



CENTER FOR NANOHYBRID FUNCTIONAL MATERIALS

**THURSDAY
OCT. 15, 2015
2:30 – 3:30 PM
N129 SCOTT ENGR CENTER
UNL**



Dr. Weilin 'Will' Hou

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Optical Turbulence in the Ocean

The established view of diver visibility has been mainly focused on the effects of particles or turbidity of the water. The influence of optical turbulence due to variations of ocean temperature and salinity is shown to contribute to the degradation, through model and field validation. Lab setup of a simulated environment, and future directions, especially the newly invented fiber optics ocean sensors with UNL, will also be discussed.

Weilin "Will" Hou is a supervisory oceanographer at the U. S. Naval Research Laboratory, and manages the Hydro Optics Sensors and Systems Section. He received his PhD from the College of Marine Science, University of South Florida in 1997. His research interests include ocean optics, underwater imaging, optical turbulence, remote sensing including LIDAR, numerical simulation, data management, instrumentation and platforms including unmanned aerial and underwater vehicles. He helps SPIE organize the Ocean Sensing and Monitoring conference as part of the SPIE Defense and Security Symposium, and teaches a short course on related topics. He is the editor of seven proceeding volumes, and author of the book "Ocean Sensing and Monitoring: Optics and Other Methods".

Seminar hosted by Dr. Ming Han, UNL Department of Electrical and Computer Engineering



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