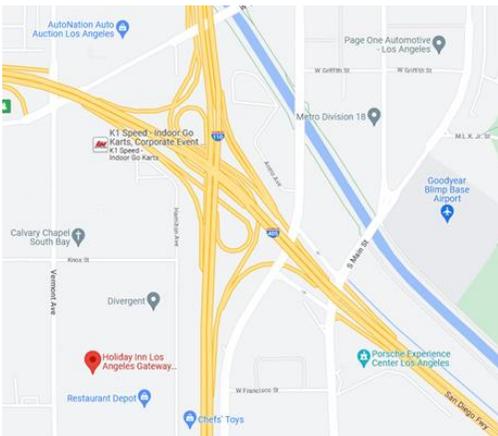


## OSSC Combined In-Person & Webinar "Hyperspectral coastal water imaging from space." Dr. Jeff Puschell, Chief Engineer, EO/IR Payloads, Northrop Grumman Space Park

**Abstract:** Observing the Earth from space has changed the way we see our World – emerging hyperspectral imaging technology gives us a more complete picture. From space, we can monitor global changes on the Earth and use that information to forecast and assess impact of future changes. Emerging hyperspectral ocean color and coastal water imagers will revolutionize our ability to understand coastal water ecosystems by going far beyond existing multispectral systems by offering high spatial, spectral and temporal resolution simultaneously. This presentation reviews space-based ocean color and coastal water imaging beginning with the multispectral Coastal Zone Color Scanner (CZCS) launched in 1978 through SeaWiFS launched in 1997 into the latest developments with hyperspectral NASA PACE OCI in sun synchronous orbit and GLIMR (Geostationary Littoral Imaging and Monitoring Radiometer) for NASA Earth Venture Instrument-5 (EVI-5).

**About our Speaker:** Dr. Jeff Puschell is Chief Engineer, EO/IR Payloads at Northrop Grumman Space Park in Redondo Beach, California. Dr. Puschell joined Northrop Grumman in 2023 June, following a 25+ year career as a Principal Engineering Fellow at Raytheon in El Segundo, California. He is an internationally recognized expert in the system engineering of space-based imaging and remote sensing systems. He has >40 years of experience in developing advanced technology infrared and visible wavelength systems for a variety of operational and research applications. His experience is broadly based and includes leading and making major contributions toward development of visible-infrared instruments for space-based operational environmental remote sensing, development and field testing of laser-based communication and remote sensing systems and building and using millimeter, infrared, visible and ultraviolet wavelength instrumentation for ground-based astronomy. Dr. Puschell has authored or co-authored >130 papers on a variety of topics in astrophysics, imaging, remote sensing and optical communication. He holds patents for innovative passive and active remote sensors. Dr. Puschell received an A.B. (with Honors) degree in Physics from the University of Chicago in 1975 and a Ph.D. in Astrophysics from the University of Minnesota in 1979. He is a SPIE Fellow and an AIAA Fellow. He and his wife Dana live in Solvang and Hermosa Beach, California.



### OSSC Combined In-person and Online Event February 21, 2024

**Reception:** 6:00pm **Dinner:** 7:00pm **Presentation:** 8:00pm  
**Dinner - Members:** \$35 **Non-Members:** \$40 **Students:** \$10  
**Late Fees of \$10, after 11:59 pm February 17**  
**Venue:** Holiday Inn Los Angeles Gateway-Torrance  
1980 S. Vermont Ave, Torrance, CA, 90502

**No fee for in-person without dinner or for online attendees**  
**Registration Required**

**Online Registration until Tue. February 20, 2024**  
[Register Here for In-Person and Online Attendance](#)

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Please post and invite friends to attend.