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NATIONAL LABORATORY

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Frontiers in Materials Science Seminar Series

Carbon Growth and Applications



Dr. James M. Tour
Professor, Rice University

April 3, 2015
9-10 a.m.
EMSL 1077

Dr. James M. Tour, professor of materials science and nanoengineering, chemistry, and computer science will present the topic, "Carbon Growth and Applications." Dr. Tour will discuss several new routes to the growth, preparation, and manipulation of graphene, graphene nanoribbons, graphene-nanotube hybrids, and graphene quantum dots from coal. He will also discuss their applications in materials, and environmental and electronics platforms, specifically the use of graphene oxide for the capture of radionuclides from water and the use of mesoporous carbon for the capture of carbon dioxide.

Dr. Tour received his Bachelor of Science degree in chemistry from Syracuse University, his Ph.D. in synthetic organic and organometallic chemistry from Purdue University, and postdoctoral training in synthetic organic chemistry at the University of Wisconsin and Stanford University. After spending 11 years on the faculty of the Department of Chemistry and Biochemistry at the University of South Carolina, he joined the Center for Nanoscale Science and Technology at Rice University. Tour has over 550 research publications and over 75 patents. He is the founder and principal of NanoJtech Consultants, LLC, performing technology assessments for the prospective investor.

Hosted by Dr. Jim De Yoreo 509-375-6494, James.DeYoreo@pnnl.gov, and Dr. David Gotthold, 509-375-2073, David.Gotthold@pnnl.gov