



**FRIDAY, JULY 27** *Presiding: Donna Huryn, University of Pennsylvania*

8:15 am - 9:00 am	Continental breakfast	UMC 235
9:00 am - 9:45 am	<b>Karen Wooley</b> Texas A&M University <i>Degradable polymers derived from polyhydroxyl natural products and/or incorporated into functional nanoscopic objects</i>	UMC 235
9:45 am - 9:55 am	Questions	
9:55 am - 10:15 am	<b>Kelly Volp</b> University of Minnesota <i>Total Synthesis of Sorbicillactone A: Inspiration for Methodology and Catalyst Development</i>	UMC 235
10:15 am – 10:40 am	Coffee Break	UMC 235
10:40 am - 11:00 am	<b>Zhi He</b> University of Toronto <i>From alpha-Boryl Aldehydes to Acyl Boronates: An Adventure in the Reactivity of Boron-containing Amphoteric Molecules</i>	UMC 235
11:00 pm - 11:20 am	<b>Hemakesh Mohapatra</b> The Pennsylvania State University <i>Design and Synthesis of Reagents for Trace-Level Chemical Detection and Signal Amplification</i>	UMC 235
11:20 pm – 11:40 am	<b>Joseph Badillo</b> University of California, Davis <i>Catalytic Asymmetric Synthesis of Spirocyclic Oxindoles</i>	UMC 235
11:40 pm - Noon	<b>Group Photograph</b>	UMC 235
12:00 pm - 3:00 pm	Lunch and Poster Session 1	UMC 235
3:00 pm - 5:00 pm	<b>WORKSHOP 1: Academic Life:</b> Gary Molander, UPenn Carolyn Anderson, Calvin College Sonja Krane, ACS Publications Robert Lees, NIGMS David MacMillan, Princeton	UMC 235

Gary A. Molander, University of Pennsylvania  
Tarek Sammakia, University of Colorado  
Karen Wooley, Texas A&M

**FRIDAY EVENING** *Presiding: Donna Huryn, UPenn*

5:00 pm - 6:30 pm Dinner UMC South Terrace

6:30 pm - 7:15 pm **Matt Ravn** UMC 235

Abbott

*Process Development Towards Efficient Production of a  
Macrocyclic HCV Protease Inhibitor*

7:15 pm - 7:25 pm Questions

7:30-9:30 **WORKSHOP 2: Industrial Life: Donna Huryn, UPenn** UMC 235

**Group A**

Kate Ashton, Amgen

Ian Davies, Merck

John Flygare, Genentech

Davd Goldstein, Principia Biopharma

Deidre Johns, Lilly

Matthias Ober, Dow Chemical

**Group B**

Dave St. Jean, Amgen

Chris Welch, Merck

Lisa Marcaurelle, H3 Biomedicine

Yutong Jiang, Array Biopharma

Mark Karver, Sigma-Aldrich

Matt Ravn, Abbott

9:30 pm – 11:45 pm Reception UMC South Terrace

**SATURDAY, JULY 28** *Presiding: Tarek Sammakia, CU Boulder*

8:30 am - 9:00 am Continental breakfast UMC South Terrace

9:00 am - 9:45 am **Yutong Jiang** UMC 235

Array Biopharma

*Discovery of HCV NS3 Protease Inhibitors for Treating Hepatitis C*

9:45 am - 9:55 am Questions

9:55 am - 10:15 am **Darci Trader** UMC 235

Indiana University

*The Development of Chemoselective Enrichment Tags for  
Natural Product Discovery*

10:15 am – 10:40 am Coffee Break UMC Arcade / Fountain Area

10:40 am - 11:00 am	<b>Alex Huters</b> UCLA <i>Enantiospecific Total Synthesis of [4.3.1]-Bicyclic Welwitindolinones</i>	UMC 235
11:00 am - 11:20 am	<b>Hongkun Lin</b> Brandeis University <i>Homoallylboration and homocrotylboration of aldehydes</i>	UMC 235
11:20 pm – 11:40 am	<b>Kimberly Choquette</b> Lehigh University <i>Mechanistic Investigation of the Role of HMPA in the Samarium Barbier Reaction</i>	UMC 235
11:40 pm - 12:10 am	<b>Kayla Bloome</b> University of North Carolina Chapel Hill <i>Palladium-Catalyzed Heck-Type Reactions of Alkyl Halides</i>	UMC 235
12:15 pm - 3:00 pm	Lunch and Poster Session 2	UMC 235
<b>SATURDAY, AFTERNOON</b> <i>Presiding: Gary Molander, UPenn</i>		
3:20 pm – 3:40 pm	<b>Salman Jabri</b> University of California, Irvine <i>Progress Toward the Total Synthesis of the Plectosphaeroic Acids</i>	UMC 235
3:40 pm – 4:00 pm	<b>Gitanjali Prasad</b> University of Massachusetts - Amherst <i>Reactive Heterocycles for Examining Mechanisms of Polyketide Biosynthesis</i>	UMC 235
4:00 pm – 4:20 pm	<b>Akshay Shah</b> Indiana University <i>Development of a Novel Iron-Mediated Pauson Khand Reactions of 1,1-Disubstituted Allenylsilanes: Mechanistic Implications for a Reactive Three-Membered Iron Metallacycle</i>	UMC 235

