

**2017 International  
Germanium Detector  
Technology Workshop**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Welcome

*Monday, 4 December 2017 08:30 (15 minutes)*

**Presenters:** POON, Alan; VETTER, Kai

**Session Classification:** Morning 1

Contribution ID: 1

Type: **not specified**

## **HPGe Detectors at mK temperature for DM search**

*Monday, 4 December 2017 08:45 (30 minutes)*

**Presenter:** BILLARD, Julien (IPN Lyon)

**Session Classification:** Morning 1

Contribution ID: 2

Type: **not specified**

## **Probing SM and BSM Physics with Germanium Ionization Detectors**

*Monday, 4 December 2017 09:15 (30 minutes)*

**Presenter:** WONG, Henry (Academia Sinica)

**Session Classification:** Morning 1

Contribution ID: 3

Type: **not specified**

## **Ge detectors for neutrinoless double beta decay searches**

*Monday, 4 December 2017 09:45 (30 minutes)*

**Presenter:** JANICSKO, Jozsef (IKZ Berlin)

**Session Classification:** Morning 1

Contribution ID: 4

Type: **not specified**

## **Mercury, Mars, and the Asteroid Belt: Germanium-Based Gamma-Ray Spectrometers as an Emerging Tool for Planetary Science**

*Monday, 4 December 2017 11:45 (30 minutes)*

**Presenter:** BURKS, Morgan (LLNL)

**Session Classification:** Morning 2

Contribution ID: 5

Type: **not specified**

## **The Compton Spectrometer and Imager: Ge detectors for gamma-ray astrophysics**

*Monday, 4 December 2017 11:15 (30 minutes)*

**Presenter:** TOMSICK, John (SSL/UCB)

**Session Classification:** Morning 2

Contribution ID: 6

Type: **not specified**

## **Decay Spectroscopy and other Applications at FRIB**

*Monday, 4 December 2017 12:15 (30 minutes)*

**Presenter:** LIDDICK, Sean (NSCL)

**Session Classification:** Morning 2



Contribution ID: 7

Type: **not specified**

## Tracking and imaging detector arrays

*Monday, 4 December 2017 10:45 (30 minutes)*

**Presenter:** BOSTON, Andy (Liverpool)

**Session Classification:** Morning 2

Contribution ID: 8

Type: **not specified**

## **3-D Gamma-Ray Imaging with HPGe Detectors**

*Monday, 4 December 2017 13:45 (30 minutes)*

**Presenter:** BARNOWSKI, Ross (LBNL/UCB)

**Session Classification:** Afternoon 1

Contribution ID: 9

Type: **not specified**

## **HPGe detector development at Mirion-Canberra**

*Monday, 4 December 2017 14:15 (20 minutes)*

**Presenter:** HABY, Taylor

**Session Classification:** Afternoon 1

Contribution ID: **10**

Type: **not specified**

## **HPGe detector development at AMETEK/ORTEC**

*Monday, 4 December 2017 14:35 (20 minutes)*

**Presenter:** ROTH, Elaine (AMETEK)

**Session Classification:** Afternoon 1

Contribution ID: 11

Type: **not specified**

## **3-min rapid presentations**

*Monday, 4 December 2017 14:55 (30 minutes)*

**Presenter:** POSTER PRESENTERS

**Session Classification:** Afternoon 1

Contribution ID: 12

Type: **not specified**

## **Phonon-induced plasma expansion in cryogenic Ge detectors: evidences and consequences for charge collection**

*Monday, 4 December 2017 15:55 (30 minutes)*

**Presenter:** BRONIATOWSKI, Alex (Orsay)

**Session Classification:** Afternoon 2

Contribution ID: 13

Type: **not specified**

## **Minimizing Charge Leakage through Ge/Insulator/Metal interfaces**

*Monday, 4 December 2017 16:45 (30 minutes)*

**Presenter:** MIRABOLFATHI, Nader (Texas A&M)

**Session Classification:** Afternoon 2

Contribution ID: 14

Type: **not specified**

## **Athermal Phonon Thermalization**

*Monday, 4 December 2017 16:25 (20 minutes)*

**Presenter:** PYLE, Matt (UCB)

**Session Classification:** Afternoon 2



Contribution ID: 15

Type: **not specified**

## **Growth and Characterization of Large HPGe crystals**

*Monday, 4 December 2017 17:15 (20 minutes)*

