

Ming Hsieh Dept Of Electrical  
and Computer Engineering

Date: 02/04/2020

PRESENTS:



Dr. Jeff Puschell

**DATE:** 02/04/2020

**TIME:** 11:00am - 12:30pm

**LOCATION:** UPC EEB 132

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## Geostationary Littoral Imaging and Monitoring Radiometer

**ABSTRACT:** GLIMR is a NASA Earth Venture Instrument Project managed by the University of New Hampshire (UNH) and led by Principal Investigator Dr. Joseph Salisbury at UNH. The GLIMR investigation uses a hyperspectral radiometer in geostationary orbit built by Raytheon to enable the first large-scale quantification of rapid changes in phytoplankton growth rate, community composition, and fluxes from land to ocean. In announcing the GLIMR project selection, NASA noted: "GLIMR fills significant gaps in the current suite of ocean color sensors. Current NASA ocean color missions do not provide the temporal or spatial resolution necessary to describe processes in the dynamic coastal zone." This presentation describes the GLIMR investigation and instrument.

**BIO:** Dr. Jeff Puschell is Principal Engineering Fellow and Chief Scientist, Space Systems at Raytheon Space and Airborne Systems in El Segundo, California. He is the Instrument Scientist for GLIMR. Dr. Puschell is an internationally recognized expert in the system engineering of space-based imaging and remote sensing systems. His 30+ years of experience is broadly based and includes leading and making major contributions to development of visible-infrared instruments for space-based research and operational environmental imaging and 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 been Principal Investigator, Technical Director, Chief Engineer, Chief Scientist or Project Manager on more than 15 projects in space-based remote sensing and laser communication. He has authored or co-authored 130+ papers on a variety of topics in space-based imaging and remote sensing, optical communication and astrophysics. Dr. Puschell is co-editor and co-author for the leading reference book Space Mission Engineering: The New SMAD. He is a Fellow of the AIAA and SPIE.