49th National Organic Chemistry Symposium





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49th National Organic Chemistry Symposium [June 22-26, 2025] Rensselaer Polytechnic Institute (RPI) Troy, NY, USA



49th National Organic Chemistry Symposium

Rensselaer Polytechnic Institute Troy, New York June 22 – 26, 2025

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Welcome to Rensselaer Polytechnic Institute

On behalf of the Executive Committee of the Division of Organic Chemistry (DOC) of the American Chemical Society and the Department of Chemistry & Chemical Biology at Rensselaer Polytechnic Institute (RPI), we welcome you to the 49th National Organic Chemistry Symposium (NOS) as we celebrate the 100-year anniversary of this event. This biennial symposium is the premier event sponsored by the DOC and its goal is to present a roster of distinguished speakers that represent the breadth and creative advances of organic chemistry.

The first NOS was held in Rochester, NY in 1925 and a closer look at this historic symposium is provided below. The early organizers decided on a biennial sequence and the NOS has been held in odd-numbered years ever since, with two exceptions: WWII led to the 1943 and 1945 symposia being canceled and the COVID pandemic caused the 2021 NOS to be held in 2022. The NOS was been held in New York State five previous times (1925, 1933, 1935, 1957, and 1989) and so our theme this year is *Return to the Roots* as the NOS is once again being held in NY for the record sixth time.

In 1959, the Roger Adams Award was established, and it has been associated with the NOS from the start. The 49th National Organic Chemistry Symposium features 17 plenary speakers, including the 2025 Roger Adams Awardee, Eric N. Jacobsen of Harvard University.

The lectures will be held in the Concert Hall of the Curtis R. Priem Experimental Media and Performing Arts Center (EMPAC). The nightly poster sessions, featuring a total of over 250 posters, will be held in Studio 1 and Studio 2 in EMPAC. There is also optional afternoon programming: a lecture by Phaedria Maria St. Hilaire, two career panels, and the popular undergraduate context session. We are excited to welcome over 450 attendees to the NOS.

Rensselaer is honored to host this prestigious event on our historic Troy campus, where innovation and interdisciplinary collaboration are part of our core identity. We are proud to support the advancement of organic chemistry and the frontiers of chemistry and chemical biology. We are excited to provide a vibrant setting for the exchange of cutting-edge research, inspiring ideas, and new connections. We hope you enjoy the stimulating scientific program, the opportunity to engage with colleagues from around the world, and the warm hospitality of the Capital Region. The organizers have arranged several activities including a riverboat ride on the Hudson River and a tour of the New York State Capitol Building in downtown Albany. Additional attractions in the region are described at the end of this program book.

We thank all of our sponsors and exhibitors for providing generous financial support for the NOS. This critical support makes the NOS possible. We also wish to thank the dozens of organizers and volunteers who have helped plan this event. Finally, we thank *you* for attending and participating to help us celebrate the 100-year anniversary National Organic Chemistry Symposium.

Edward E. Fenlon 49th NOS Executive Officer Franklin & Marshall College Christopher L. Cioffi 49th NOS Local Chair Rensselaer Polytechnic Institute

The First NOS • 100 Years Ago

In late December 1925, around 175 organic chemists gathered for a symposium held at the Eastman School of Music in Rochester, NY. Most of them traveled by train and the weather was characteristically cold (the low was -5 °F a few days before). The 23 speakers were all men (the first woman to speak at the NOS was Marye Anne Fox in 1985), but they were not as monolithic as it first may appear (Figure 1). The chemistry they discussed ranged from the synthesis of dihydro-chaulmoogric acid, to catalytic reactions of acetylene, to cellulose chemistry, and from plant sterols to thiazole chemistry. Most of the speakers were from academic institutions, but four were industrial chemists. The industrial speakers at more recent NOS have been from the pharmaceutical industry, but in 1925, they were from the rubber, meat packing, and paper industries. Furthermore, five of the 23 speakers were immigrants to the US.



Figure 1. The 23 speakers at the 1st NOS. Industrial chemists indicated with * and immigrants indicated with † (Sweden, Scotland, Ukraine, Russia, and Belgium, respectively).

