

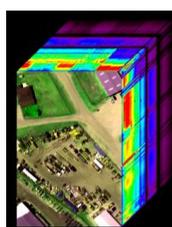
Detection of Visible and Infrared Light for Scientific Research

Dr. James Beletic, President, Teledyne Imaging Sensors

Abstract: Electromagnetic radiation (light) is the primary messenger of information in the universe and detection of light is critical to many areas of scientific research. This is especially true in fields where “remote sensing” of distant objects is the only way to study those objects, such as Earth observation from airborne and space-based instrumentation, astronomy (from ground and space), and planetary exploration.

This talk presents examples of the instrumentation used in scientific research, and a high level introduction to the physics of detectors for visible and infrared light. Since Teledyne is a leader in high performance detectors, many of the forefront facilities and missions utilize Teledyne’s detectors. This talk presents some of these facilities / missions and the challenges involved in making detectors that are reliable in a space environment.

This talk is prepared so as to be understandable by everyone, no matter a person’s age, education level or type of employment, but with enough technical information to interest professional engineers and scientists.



About our speaker:



Dr. James Beletic is President of Teledyne Imaging Sensors (TIS), which is a world leader in the development and production of high-performance focal plane arrays. Dr. Beletic has over 35 years of experience in instrumentation, with specialization in visible and infrared image sensor technologies.

His career is a unique combination of international work experience that includes scientific positions at major research centers (Harvard University, MIT Lincoln Laboratory, Georgia Tech Research Institute), leadership positions at the world’s foremost astronomical observatories (European Southern Observatory, Keck Observatory), and senior level management of an industry leader in infrared sensors (Teledyne).

Dr. Beletic received his Ph.D. and S.M. in applied physics from Harvard University and B.S. in physics from Fairfield University. Asteroid 14669 is named after him in recognition of his contributions to astronomy.

Wednesday, November 14th, 2018

Reception: 6:00 pm; Dinner: 7:00 pm; Talk: 8:00 pm

Meal: Buffet Style

Dinners: \$35 for registration by Nov. 9, \$40 after
(OSSC Student Members \$10 by Nov. 9, \$20 after)

Venue:
Eden Garden
175 E Holly St
Pasadena, CA, 91103

On-line Registration: www.osscc.org or
Contact: Alex Small
Events@osscc.org, 240-672-7639