Spring 2018  
UConn Chemistry  
Seminar Series  
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History to Microfluidics: Protein-based Cancer Diagnostics and Toxicity Screening  
James Rusling, UConn | Host: Steven Suib

Design and Synthesis of Organic Semiconductors for Advanced Applications  
Malika Jeffries-El, Boston University | Host: Amy Howell

The Chemistry of Nuclear Power  
Steven Barshay, UConn | Host: Rebecca Quardokus

Multiscale Modeling for Self-Assembled Materials  
Jianing Li, University of Vermont | Host: Jing Zhao

From Chirality-Assisted Synthesis to Polymer Replication  
Severin Schneebeli, University of Vermont | Host: Jing Zhao

Metals in Cells: The Inorganic Foundation of Life  
Amit Reddi, Georgia Tech | Host: Alfredo Angeles-Boza

The Challenges of Automating Carbohydrate Synthesis and Analysis  
Nicola Pohl, Indiana University Bloomington | Host: Amy Howell

Iron Complexes for the Reversible Hydrogenation of CO₂ to Formic Acid and Methanol  
Nilay Hazari, Yale University | Host: Steven Suib

Using Biological and Inorganic Methods to Explore the Activity of the Antimicrobial Peptide Clavanin A  
Sam Juliano, Angeles-Boza Group, UConn

Annual Graduate Student Meeting  
Christian Brückner, UConn

Single Chain Polymer Nanoparticles: A Synthetic Mimics for Metalloenzymes  
Srinivas Thanneeru, He Group, UConn

R.T. Major Lecture Series  
The Origin of Cellular Life  
Jack Szostak, Massachusetts General Hospital & Harvard Medical School | Host: Jessica Rouge

R.T. Major Lecture Series  
Imaging and Controlling Cellular Biology Using Genetically Encoded RNA Devices  
Samie Jaffrey, Cornell University | Host: Jessica Rouge
**R.T. Major Lecture Series**  
THE SURPRISING CHEMISTRY OF NONEMZYMATRIC RNA REPLICATION  
**JACK SZOSTAK**, Massachusetts General Hospital & Harvard Medical School | Host: Jessica Rouge

**Nonlinear Block Copolymers-Enabled Crafting of Nanocrystals with Precise Controlled Dimensions, Compositions, and Architectures for Energy Applications**  
**ZHIQUN LIN**, Georgia Tech | Host: Jie He

**Breaking and Mending of the Pigments of Life-Introduction of Oxygen Heterocyclic into Porphyrinic Frameworks**  
**MEENAKSHI SHARMA**, Brückner Group, UConn

**Plasmon-Enhanced Artificial Photosynthesis**  
**NICK WU**, West Virginia University | Host: JING ZHAO/JIE HE

**Simple Polymer Mimics of Natural Proteins Enable New Opportunities in Drug Delivery and Advanced Materials**  
**GREGORY TEW**, UMass Amherst | Host: JIE HE

**Synthesis and Optical Properties of Au Nanoparticle Assembly and Au-Silica Heterostructures**  
**YI LUO**, ZHAO GROUP, UConn

**Reactivity of Boroles**  
**CALEB MARTIN**, Baylor University | Host: GAIL UNG

**Breaking and Mending of the Pigments of Life-Ring Expansion Reactions of Octaethylporphyrin/Oxidative Conversions of Penta-fluorophenylporphyrins**  
**NISANSALA HEWAGE & RUOSHI LI**, Brückner Group, UConn

**Artificially Intelligent Polymers**  
**YOAN C. SIMON**, University of Southern Mississippi | Host: RAJESWARI KASI

**ALS and UBQLN2: Liquid-Liquid Phase Separation of UBQLN2 is Modulated by Oligomerization and Ubiquitin Binding**  
**CARLOS CASTANEDA**, Syracuse | Host: ALFREDO ANGELES-BOZA

**Optoelectronic Interactions of Quantum Dots with Gold Nanoparticles and Bacteriorhodopsin**  
**TERIANNA WAX**, ZHAO GROUP, UConn