

# Department of Chemical and Biomedical Engineering Cleveland State University Spring 2018 Seminar Series

## The Thomas Bell Lectureship

Thursday, April 19<sup>th</sup> at 3:00PM  
Washkewicz Hall 405

### Are Carbon Nanotubes the XXI Century Plastics?

Matteo Pasquali, PhD

Department of Chemical and Biomolecular Engineering  
Rice University



The Second Annual Bell Lecture will be given by Matteo Pasquali, the A. J. Hartsook Professor of Chemical & Biomolecular Engineering, Chemistry, and Materials Science & NanoEngineering at Rice University. After receiving his Laurea from the University of Bologna and PhD from the University of Minnesota, Matteo joined Rice University in 2000 to start a laboratory on soft materials, which evolved into a key center for the scalable manufacturing and application of carbon nanotubes (CNTs) and graphene materials with enhanced mechanical, electrical and thermal properties. Matteo's work is funded by a wide range of industries, from international and national oil companies to automotive, aerospace, electronics, and high tech companies. Matteo's work has been recognized by numerous awards, including the NSF CAREER, Goradia innovation prize, Schlack award for man-made fibers, and multiple NASA Tech Brief Awards. Matteo is an elected Fellow of the American Physical Society.

The Thomas Bell Lectureship was formed in honor of former CSU Chemical Engineering faculty member, Dr. Donald J. Harvey. The lectureship is the result of a generous donation from CSU Alumnus Thomas Bell (BChE '74).

All seminars 3:00 PM – 4:00 PM in Washkewicz Hall 405.



January 25<sup>th</sup>: **Structural & Compositional Analysis Solutions from Materials Engineering to Biomedical Research**  
Amir Avishai, PhD  
Swagelock Center for Surface Analysis and Microscopy  
Case Western Reserve University



March 29<sup>th</sup>: **Effect of hydration on mechanical properties of anion exchange membranes for fuel cells**  
Matthew Liberatore, PhD  
Chemical Engineering Department  
University of Toledo



February 1<sup>st</sup>: **Novel conjugated systems for organic solar cells**  
Geneviève Sauvé, PhD  
Chemistry Department  
Case Western Reserve University



April 5<sup>th</sup>: **Modeling liquid crystal elastomers: shape morphing, auto-origami, and a light-driven wave machine**  
Robin Selinger, PhD  
Liquid Crystal Institute  
Kent State University



February 22<sup>nd</sup>: **Reaction engineering and advanced electrochemical engineering**  
Chelsea Monty, PhD  
Chemical Engineering Department  
University of Akron



April 19<sup>th</sup> – Bell Lecture: **Are Carbon Nanotubes the XXI Century Plastics?**  
Matteo Pasquali, PhD  
Chemical and Biomolecular Engineering Department  
Rice University



March 1<sup>st</sup>: **Sustainable Material Design and Synthesis: Creating Tools for Selective Reactions Relevant to Fine Chemical Production and Biomass Conversion**  
Nicholas Brunelli, PhD  
Chemical and Biomolecular Engineering Department  
Ohio State University



April 26<sup>th</sup> – **The History of Multiphase Science and Computational Fluid Dynamics**  
Robert Lyczkowski, PhD



Washkewicz College  
of Engineering