

# ND Energy *DISTINGUISHED* **LECTURE**



## Center for Sustainable Energy at Notre Dame

### **The Materials Science Center at NREL: Multiscale Materials Design for the Nation's Clean Energy Future**

**October 1  
4:00 pm  
200 Main Building**

The National Renewable Energy Laboratory is the U.S. Department of Energy's primary national laboratory for renewable energy and energy efficient research and development. The Materials Science Center, within the Materials and Chemical Science and Technology Directorate, provides fundamental and applied materials science discovery and problem-solving in support of the nation's energy and environmental goals. Dr. Haegel will highlight recent activity in the Center's areas of focus, including materials physics, electronic structure theory, microscopy and imaging, interfacial and surface science, materials discovery and thin film materials science and processing for photovoltaics and other energy applications. NREL works with a wide range of organizations, including universities, industry and other national laboratories, and Dr. Haegel will review mechanisms for collaboration and identify emerging partnership areas.

Nancy M. Haegel is Center Director for the Materials Science Center in the Materials and Chemical Sciences Directorate at the National Renewable Energy Laboratory (NREL). She leads an organization of ~ 90 staff, associates and post-doctoral and graduate students providing fundamental and applied materials science discovery and problem-solving for current and next-generation renewable energy and energy-efficient technologies.

Dr. Haegel joined NREL in 2014, after ten years at the Naval Postgraduate School in Monterey California, where she was a Distinguished Professor in the Physics Department. Her research interests are in electronic materials and devices, with emphasis on characterization of carrier transport, high resistivity semiconductors and infrared imaging and detection. Dr. Haegel is the author or co-author of ~ 120 publications and has received research support from NSF, NASA Office of Space Science, Research Corporation, DARPA, the Packard Foundation, the Marine Corps Warfighting Laboratory, SOCOM and the Office of Naval Research.

Dr. Haegel received her BS degree in Metallurgical Engineering and Materials Science from the University of Notre Dame and a PhD in Materials Science from the University of California, Berkeley. She was a post-doctoral scientist at Siemens Research Laboratories in Erlangen, Germany before joining the faculty in the Department of Materials Science and Engineering at UCLA in 1987. Prior to her appointment at NPS, Dr. Haegel was on the faculty at Fairfield University and was awarded the 2004 APS (American Physical Society) Prize to a Faculty Member for Research in an Undergraduate Institution for her work there.

Dr. Haegel was the recipient of the TRW Excellence in Teaching Award at UCLA, the Alpha Sigma Nu Teacher of the Year Award at Fairfield University, the Admiral John Jay Schieffelin Award for Teaching Excellence at NPS, and was a 2012 Fulbright Senior Scholar at Hebrew University. She is currently a member of the Board of Trustees of the University of Notre Dame.



**Nancy M. Haegel (ND '81)  
Center Director,  
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