

## Optical Payloads for telescopes & instruments: Innovation & Creativity.

Kevin Romero, OPIR Systems Architecture, Northrop Grumman

**Abstract:** Key parts of this presentation are from Kevin's "Fundamental Principles of Creativity". The talk will focus on methods to break psychological inertia created by our societal norms, history and our own engineering experience. The tools presented can be applied to any problem, to help develop unique solutions. Although Kevin will focus on Creativity in Engineering, the principles are general and apply to diverse subjects like science and art. Several examples of the use of these principles to break technological roadblocks in optical instrument design will be reviewed.

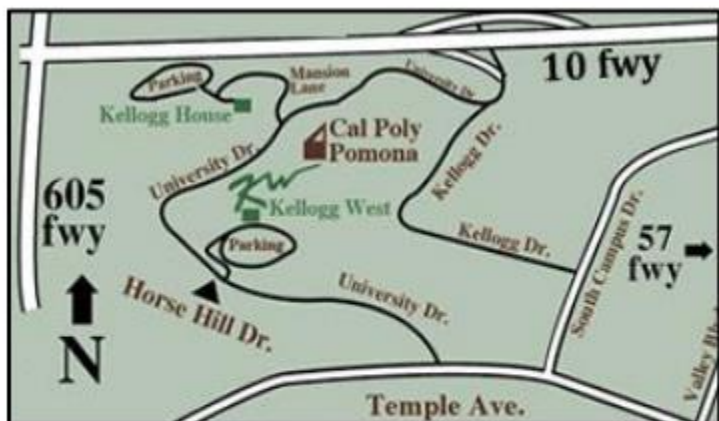
**About our Speaker:** Kevin J. Romero is Advanced Programs Principal Systems Architect and Performance Lead for the Proto-type Infrared Payload Project, with Northrop Grumman Aerospace Systems in Azusa, California. He is a recognized expert in the system engineering of space-based imaging and remote sensing systems and has led the Los Angeles Chapter of IEEE Geo-Science Remote Sensing Society for the last four years.



His 33 years of experience is broadly based and includes infrared and visible optical space systems test, test systems development, EO system design and orbital operations and anomaly resolution for space-based systems. Kevin has developed over 20 space based EO payload concepts throughout his career.

### OSSC Business Topics:

1. OSSC Project 2025
2. Volunteering with the OSSC
3. Optics Outreach Activities
4. Educational Programs



#### Directions:

Enter campus from Temple Avenue, turning right on University. Once on campus, turn right at sign for Kellogg West, and go up the hill. Parking is free in the Kellogg West lot.

### Wednesday Nov. 13th, 2019

Reception: 6:00 – 7:00 pm  
 Dinner: 7:00 - 8:00pm  
 OSSC Business: 7:30 – 8:00 pm  
 Presentation 8:00 – 9:00 pm

Members: \$35 by 8 November, \$45 after  
 Non-Members: \$40 by 8 November, \$50 after  
 OSSC Student Members: \$10 by 8 November, \$20 after

### Kellogg West Conference Center Cal Poly Pomona Campus

3801 Temple, Pomona, CA 91768  
 909-869-2222

On-line Registration: [www.osscc.org](http://www.osscc.org) or

Contact: Sean Wilson

Events@osscc.org, (310) 933-2255

Free parking

**Please post this notice and invite your friends & colleagues to attend!**