



Frank W. DelRio

Embassy Science Fellow

National Institute of Standards and Technology (NIST)

Presentation on:

The mechanics of advanced materials for energy applications

Tuesday, 23.5.2017 at 14:00

NETME Centre

Technická 2896/2, 612 00 Brno

Building D5, Room: 416f

Speaker:

Frank W. DelRio received a B.S. in Mechanical Engineering from Carnegie Mellon University in 1998, after which he worked as a Product Support Engineer at C&D Aerospace (now C&D Zodiac), first in Huntington Beach, CA and later in São José dos Campos, Brazil. In 2001, he returned to academia, ultimately receiving an M.S. in Mechanical Engineering from Boise State University in 2002 and a Ph.D. in Mechanical Engineering from the University of Colorado at Boulder in 2006. After working as a postdoctoral researcher in the Department of Chemical Engineering at the University of California, Berkeley, he joined the Materials Science and Engineering Laboratory (now the Material Measurement Laboratory, MML) at the National Institute of Standards and Technology (NIST). At NIST, Frank has served as the Leader of the Nanoscale Strength Measurements and Standards Project from 2007 to 2014 and the Small-Scale Mechanics for Advanced Materials Project from 2014 to 2016. His research focuses on the development and use of materials and assemblies for small-scale mechanical applications via advancements in stand-alone and integrative mechanical measurement and microscopy techniques, with an emphasis on advanced materials in electronics, biomedical and health, energy, and forensics applications. In all, he has published more than 50 peer-reviewed papers in journals such as Nature Materials, PNAS, Nano Letters, and ACS Applied Materials and Interfaces. Currently, Frank is on detail to the MML Lab Office as a Science Advisor, working with the MML Management Team to provide scientific and strategic advice on programmatic opportunities and technical programs, participate in program planning, and develop external relationships and collaborations.

