Purdue University

School of Materials Engineering

Presents

Date: Monday, September 16, 2013 Time: 3:30 Refreshments 3:45 Seminar Place: ARMS 1010



Infinite Possibilities

Dr. Dylan Morris Michelin Americas Research Company Greenville, South Carolina

TIRE PERFORMANCE FROM THE MATERIALS PERSPECTIVE

ABSTRACT

Pneumatic tires are the quintessential high-technology composite product, formed from over 200 raw materials and dozens of semi-finished products. Tires are the final link between the tire and road, each contacting the road over a surface area about the size of your hand, and strongly impact safety, handling, noise, comfort and fuel economy – all while enduring millions of high-strain deformation cycles. This presentation will be a general overview of tire technology and tire materials.



SHORT BIO

B.S. Chemical Engineering, Colorado School of Mines
Ph.D. Materials Science, University of Minnesota
Washington State University, Postdoctoral researcher, 2004-2007, Mechanical and
Materials Engineering
NIST Gaithersburg, Materials Research Engineer 2007-2010, Nanomechanical
Properties Group
I have been at Michelin Americas Research Company in the "physics and mechanisms" group since 2010, working in wear performance research from the tribological perspective.