

Department of Materials Science and Engineering

Fall 2010 Seminar Series Schedule

Refreshments at 3:00 p.m., Presentation at 3:30 p.m.

McBryde Hall 113

Date	Title	Speaker/Affiliation
August 27	Graduate Student Event: Orientation for MSE Graduate Students	Prof. Robert Hendricks MSE, Virginia Tech
September 3	Safety Issues	Don Conner Environmental Health & Safety, Virginia Tech
September 10	Nanofabrication at the Center for Functional Nanomaterials	Dr. Aaron Stein Center for Functional Nanomaterials Brookhaven National Laboratory
September 17	Renewable nanotechnologies based on nanoscale celluloses	Prof. Scott Rennekar Wood Science and Forest Products Virginia Tech
September 24	Materials engineering in aqueous systems: nano-/micro-particles, solutions, and interfaces	Prof. Kwadwo Osseo-Asare Materials Science and Engineering Energy and Mineral Engineering Penn State University
October 1	Mechanistic understanding of materials degradation processes in solid oxide fuel cell (SOFC) power generation systems: from bulk to interfacial reactions	Prof. Parbhakar Singh Center for Clean Energy Engineering University of Connecticut
October 8	No seminar (Fall Break)	
October 15	Nanominerals, mineral nanoparticles, and earth systems	Prof. Michael Hochella Geosciences, Virginia Tech
October 22	Investment casting: a process you should know something about	Dr. Jim Barrett Division of Materials & Technology PCC Structural Inc.
October 29	Electrospun cellulose-based scaffolds for tissue engineering	Katia Rodriguez Graduate Student, MSE, Virginia Tech
	Ferromagnetism in gold nanoparticles and Au-In alloy	Chenlin Zhao Graduate Student, MSE, Virginia Tech
	A nanoengineering approach to oxide thermoelectrics for energy harvesting applications	Dan Osborne Graduate Student, MSE, Virginia Tech
November 5	Comparison of residual stresses in large-area silicon chips attached by nanosilver LTJT versus lead-free soldering	Li Jiang Graduate Student, MSE, Virginia Tech
	Fabrication and characterization of fuel encapsulation materials for use in nuclear thermal rockets	Eric Faierson Graduate Student, MSE, Virginia Tech
	Miscibility of GaAsN	Tim Ciarkowski Graduate Student, MSE, Virginia Tech
November 12	Ordered nanopore pattern formation by focused ion beam guided anodization	Zhipeng Tian Graduate Student, MSE, Virginia Tech
	Effect of composite structure and material composition on self-biased magnetoelectric response in lead-free three-phase laminates	Su Chul Yang Graduate Student, MSE, Virginia Tech
	Texturing of lead free (1- x)Na_{0.5}Bi_{0.5}TiO_{3-x} BaTiO₃ piezoelectric ceramics using RTGG and TGG method	Deepam Maurya Graduate Student, MSE, Virginia Tech
November 19	Chemical compatibility between Sr- doped Lanthanum Manganite Cathode and AISI441 interconnect	Tongan Jin Graduate Student, MSE, Virginia Tech
	Domain structures of lead free ferroelectric pure and Mn-doped Na_{1/2}Bi_{1/2}TiO₃ crystals	Jianjun Yao Graduate Student, MSE, Virginia Tech
	Texturing, piezoelectric properties, and device integration of sputtered PZT thin films	Ronnie Varghese Graduate Student, MSE, Virginia Tech
November 26	No seminar (Thanksgiving Break)	
December 3	Multiferroic effects in monolithic structure	Zhiguang Wang Graduate Student, MSE, Virginia Tech
	Formation, structure and properties of freeze-cast Kaolinite-Silica nanocomposites	Wenle Li Graduate Student, MSE, Virginia Tech
	Theoretical study of direct modulation of the optical output of quantum dot lasers by electric current	Yuchang Wu Graduate Student, MSE, Virginia Tech
	Mechanical properties of sintered nano- silver paste	Kewei Xiao Graduate Student, MSE, Virginia Tech