Like today, afternoon fieldtrips were part of the NOS in 1925. One trip was made to the Eastman Kodak laboratories and another to the University of Rochester Medical School. On Wednesday December 30 the chemists enjoyed a music and dance version of the "Merry Widow" which had been released as a silent film starring Mae Murray earlier in the year.

In closing, we turn to the remarks made in 1925 by M. T. Bogert of Columbia University, who served as the first Chair of the NOS. They remain relevant 100 years later.

What is more alluring than our own field of chemistry, and what more fascinating part has it than organic study? My wish for the coming year is that you many have faith to carry your work through and courage to make your scientific dreams come true.



Dr. Martin A. Schmidt President

June 22 - 26, 2025

Dear Friends,

It is my distinct pleasure to welcome you to the Rensselaer Polytechnic Institute campus for the 2025 American Chemical Society, Division of Organic Chemistry's National Organic Chemistry Symposium.

Since its founding, the National Organic Chemistry Symposium (NOS) has been a vital forum for advancing the frontiers of organic chemistry. By bringing together thought leaders, researchers, and students from across the country, this symposium serves as a catalyst for innovation, collaboration, and scientific discovery. Your work—spanning academic research, pharmaceutical breakthroughs, and technological applications—plays a crucial role in addressing some of society's most complex challenges.

Rensselaer is proud to host this prestigious gathering, and we are honored to support your mission to deepen our understanding of the molecular world. As you share knowledge and explore new ideas during your time here, I encourage you to take advantage of the spirit of inquiry and excellence that defines our campus community.

On behalf of the entire Rensselaer community, I thank you for your contributions to science and for your dedication to improving the human condition. Best wishes for a stimulating and successful symposium.

Sincerely,

Martin A. Schmidt President Rensselaer Polytechnic Institute



June 22 - 26, 2025

Dear Friends:

GOVERNOR

It is my pleasure to send greetings to everyone gathered for the 2025 American Chemical Society, Division of Organic Chemistry's National Organic Chemistry Symposium.

Since its inception, the National Organic Chemistry Symposium (NOS) has brought leaders together to highlight advances in their field. Organic chemists from across the country participate and learn from each other's work, including academic research and pharmaceutical innovations. Together, you aid in our understanding of the scientific world around us and how we can solve some of humanity's most pressing problems.

Today, you gather to share your discoveries and scholarly research, and expand your knowledge of organic chemistry. On behalf of all New Yorkers, I am grateful for your commitment to scientific pursuits. Best wishes for a successful symposium.





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PAUL D. TONKO U.S. HOUSE OF REPRESENTATIVES 20TH DISTRICT, NEW YORK

June 22, 2025

American Chemical Society Division of Organic Chemistry Rensselaer Polytechnic Institute 110 Eighth Street Troy, New York 12180

Dear Friends:

I am delighted to extend my greetings as you gather for the 49th National Organic Chemistry Symposium.

It is especially fitting that such a grand event be held at Rensselaer Polytechnic Institute, an institution renowned for its leadership in scientific and technological innovation for more than two centuries. As you celebrate 100 years of organic chemistry research and advancement, let me be the first to welcome you to New York's Capital Region.

The study of Organic Chemistry is vital to understanding the molecular processes that drive life. By understanding these processes, we can work to address complex problems with sustainable solutions. The National Organic Chemistry Symposium is an invaluable opportunity for members of the American Chemical Society Division of Organic Chemistry to increase their scientific knowledge, skills, and networks. Uniting scientists across the country under one organization gives you the opportunity to speak with one voice and elevate your issues and values on a national stage. This conference is a testament to the strength and success of your organization.

I extend my warmest welcome to this year's attendees and offer my sincere congratulations to the organizers of this fantastic event. I look forward to our continued friendship and many more gatherings in the future.

Good luck and best wishes!