4:20 pm – 4:40 pm	<b>Mirna El Khatib</b> University of Florida <i>Organic Synthesis Mediated by N-Substituted Benzotriazole</i>	UMC 235
4:40 pm – 5:00 pm	<b>Allie Obermeyer</b> UC Berkeley <i>Investigation of an Oxidative Coupling Bioconjugation Reaction with Small Molecules</i>	UMC 235
4:40 pm – 5:00 pm	<b>Karen Morrison</b> University of Illinois, Urbana-Champaign <i>Construction of Complex and Diverse Compounds Yields a Novel Antitumor Agent</i>	UMC 235
5:00 pm – 5:20 pm	<b>Anoklase Ayitou</b> North Dakota State University <i>The Interplay Between Reaction Medium and Substrate Spin State During Light Induced Enantiospecific 6p-Electrocyclization of Axially Chiral Acrylanilides</i>	UMC 235
6:00 pm - 22:30 pm	Dinner	The Gondolier, 1600 Pearl Street, Boulder
<b>SUNDAY, JULY 29</b> <i>Presiding: Donna Huryn, UPenn</i>		
8:15 am - 9:00 am	Continental breakfast	UMC 235
9:00 am - 9:45 am	<b>Carolyn Anderson</b> Calvin College <i>New Methods for the Synthesis of N-Substituted 2-Pyridones</i>	UMC 235
9:45 am - 9:55 am	Questions	
9:55 am - 10:15 am	<b>Yingda Ye</b> University of Michigan <i>Merging Visible Light Photocatalysis and Transition Metal Catalysis in the Copper-Catalyzed Trifluoromethylation of Boronic Acids with CF<sub>3</sub></i>	UMC 235
10:15 am – 10:40 am	Coffee Break	UMC Arcade / Fountain Area

10:40 am - 11:00 am	<b>Rachel Hevey</b> University of Calgary <i>A Facile Approach to Orthogonally-Protected D-Idopyranosides and its Application in Efforts toward a C. jejuni Conjugate Vaccine</i>	UMC 235
11:00 pm - 11:20 pm	<b>Dan Nielsen</b> Princeton University <i>Transition-Metal Catalyzed Coupling of Strained Rings</i>	UMC 235
11:20 pm – 11:40 pm	<b>Nohemy Sorto</b> Univerity of California, Davis <i>Design and Synthesis of Potential Cell Division Modulators</i>	UMC 235
11:40 pm - 12:10 am	<b>Leah Cleary</b> University of California, Irvine <i>Progress Toward the Total Synthesis of Welwitindolinone B</i>	UMC 235
12:15 pm - 2:00 pm	Lunch/Depart	UMC 235

**FRIDAY, JULY 27: POSTER SESSION 1**

**Pascal Atallah**, University of Florida  
*Polyolefins Possessing Siloxy Groups: Synthesis and Characterization*

**Marilda Lisboa**, Florida State University  
*Synthetic Approach Toward Palmerolide A*

**Travis McMahon**, Colorado State  
*Progress Towards the Total Synthesis of the Tetrapetalones*

**Brian Jones**, Northwestern University  
*The Synthesis of the Prodigiosin Alkaloids and Propolisbenzofuran B*

**Kristen Barrett**, University of the Sciences  
*Quinoline Sulfones as Inhibitors of Aldose Reductase*

**Chihui An**, University of Pennsylvania  
*Total Synthesis of (-)-Irciniastatin B*

**Katherine Djernes**, University of California, Riverside  
*Cavitands Oxidize Unactivated Hydrocarbons in Aqueous Solution*

**Brad Loertscher**, Brigham Young University  
*Studies Toward the Synthesis of Cranomycin*

**Souvik Banerjee**, University of Mississippi  
*Concise Synthesis of Diverse Alpha-Methyl Lysine and Proline  
Analogues from a Common Synthon*

**Surendra Dawadi**, University of Missouri-St. Louis  
*Removal of Aluminum from Total Parenteral Nutrition (TPN) Solution*

**Hanxiang Zeng**, University of California Irvine  
*Biodegradable and Stimuli-Resonponsive Nanogel for Efficient siRNA Delivery*

**Ryan Totten**, Northwestern University  
*Bio-Inspired Supramolecular Porphyrin Assemblies for the Catalytic Methanolysis of a Phosphate Triester*

## **SATURDAY, JULY 28: POSTER SESSION 2**

**Grace Ferris**, Boston College  
*Enantioenriched Allylboronates: Synthesis via Catalytic 1,2-Diboration of 1,3-Dienes and Applications in Tandem Reaction Sequences*

**Alfredo Picado**, Clemson University  
*1,4-Additions to Nitrodienoates as Initial Step for the Synthesis of Substituted Piperidones*

**Jennifer Johns**, University of Florida  
*Catalytic Oxidative Carbonylation of Amino Amides*

**Thomas Kirby**, University of Colorado at Boulder  
*Aryl Azides in the Traceless Staudinger Ligation: Applications to Prodrug Synthesis*

**Jamie Neely**, Colorado State  
*Pyridine Synthesis by Rhodium(III)-Catalyzed C-H Olefination of  $\alpha,\beta$ -Unsaturated Oxime Esters*

**Kyle Lewis**, Texas A&M University  
*A New Addition to the Chiral Pool: Werner Complexes in Enantioselective Hydrogen Bond Mediating Catalysis*

**Xiaochuan Cai**, Brandeis University  
*Progress Toward the Synthesis of Marineosins A, B*

**Patrick Rogers**, University of California, Davis  
*Synthesis of 2'-Fluorinated Nucleotides as Probes of DNA Repair Enzymes*

**Courtney Meyet**, University of California, Riverside  
*Efficient Copper(II) Catalyzed One-Step Synthesis of Alkyl and Aryl Substituted Quinolines from Commercially-Available Starting Materials*

**Ryan Michael**, University of Colorado  
*Synthesis of All Carbon Quaternary Centers in Sterically Hindered Environments*

**Teresa Cook**, University of Cincinnati  
*Exploring metal catalyzed reactions under solvent-free high speed ball milling (HSBM)*

**Alexandr Grisin**, University of Liverpool  
*Synthetic Studies Towards C1-C30 and C31-C52 Fragments of Amphidinol 3*