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James Beletic
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- 11 IR Detectors II
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Introduction

Astronomical Telescopes and Instrumentation once again combined the visible, infrared, and high energy detector sessions into a single conference; High Energy, Optical, and Infrared Detectors for Astronomy VII. This combination resulted in a rich variety of applications and detectors being presented by the community. This combination also provided an excellent overview of the leverage of detector technologies and methods across the photon energy spectrum, where many of the detection techniques and methodologies are common. Sessions were also held into associated readout electronics and radiation damage which are important for many applications.

Over ninety papers were presented over four days and attendance was high through the conference sometimes exceeding 160 attendees. This reflects on the excellence of presented material, the presenting authors, and the relevance of the conference to present-day astronomy.

The presentations covered detector performance, both theoretical, simulations and experimental, detectors in instruments and camera systems, sophisticated new controllers and software, packaging of very large detector mosaics, radiation testing, and the future direction of sensor technologies.

Over the years, proceedings like these have been an invaluable output and record of SPIE meetings. They represent a current snapshot of detector technologies. This year's conference had several talks on CCDs covering optical and x-ray bands, and included a session on electron-multiplying CCD technology and applications. This year we saw an increase in the number of contributions detailing the continued development and improvement of both CMOS imagers, for the optical, and with new developments for their use in x-ray detection. Many results were "hot off the press", with some being taken just days before the conference, which helps maintain the vitality of these events. We hope the detailed information presented here will contribute to further advancements in all detector technologies.

Such a successful meeting could not have taken place without the support and help of many people, especially all of you whose names appear on the papers collected here. We acknowledge the valuable advice and assistance for structuring the conference and chairing the sessions given to us by the Program Committee and would especially like to thank Jim Beletic, Gert Finger, Paul Jorden, Peter Verhoeve, Michael Hoenk and Hiroshi Tsunemi for their assistance in chairing some of the sessions.

Finally, we hope that you enjoy the written proceedings as an accurate record of the conference, and look forward to seeing you in Austin in 2018.

**Andrew D. Holland
James Beletic**