Sincerely,

Fauls tonles

PAUL D. TONKO Member of Congress

PDT/am

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RPI Event Staff and Other Organizers

Join the Division of Organic Chemistry



https://www.organicdivision.org/join/



2025 NOS SPEAKER and EVENT SCHEDULE

All plenary lectures will be held in the Curtis R. Priem EMPAC Concert Hall. Posters sessions will be held in the EMPAC Studio 1 and Studio 2. The St. Hilaire talk, career panels, and undergraduate context session will be held in the Shirley Ann Jackson, Ph.D. Center for Biotechnology and Interdisciplinary Studies (CBIS) Isermann Auditorium.

SUNDAY, June 22

3:00 – 11:00 PM	Registration	EMPAC Lobby
8:30 – 11:00 PM	Poster Session & Exhibitors	EMPAC Studio 1 and Studio 2
	MONDAY, June 23	
7:30 AM – 12:00 PM	Registration	EMPAC Lobby
7:15 – 8:30 AM	Breakfast buffet	EMPAC Lobby
8:15 – 8:35 AM	Opening Remarks Edward E. Fenlon , Franklin & N Wilfredo Colón , RPI (Chair of G	EMPAC Concert Hall Marshall College (2025 NOS Chair) Chemistry & Chemical Biology)
8:35 – 8:45 AM	Poster Awards Sponsored by A	CS publications
Presider:	Amy Howell, U. of Connecticut	EMPAC Concert Hall
8:45 – 9:45 AM	Véronique Gouverneur , Oxford "Advances in Fluorine Chem Mind"	<i>l University</i> istry with Global Challenges in
9:45 – 10:45 AM	Francis Gosselin , <i>Genentech</i> "Asymmetric Catalysis and Da to Enable Breakthroughs in Pro	ta Science: A Potent Combination cess Chemistry"

10:45 – 11:10 AM	Break	
11:10 AM – 12:10 PM	Lou Charkoudian , <i>Haverford College</i> "Unearthing the innerworkings of polyketide synthases by leaning into the unexplored and unexpected"	
12:10 PM	Box Lunch	EMPAC Lobby
12:15 – 2:15 PM	Stewart's Ice Cream Social	EMPAC Lobby or Terrace
	Afternoon Programming	CBIS Isermann Auditorium
1:30 – 2:30 PM	Phaedria Marie St. Hilaire , <i>P M</i> "Inclusive Leadership and DEI Science"	<i>Consulting; cofounder of ProWoc</i> as a means to Excellence in
2:45 – 3:45 PM	Primarily Undergraduate Institu Rick Broene, <i>Bowdoin;</i> Lou Cl Jacobson, <i>Southern Idaho;</i> Jim Vyv	tion (PUI) Career Panel narkoudian, <i>Haverford;</i> Megan yan, Western Washington U.
Presider:	Leila Abrous, Cal St. San Marcos	EMPAC Concert Hall
6:30 – 7:30 PM	Neil Garg , <i>University of California Los Angeles</i> "Strained Intermediates and Chemical Education"	
7:30 – 8:30 PM	Morten Meldal <i>University of Cope</i> "Molecular Click Adventures: Treaction"	nhagen 'he intramolecular INAIC-click
8:30 – 11:00 PM	Poster Session & Exhibitors	EMPAC Studio 1 and Studio 2
	TUESDAY, June 24	
7:15 – 8:30 AM	Breakfast buffet	EMPAC Lobby
8:20 AM	Poster Awards Sponsored by Wiley-VCH	EMPAC Concert Hall
Presider:	Christopher Cioffi, RPI	EMPAC Concert Hall
8:30 – 9:30 AM	Karen Wooley , <i>Texas A & M Unia</i> "Sugar Plastics: An evolution of polymers from nanoparticle morphological metamorphoses to	<i>cersity</i> carbohydrate-derived synthetic targets to structural and commercial translation"