**Presenter:** WANG, Guojian (USD)

**Session Classification:** Afternoon 2

Contribution ID: 16

Type: **not specified**

## **Cosmogenic activation of Ge**

*Monday, 4 December 2017 17:35 (20 minutes)*

**Presenter:** WHITE, Brandon (LANL)

**Session Classification:** Afternoon 2

Contribution ID: 17

Type: **not specified**

## **Single-crystalline germanium nanomembrane photodetectors**

*Tuesday, 5 December 2017 08:30 (30 minutes)*

**Presenter:** MA, Zhenqiang (UW-Madison)

**Session Classification:** Morning 1

Contribution ID: **18**

Type: **not specified**

## **Large inverted point-contact detectors**

*Tuesday, 5 December 2017 09:00 (30 minutes)*

**Presenter:** RADFORD, David (ORNL)

**Session Classification:** Morning 1

Contribution ID: 19

Type: **not specified**

## **Characterization of inverted coaxial segmented NPC detectors**

*Tuesday, 5 December 2017 09:30 (25 minutes)*

**Presenter:** SALATHE, Marco (LBNL)

**Session Classification:** Morning 1

Contribution ID: 20

Type: **not specified**

## **Pulse Simulation and Bayesian Pulse Fitting**

*Tuesday, 5 December 2017 09:55 (25 minutes)*

**Presenter:** SHANKS, Ben (ORNL)

**Session Classification:** Morning 1

Contribution ID: 21

Type: **not specified**

## **Optimization of Amorphous Germanium Electrical Contacts on High Purity Germanium Radiation Detectors**

*Tuesday, 5 December 2017 10:40 (30 minutes)*

**Presenter:** AMMAN, Mark

**Session Classification:** Morning 2

Contribution ID: 22

Type: **not specified**

## **R&D on passivation techniques and novel contacts in HPGe detectors**

*Tuesday, 5 December 2017 11:10 (30 minutes)*

**Presenter:** MAGGIONI, Gianluigi (LNL-INFN)

**Session Classification:** Morning 2



Contribution ID: 23

Type: **not specified**

## **Study of HPGe surface properties and temperature dependence at MPI**

*Tuesday, 5 December 2017 14:40 (20 minutes)*

**Presenter:** ZSIGMOND, Anna Julia (MPP)

**Session Classification:** Afternoon 1

Contribution ID: 24

Type: **not specified**

## **Low thermal loss cryostats for electrically cooled multidetector systems**

*Tuesday, 5 December 2017 15:00 (20 minutes)*

**Presenter:** KOJOUHAROV, Ivan (GSI)

**Session Classification:** Afternoon 1

Contribution ID: 25

Type: **not specified**

## **ORTEC solutions for specialty detector market**

*Tuesday, 5 December 2017 15:20 (15 minutes)*

**Presenter:** GEURKOV, Gregor (AMETEK)

**Session Classification:** Afternoon 1

Contribution ID: 26

Type: **not specified**

## **Canberra cooling technology and system designed for unusual environment**

**Presenter:** PIRARD, Benoit (Mirion)

Contribution ID: 27

Type: **not specified**

## **Calculation of Ge crystal form factors for ~eV energy transfer**

*Tuesday, 5 December 2017 16:45 (25 minutes)*

**Presenter:** GRIFFIN, Sinead (UCB/LBNL)

**Session Classification:** Afternoon 2

Contribution ID: 28

Type: **not specified**

## **Quenching Factors in High Purity Germanium Detectors**

*Tuesday, 5 December 2017 17:10 (25 minutes)*

**Presenter:** BARBEAU, Phil (Duke)

**Session Classification:** Afternoon 2

Contribution ID: 29

Type: **not specified**

## **Ultra-low temperature, ultra-low noise readouts**

*Tuesday, 5 December 2017 15:55 (25 minutes)*

**Presenter:** BARTON, Paul (LBNL)

**Session Classification:** Afternoon 2

Contribution ID: **30**

Type: **not specified**

## **HEMT-based charge preamplifiers**

*Tuesday, 5 December 2017 16:20 (25 minutes)*

**Presenter:** PHIPPS, Arran (Stanford)

**Session Classification:** Afternoon 2



Contribution ID: **31**

Type: **not specified**

## **PIRE-GEMADARC**

*Tuesday, 5 December 2017 17:35 (15 minutes)*

**Presenter:** MEI, Dong-ming (USD)

**Session Classification:** Afternoon 2