA, Sandeep

**Session Classification:** On detector (sustainable) processing

Contribution ID: 17

Type: **not specified**

## **AI on chip: Algorithm to Accelerator**

*Thursday, 30 July 2020 14:55 (7 minutes)*

**Presenter:** Dr FAHIM, Farah (FERMILAB)

**Session Classification:** On detector (sustainable) processing

Contribution ID: **18**

Type: **not specified**

## **Workforce development for digital logic**

*Thursday, 30 July 2020 15:02 (7 minutes)*

**Presenter:** NISHIMURA, Kurtis (University of Hawaii)

**Session Classification:** Engagement

Contribution ID: **19**

Type: **not specified**

## **Internships**

*Thursday, 30 July 2020 15:09 (7 minutes)*

**Presenter:** HOFF, Jim (Fermilab)

**Session Classification:** Engagement

Contribution ID: **20**

Type: **not specified**

## HEPIC

*Thursday, 30 July 2020 15:16 (7 minutes)*

**Presenter:** HOFF, Jim (Fermilab)

**Session Classification:** Engagement

Contribution ID: 21

Type: **not specified**

## Discussion

*Thursday, 30 July 2020 15:23 (32 minutes)*

Contribution ID: 22

Type: **not specified**

## Closeout

*Thursday, 30 July 2020 15:55 (5 minutes)*

Contribution ID: 23

Type: **not specified**

## **Precision Position and Timing detector R&D and 3DIC technology**

*Thursday, 30 July 2020 14:13 (7 minutes)*

**Presenter:** LIU, Ted (Fermilab)