



## Prof. David Geohagan

**Leader-Nanomaterials Synthesis & Functional Assembly Group  
Center for Nanophase Materials Sciences  
Oak Ridge National Laboratory**

### *Nanomaterials from the Bottom-Up: Understanding Assembly from Nanoscale Building Blocks*

At ORNL, Dr. Geohagan has concentrated on understanding and controlling the synthesis of thin films and nanostructured materials through the development of time resolved laser spectroscopy and imaging diagnostic techniques. His research has more recently focused on carbon nanotube and nanohorn synthesis, purification, and processing into multifunctional materials. Basic science projects include studies of the fundamental growth mechanisms for nanomaterials, such as single-walled carbon nanotubes and nanohorns, nanoparticles, and nanowires as well as explorations of their functionality. His research utilizes lasers for synthesis, characterization, and processing of nanoscale materials which exhibit new nanoscale properties for use in hydrogen storage, solid state lighting, and other energy-related applications.

David Geohagan is currently an Adjunct Professor of the Department of Materials Science and Engineering at the University of Tennessee. He obtained his Ph.D. in Physics from the University of Illinois at Urbana-Champaign in 1986 on laser spectroscopy of atoms and molecules related to excimer laser kinetics.

**Host:**  
**Prof. Yongfeng Lu**  
Department of  
Electrical Engineering

**Wednesday, May 7, 4:00 pm**  
**Room 136 Jorgensen Hall**

*3:45pm—Refreshments served in Jorgensen Atrium area*

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