THURSDAY, JULY 14
3:00 pm - 6:30 pm  Arrival and Dormitory Check-in at the Santa Rosa Hall
5:30 pm - 6:30 pm  Registration and Dinner  Formal Lounge, Santa Rosa Hall

THURSDAY EVENING  Presiding: Gary A. Molander (University of Pennsylvania)
6:30 pm - 7:15 pm  Richmond Sarpong  Multicultural Center Theater (MCT)
University of California, Berkeley
Strategies and Tactics for the Synthesis of Complex Natural Products
7:15 pm - 7:25 pm  Questions
7:25 pm - 7:45 pm  Jeffrey S. Cannon  MCT
University of California, Irvine
Investigation of the Scope and Mechanism of the Palladium-Catalyzed Synthesis of
Enantioenriched Allylic Esters from Prochiral (Z)-Allylic Alcohol
7:45 pm - 8:05 pm  Jennifer A. Dabrowski  MCT
Boston College
Copper(I)-Catalyzed Enantioselective Allylic Substitution of Alkynylaluminum Reagents to
Allylic Phosphates
8:05 pm - 8:25 pm  Derek M. Dalton  MCT
Colorado State University
Favoring CO Migration in the Rhodium Catalyzed [2+2+2] Cycloaddition and Application to
Natural Product Synthesis
8:25 pm – 8:45 pm  Juana Du  MCT
University of Wisconsin, Madison
Brønsted Acid Activation of Enones in Visible Light Photocatalysis
8:45 pm - 9:05 pm  Jason R. Zbieg  MCT
The University of Texas at Austin
Controlling Selectivity in Novel Transition Metal Catalyzed Carbon-Carbon Bond Forming
Hydrogenations
9:15 pm – 11:45 pm  Reception  Formal Lounge, Santa Rosa Hall

FRIDAY, JULY 15  Presiding: P. Andrew Evans (The University of Liverpool)
8:15 am - 9:00 am  Continental breakfast  Formal Lounge, Santa Rosa Hall
9:00 am - 9:45 am  Kate Ashton  Multicultural Center Theater (MCT)
Amgen
Structure-Based Drug Design: BACE, A Case Study
9:45 am - 9:55 am  Questions

9:55 am - 10:15 am  Pin-Nan Cheng  
University of California, Irvine

β-Sheet Macrocycles that Mimic and Antagonize Amyloid Aggregation and Reduce Amyloid Oligomer Cytotoxicity

10:15 am – 10:40 am  Coffee Break  
Lagoon Plaza

10:40 am - 11:00 am  Angie Garcia  
University of California, Riverside

Progress in the Development of Therapeutic Drugs for CNS Disorders: Synthetic and Theoretical Studies of Cannabinoid Analogues

11:00 pm - 11:20 am  Derek M. Ryan  
University of Rochester

Self-assembly and Hydrogelation of Phenylalanine Derivatives

11:20 pm – 11:40 am  Daniel R. Dreyer  
The University of Texas at Austin

Graphite Oxide as a Metal-Free Catalyst: Forays into Carbocatalysis

11:40 pm - Noon  Group Photograph  
Friendship Court/Lagoon Plaza

12:00 pm - 3:00 pm  Lunch and Poster Session 1  
Formal Lounge & Patio, Santa Rosa Hall

3:00 pm - 5:00 pm  WORKSHOP 1: Academic Life: P. Andrew Evans, Gary A. Molander, Sonja Krane, Miles A. Fabian  
MCT

FRIDAY EVENING  Presiding: Thomas R. Pettus (University of California, Santa Barbara)

5:00 pm - 6:30 pm  Dinner  
Dining Room, Faculty Club

6:30 pm - 7:15 pm  Anna K. Mapp  
University of Michigan

Small Molecule Transcriptional Regulators

7:15 pm - 7:25 pm  Questions

7:25 pm - 7:45 pm  Leah S. Witus  
University of California, Berkeley

Optimization of Protein Bioconjugation Reactions using Combinatorial Peptide Libraries

7:45 pm - 8:05 pm  Matthew E. Belowich  
Northwestern University

Template-Directed Synthesis of Polyrotaxanes Under Thermodynamic Control
8:05 pm - 8:25 pm  **Lisa M. Johnson**  
University of Wisconsin, Madison  
*Design of α/β Peptidic Foldamers that Mimic α Peptide Inhibitors of Viral Membrane Fusion*

