Foreword

The 2016 U.S. Workshop on the Physics and Chemistry of II–VI Materials (a.k.a. U.S. II–VI Workshop) was held at the Sheraton Inner Harbor Hotel, in Baltimore, Maryland, USA, on October 17–20, 2016. This workshop was the 35th in the series, which began in October 1981 in Minneapolis, Minnesota, USA. The first meeting was dedicated to the scientific and generic technological issues of importance to mercury cadmium telluride and its applications in infrared imaging. The workshop interest has now evolved to include all II–VI materials having application in a variety of emitters and detectors. Since 1989, the workshop expanded its scope to include related II–VI materials such as CdTe and CdZnTe which are used as substrates for epitaxial HgCdTe growth, as well as for gamma ray detectors and solar cells, and for other electro-optical II–VI materials such as ZnO and ZnMgO.

The 2016 U.S. II–VI workshop offered a venue for discussions for 3 days, bringing together 41 contributed and 12 invited talks along with a keynote speaker. Nearly half of these presentations are published in this volume of *Journal of Electronic Materials* (JEM), all of which have been carefully peer-reviewed. The 2016 workshop co-chairs were Dr. Ishwara Bhat of the Rensselaer Polytechnic Institute and Dr. Pradip Mitra of DRS Technologies, Inc. Alicia Waldron and Samantha Tola of the Palisades Convention Management, Inc. and Paola Caicedo of the University of Illinois at Chicago coordinated the workshop arrangements and on-site activities, while Yesim Anter of the EPIR Technologies, Inc.* coordinated the editorial arrangements and proceedings.

Dr. Larry Schuette of the Office of the Naval Research gave the keynote speech on “Naval S&T: The Innovation Engine”. Several interesting papers were presented in subject areas of solar cells, CdZnTe substrates, gamma ray detectors, type-II strained layer superlattices, devices, processing, characterization, impurity doping and defects in II–VI materials.

In 2016, the “William E. Spicer-Thomas N. Casselman Award” for best student paper was presented to Elizabeth LeBlanc of the Texas State University for her presentation on “Controlling the Magnesium Composition in CdTe/CdMgTe Heterostructures”. She is advised by Professor Tom Meyers. The award acknowledges excellence in student paper presentations. For more information about the award and previous recipients, please visit our website: www.ii-viworkshop.org.

The U.S. II–VI Workshop Committee would like to thank the following organizations for their continued sponsorship:

- U.S. Army RDECOM CERDEC Night Vision & Electronic Sensors Directorate.
- U.S. Army Research Laboratory.
- U.S. Army SMDC.
- U.S. Navy Electro-Optics Center, Penn State University.
- Office of Naval Research.
- Air Force Research Laboratory.
- Army Research Office.
- The Minerals, Metal & Materials Society.

The American Physical Society has endorsed this workshop.

The proceedings of the original workshops (from 1981 to 1991) have been published in the *Journal of Vacuum Science and Technology*. Papers from the workshop from 1992 onward appear in special issues of the *JEM*.

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We acknowledge the session organizers for arranging prompt review of the papers and thank the authors for choosing this forum for presenting their results. The 2017 U.S. II–VI workshop is going to be held at the Embassy Suites Chicago Downtown-Lakefront Hotel, Chicago, Illinois, USA, on October 31–November 2, 2017.

Workshop website: <http://www.II-viworkshop.org/>.

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