9:30 – 10:30 AM	Richard Gross , <i>Rensselaer Polytec</i> "Molecular editing of sophoro property relationships for diverse	<i>hnic Institute</i> lipids to interrogate structure- e applications"
10:30 – 11:00 AM	Break	
11:00 AM – 12:00 PM	Sidney Wilkerson-Hill, <i>University</i> "Orphaned Cyclopropanes"	y of North Carolina Chapel Hill
12:00 PM	Box Lunch	EMPAC Lobby
1:00 PM	Bus departs for Capt. JP Riverboa	at Cruise on the Hudson River
The Roger Adams Aw	ard Ceremony	EMPAC Concert Hall
6:30 – 6:45 PM	Robert E. Maleczka, Jr. , <i>Michigar</i> (Board of Directors and Treasure "Celebrating Eight Decades of O	1 State University r, Organic Reactions) rganic Reactions"
6:45 – 7:00 PM	John L. Wood , <i>Baylor University</i> , (Board of Directors, <i>Organic Synt</i> Presentation of the Roger Adams	Presider heses) 5 Award
7:00 – 8:30 PM	2025 Roger Adams Award Lectu <i>Harvard University</i> "Navigating Between the Wo Synthetic Chemistry"	re: Eric N. Jacobsen , orlds of Physical-Organic and
8:30 – 11:00 PM	Poster Session & Exhibitors	EMPAC Studio 1 and Studio 2
	WEDNESDAY, June 25	i
7:15 – 8:30 AM	Breakfast buffet	EMPAC Lobby
8:20 AM	Poster Awards Sponsored by Wiley-VCH	EMPAC Concert Hall
Presider:	Emily McLaughlin, Bard College	EMPAC Concert Hall
8:30 – 9:30 AM	Daniel Romo , <i>Baylor University</i> "Pharmacophore-Directed Ret Synthesis with SAR Gathering to Studies of Natural Products"	rosynthesis: Merging Total to Inform Mechanism of Action

9:30 – 10:30 AM	Amanda Hargrove , University "Strategies to modulate the co with small molecules"	<i>y of Toronto</i> onformation and function of RNA
10:30 – 11:00 AM	Break	
11:00 AM – 12:00 PM	Heather Maynard , University "Responsive Conjugates for D	of California Los Angeles Drug Delivery″
12:00 PM	Box Lunch	EMPAC Lobby
1:00 PM	Bus departs for NYS Capitol E History and Art, and Empire	Building, Albany Institute of State Plaza
	Afternoon Programming	CBIS Isermann Auditorium
1:00 – 2:25 PM	Undergraduate Context Sess Ron Brisbois, <i>Macalester Colleg</i> Sarah Tasker, <i>Franklin & Mars</i>	ion ge; Jeff Katz, Colby College; shall College
2:30 – 3:30 PM	Industry Career Panel Jen Allen <i>, Amgen;</i> Jacqui Hoffr Daniel Zell <i>, Genentech</i>	CBIS Isermann Auditorium man, <i>Pfizer;</i> Stephen Lathrop <i>AbbVie;</i>
	WEDNESDAY, June 25 (e	vening)
Presider:	Andy McNally, Colorado State	e U. EMPAC Concert Hall
6:30 – 7:30 PM	Jennifer Allen , Amgen "A Day in The Life of a Medic Sotorasib"	cinal Chemist – Discovery of
7:30 – 8:30 PM	David Leigh , University of Ma "Giving Chemistry Direction"	inchester '
8:30 – 11:00 PM	Poster Session & Exhibitors	EMPAC Studio 1 and Studio 2
	THURSDAY, June 2	26
7:15 – 8:30 AM	Breakfast buffet	EMPAC Lobby
8:20 AM	Poster Awards Sponsored by ACS publication	EMPAC Concert Hall

Presider:	Mingji Dai, Emory University	EMPAC Concert Hall
8:30 – 9:30 AM	Melanie Sanford , University of "Diverse Synthetic Approaches Formation"	<i>Michigan</i> for Carbon-Fluorine Bond
9:30 – 10:30 AM	Keary Engle, <i>Scripps Institute</i> "Advances in Programmed Alk	ene Functionalization"
10:30 – 11:00 AM	Break	
11:00 AM – 12:00 PM	Craig Crews , Yale University "Developing Novel Induced Pr PROTACs and Beyond"	oximity Therapeutic Modalities:
12:00 – 12:20 PM	Mingji Dai , Emory University 2027 NOS Chair Closing Remarks	
12:20 PM	Box Lunch	EMPAC Lobby
12:20 PM	End of NOS. See you in 2027.	