8:25 pm – 8:45 pm  **Nathaniel I. Shank**  
Carnegie Mellon University  
*Development of Fluorescent Probes for In Vivo Applications*

8:45 pm - 9:05 pm  **Matthew J. Kryger**  
University of Illinois at Urbana-Champaign  
*Efforts Towards Mechanochemically Induced Self-Healing of Polymers*

9:15 pm – 11:45 pm  Reception  
Formal Lounge, Santa Rosa Hall

**SATURDAY, JULY 16**  
*Presiding: Gary A. Molander (University of Pennsylvania)*

8:15 am - 9:00 am  Continental breakfast  
Formal Lounge, Santa Rosa Hall

9:00 am - 9:45 am  **David J. Lythgoe**  
Sanofi-Aventis  
*Process Chemistry in Pharmaceuticals*

9:45 am - 9:55 am  Questions

9:55 am - 10:15 am  **Phillip A. Inglesby**  
The University of Liverpool  
*Rhodium-Catalyzed Carbocyclizations and Enecycloisomerizations of Alkenylenecyclopropanes: Total Synthesis of Complex Natural Products*

10:15 am – 10:40 am  Coffee Break  
Lagoon Plaza

10:40 am - 11:00 am  **Jennifer Ciesielski**  
University of Rochester  
*Scope and Limitations of a β-Iodoallenolate Cyclization; Efforts Towards the Total Synthesis of Phomactin A*

11:00 am - 11:20 am  **W. Christopher Boyd**  
University of California, Berkeley  
*Cobalt-Mediated Vinylic C-H Functionalization of Alkenes*

11:20 pm – 11:40 am  **Peter K. Dornan**  
University of Toronto  
*Rhodium-Catalyzed Approaches to Medium-Sized Heterocycles*

11:40 pm - 12:00 am  **Sarah M. Bronner**  
University of California, Los Angeles  
*Indolyne Regioselectivities and Synthetic Application*
12:15 pm - 3:00 pm    Lunch and Poster Session 2    Formal Lounge & Patio, Santa Rosa Hall

3:00 pm – 5:00 pm    WORKSHOP 2: Industrial Life: Gary A. Molander    MCT
                      Aaron R. Thornton, Aldrich Chemical Co.
                      Catherine A. Faler, ExxonMobil Chemical
                      Daniel D. Vanderlende, Dow Chemicals

6:00 pm - 11:00 pm    BBQ    Dining Room, Faculty Club

SUNDAY, JULY 17    Presiding: P. Andrew Evans (The University of Liverpool)

8:15 am - 9:00 am    Continental breakfast    Formal Lounge, Santa Rosa Hall

9:00 am - 9:45 am    Carlos G. Gutiérrez    Multicultural Center Theater (MCT)
                      California State University, Los Angeles
                      Proton as Protecting Group: Discriminating Between Amine Functionalities in Polyamines

9:45 am - 9:55 am    Questions

9:55 am - 10:15 am    Andrey Solovyev    MCT
                      University of Pittsburgh
                      Chemistry of Complexes between N-Heterocyclic Carbenes and Boranes

10:15 am – 10:40 am    Coffee Break    Lagoon Plaza

10:40 am - 11:00 am    Svitlana Kulyk    MCT
                      Temple University
                      Taming the Complexity of Enyne-Pyridone Photocycloadditions

11:00 pm - 11:20 pm    Vinson R Espejo    MCT
                      University of Utah
                      Synthetic Studies Towards Epidithiodiketopiperazine Natural Products

11:20 pm – 11:40 pm    Danielle M. Schultz    MCT
                      University of Michigan
                      Recent Advances in Intramolecular Alkene Carboamination Reactions

11:40 pm - 12:00 am    Erika A. Crane    MCT
                      Northwestern University
                      Enantioselective Synthesis of (−)-Exiguolide by Iterative Stereoselective Dioxinone-Directed
                      Prins Cyclizations

12:15 pm - 2:00 pm    Lunch    Formal Lounge, Santa Rosa Hall

2:00 pm    Depart
FRIDAY, JULY 15: POSTER SESSION 1

1. Abela, Alexander R.; University of California, Santa Barbara
   Room Temperature C-H Activation Catalyzed by Cationic Palladium

2. Andrews, Robert S.; University of North Carolina at Chapel Hill
   Visible Light-Mediated Photoreduction of Glycosyl Bromides for C-Glycoside Synthesis

