

Department of Chemical and Biomedical Engineering

Cleveland State University

Spring 2020 Seminar Series

## The Thomas Bell Lectureship

Tuesday, March 31<sup>st</sup> at 2:00 PM

Washkewicz Hall 405

### ***Photophysics and Quantum Emission Behavior of Carbon Nanotube Defect States***

*Stephen K. Doorn, PhD*

*Center for Integrated Nanotechnologies*

*Los Alamos National Laboratory*



The Fourth Annual Bell Lecture will be given by Stephen K. Doorn, a Fellow at the Los Alamos National Laboratory (LANL). Dr. Doorn earned his B.S. degree with honors in Chemistry from the University of Wisconsin and his Ph.D. degree in Physical Chemistry from Northwestern University. Dr. Doorn has been a LANL scientist for 29 years, most recently as a member of the research staff of the DOE Office of Science Center for Integrated Nanotechnologies. Following his recent retirement, from LANL, he continues to serve in a Guest Scientist status. Steve's research efforts have included development of gold and silver nanoparticle spectral tags for bioanalytical applications and a focus on chemistry and spectroscopy of carbon nanomaterials. Recent efforts include exciton photophysics, chemistry, and quantum optical behaviors of covalently-introduced carbon nanotube defects. He has published over 160 papers which have been cited more than 6500 times. He has been awarded numerous honors, including the LANL Fellows Prize for Research and the DOE Office of Science Mentor Award. He is a Fellow of the American Physical Society and a LANL Fellow.

The Thomas Bell Lectureship was formed in honor of former CSU Chemical Engineering faculty member, Dr. Donald J. Harvey. The lectureship is the result of a generous donation from CSU Alumnus Thomas Bell (BChE '74).

### **All seminars 11:30 AM- 12:30 PM in Washkewicz Hall 405**



Thursday, January 30<sup>th</sup>: **Graphite – The Critical Carbon**

Ryan Paul, PhD

Associate Director of R&D

GrafTech International Holdings Inc.



Thursday, February 13<sup>th</sup>: **Organic-Inorganic Macroion Coacervate Complexation**

Y. Elaine Zhu, PhD

Chemical Engineering and Materials Science Department

Wayne State University



Thursday, February 27<sup>th</sup>: **Atomically-Precise Deposition & Etching of Metals using Electrochemistry: A New Paradigm for Metallization of Integrated Circuits**

Rohan Akolkar, PhD

Chemical and Biomolecular Engineering Department

Case Western Reserve University