

## **Session Program**

**9-13 Jul 2017**



## **CEC-ICMC 2017 - Abstracts, Timetable and Presentations**

### ***M3OrF - Focused Session: Cryogenic Microelectronics & Materials II***

Monona Terrace Community and Convention Center  
Madison, Wisconsin USA

## Tuesday 11 July

14:00

### M3OrF - Focused Session: Cryogenic Microelectronics & Materials II

**Session** | **Location:** Hall of Ideas - EH | **Conveners:** Dr Charles Rong, Dr Deepnarayan Gupta

14:00–14:30

#### **[Invited] Advances in Superconducting Device Fabrication from Nanowire Detectors to Large-Scale Integrated Circuits**

**Speaker**

Dr Eric Dauler

14:30–15:00

#### **[Invited] Development of Current Biased Superconducting Stripline Detectors and Signal Processing Circuits Compatible with Standard SFQ Foundry Processes**

**Speaker**

Dr Ali Bozbey

15:00–15:30

#### **[Invited] Multi-pixel superconducting nanowire single-photon detectors with cryogenic signal processors using single-flux-quantum circuits**

**Speaker**

Dr Terai Hirota

15:30–15:45

#### **Digital Readout of Cryogenic Detectors using Superconductor Integrated Circuits**

**Speaker**

Dr Timur Filippov

15:45–16:00

#### **A 4 K Tactical Cryocooler Using Reverse-Brayton Machines**

**Speaker**

Dr Mark Zagarola

16:00