3. Baker, Matthew B.; University of Florida
   Selective Desymmetrization of a Benzotrifuranone Scaffold

4. Burke, Daniel J.; University of California, Santa Barbara
   Ketenes in the Synthesis and Functionalization of Polymers

5. Crapster, J. Aaron; University of Wisconsin-Madison
   The Design and Construction of Novel Discretely Folded Peptoids

6. Greene, Allison K.; Boston College
   New insights into Palladium Catalyzed Intramolecular Arylation Reactions for the Synthesis of Geodesic Polyarenes

7. Grenning, Alexander J.; The University of Kansas
   New Approaches to Allylic Alkylation: Decarboxylative Allylation and Deacylative Allylation

8. Hanhan, Nadine V.; University of California, Davis
   Catalytic Asymmetric Synthesis of Hydroxy Oxindoles and Spirooxindoles

9. Huang, Shenlin; University of California, Santa Barbara
   Total Synthesis of (+)-Korupensamine B and related natural products via an Atropselective Intermolecular Biaryl Coupling

10. Joshi-Pangu, Amruta; The City College of New York
    Nickel-Catalyzed Cross-Couplings of Secondary and Tertiary Alkyl Nucleophiles with Aryl Halides
11. Khedri, Zahra; University of California, Davis
   Chemoenzymatic Synthesis of Structurally Defined Sialic Acid Containing Sialosides and Biological Studies of their Functions

12. Kramer, Jessica R.; University of California, Los Angeles
   Glycopolypeptides by Polymerization of Glycosylated N-Carboxyanhydrides

13. Liu, Ruzhang; University of Kansas
   Synthetic Studies Toward Pinnaic Acid and Alkaloid 205B

14. Lutz, Kelly E.; Northwestern University
   Traceless Bond Construction through the [3,3] Sigmatropic Rearrangement of N-Allylhydrazones

15. Osbourn, Joshua M.; University of Pittsburgh
   The Thermal Allene-yne [2+2] Cycloaddition Reaction: Exploring the Mechanism and Application to Carbocyclic Spirooxindoles

SATURDAY, JULY 16: POSTER SESSION 2

16. Patil, Dadasaheb V.; Georgia Institute of Technology
   The Design and Application of Interesting Versions of the Nazarov Cyclization in Natural Product Synthesis

17. Ramadhar, Timothy R.; University of Toronto
   Synthetic and Theoretical Investigations of Aryl- and Aliphatic-Claisen Rearrangements

18. Ratnikov, Maxim O.; University of Maryland
   Oxidation of Phenols as Versatile Methodology in Building Heterocycles

19. Shrestha, Ruja; University of Rochester
   Nickel-Catalyzed Reductive Conjugate Addition of Organic Halides to Enones to Form Silyl Enol Ethers
20. Sikervar, Vikas, Purdue University
   *Synthesis of Highly Substituted A-ring 1,25-Dihydroxyvitamin D3 Analogs from Diene Sulfone*

21. Smith, Genessa M.; Colorado State University
   *Progress Toward the Total Synthesis of Citrinadins A & B*

22. Steward, Kimberly M.; University of North Carolina at Chapel Hill
   *Strategies for the Synthesis and Use of β-Stereogenic α-Keto Esters*

23. Stivala, Craig E.; University of California, Santa Barbara
   *Direct Enantioselective Alkylation of Araylacetic Acids with Chiral Lithium Amides as Traceless Chiral Auxiliaries*

24. Tan, Yichen; University of Illinois at Urbana at Urbana-Champaign
   *Pd-Catalyzed Amination of C-H Bonds with Oxime Ester and Mechanistic Studies on Pd-Catalyzed Direct Arylation*

25. Taylor, Buck L. H.; University of California, Irvine
   *Stereospecific Cross-Coupling of Alkyl Ethers to Form Tertiary Stereocenters*

26. Topczewski, Joseph J.; University of Iowa
   *Cascade Cyclizations and the Schweinfurthins*

27. Wall, Brian D.; Johns Hopkins University
   *Design and Synthesis of π-Conjugated Oligopeptides to Tune π-π Interactions in Self-Assembled Bioelectronic Materials*

28. Watkins, Davita L.; University of Memphis
   *Synthesis and Photochromism Studies of Angled Spironaphthooxazine Dimer*

29. Worthy, Amanda D.; Boston College
   *Regio- and Stereoselective Reactions Using a Catalytic Directing Group*