SEMINAR TITLE

Active Materials for Energy and Bioapplications: An overview of the Nino Research Group at University of Florida

In this presentation, an overview of the research activities of the Nino Research Group (NRG) at University of Florida (Gainesville, FL, USA) will be given. The current involvement in the development of materials for fast ion conductors, high permittivity dielectrics, superconductors, scintillators, and semiconductors will be described. In addition, the NRG capabilities in terms of synthesis, processing and characterization of single crystals, thin films, nanofibers, nanoparticles, foams, and bulk ceramics will be discussed. Examples of very recent NRG published work will be presented. Finally, the seminar will end with a conversation on potential areas for collaboration with researchers at Universität Bremen.

SHORT BIO

Dr. Juan Claudio Nino, is a Professor in the Materials Science and Engineering Department at University of Florida (UF) in Gainesville, FL. He obtained his bachelor's degree in Mechanical Engineering in 1997 at Los Andes University (Bogotá, COLOMBIA). He was a Lecturer at the Colombian Engineering School before joining The Pennsylvania State University in 1998, where he completed his doctoral degree in Materials Science and Engineering in 2002. After a postdoctoral appointment focusing on ferroelectric thin films at the Materials Research Institute (State College, PA), he joined UF in Fall 2003. Since, he has established the Nino Research Group (NRG) with main focus of the investigation of fundamental relationships governing energy-related materials towards enhancing their efficiency, performance, and sustainability. NRG's research investigates ceramics, polymers, bio-inspired materials, and their composites. Current research focus includes optimization and development of materials for: (a) electrolytes and cathodes for ionic and protonic conduction devices, (b) high frequency and high temperature dielectrics, ferroelectrics and piezoelectrics, (c) porous ceramics and composite foams, and (d) semiconductors and scintillators for radiation detection. He has over 100 peer reviewed publications in the field. He is a recipient of the CAREER award and the American Competitiveness Initiative Fellowship by the US National Science Foundation. In 2009 he received the J Bruce Wagner Jr Young Investigator Award from the Electrochemical Society. He is an Associate Editor for the Journal of the American Ceramics Society, and a Coordinating Editor for the Journal of Electroceramics.

Time: Do, 19.12., 13:15

Place: