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Energy **C**hallenges & **M**echanics
- working on small scales

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Keynote Speaker of Session 11

NANOMECHANICS



Yuris Dzenis is a McBroom Professor of Engineering at the University of Nebraska-Lincoln. He has earned his PhD in Aerospace and Mechanical Engineering from the University of Texas-Arlington, PhD in Physics and Mechanics of Polymers from the Institute of Polymer Mechanics, Latvian Academy of Sciences, and MS in Physics from Latvian University. Prof. Dzenis' research interests are in design, manufacturing, characterization, and modeling of advanced structural nanomaterials, fibers, and composites. He is currently involved in developing and understanding mechanical behavior of a number of structural and functional nanofibers, in collaboration with colleagues from several

institutions and disciplines. Most recent advances included the discovery and explanation of simultaneously high strength and toughness of ultrafine continuous nanofibers. Dr. Dzenis served on numerous US national and international panels and committees on composites, nanomaterials and nanomanufacturing, advanced materials, and NDE. He has been an invited keynote and plenary speaker at numerous national and international conferences on composites, nanotechnology, materials, and mechanics and has written two invited perspectives on continuous nanofibers and structural nanocomposites for *Science*.