Véronique Gouverneur Oxford University Oxford, United Kingdom

Mon June 23 at 8:45 AM

Advances in Fluorine Chemistry with Global Challenges in Mind

The Gouverneur laboratory has developed new approaches for the synthesis of fluorochemicals for applications in the life and material sciences. This work has enhanced our fundamental understanding of alkali metal fluoride reactivity, and led to the invention of hydrogen bonding phase transfer catalysis (HBPTC), a new concept in organocatalysis opening new opportunities in organic chemistry. In this lecture, the discussion will focus on innovative approaches aimed at addressing the challenges currently facing the fluorochemical industry. A specific highlight is the demonstration that it is possible to convert naturally occurring fluorspar (CaF₂) into complex fluorochemicals applying a method that bypasses the necessity to manufacture hydrofluoric acid, a toxic and highly dangerous acid. Another recent advance is the design of a method for the destruction of PFAS coupled with fluorine recovery in the spirit of a circular fluorine economy.



Francis Gosselin Genentech Research & Early Development South San Francisco, CA, USA

Mon June 23 at 9:45 AM

Asymmetric Catalysis and Data Science: A Potent Combination to Enable Breakthroughs in Process Chemistry

High-throughput experimentation, augmented with data science, enabled the identification and development of a highly atroposelective Negishi cross-coupling for the long-term manufacturing process of KRAS^{G12C} covalent inhibitor GDC-6036 (divarasib).¹ The success of these efforts prompted the development of a broadly applicable chiral bisphosphine computed parameter open-source database to enable applications in asymmetric catalysis to support the Genentech pipeline.² Recent examples leveraging consecutive asymmetric transformations, establishing enantioselective entries into sulfonimidamides, and improved deoxyfluorination reagents will also be presented.³⁴



¹ Grosslight, S.; Mack, K.; Nguyen, S.; Clagg, K.; Lim, N.-K.; Timmerman, J.; Shen, J.; White, N.; Sirois, L.; Han, C.; Zhang, H.; Sigman, M.; Gosselin, F. *J. Am. Chem. Soc.* **2022**, *144*, 20955-20963. (b) Xu, J.; Lim, N.-K.; Timmerman, J.; Shen, J.; Clagg, K.; Orcel, U.; Bigler, R.; Trachsel, E.; Meier, R.; White, N.; Burkhard, J.; Sirois, L.; Tian, Q.; Angelaud, R.; Bachmann, S.; Zhang, H.; Gosselin, F. *Org. Lett.* **2023**, *25*, 3417–3422.

² Dotson, J.; van Dijk, L.; Timmerman, J.; Grosslight, S.; Walroth, R.; Püntener, K.; Gosselin, F.; Mack, K.; Sigman, M. J. Am. Chem. Soc. **2023**, 145, 110–121.

³ van Dijk, L.; Haas, B. C.; Lim, N.-K.; Clagg, K.; Dotson, J. J.; Treacy, S. M.; Piechowicz, K. A.; Roytman, V. A.; Zhang, H.; Toste, F. D.; Miller, S. J.; Gosselin, F.; Sigman, M. S. *J. Am. Chem. Soc.* **2023**, *145*, 20959–20967.

⁴ Haas, B. C.; Lim, N.-K.; Jermaks, J.; Gaster, E.; Guo, M. C.; Malig, T. C.; Werth, J.; Zhang, H.; Toste, F. D.; Gosselin, F.; Miller, S. J.; Sigman, M. S. J. Am. Chem. Soc. **2024**, 146, 8536–8546.



Lou Charkoudian Haverford College Haverford, PA, USA

Mon June 23 at 11:10 AM

Unearthing the innerworkings of polyketide synthases by leaning into the unexplored and unexpected

Microorganisms produce structurally complex and diverse molecules with a range of medicinally relevant properties. Our undergraduate research team is interested in understanding and harnessing this remarkable biochemical feat to gain sustainable access to molecules that can better human health. We are particularly interested in developing innovative strategies for studying two central components of type II polyketide synthases: acyl carrier proteins (ACPs) and ketosynthase - chain length factors (KS-CLFs). These proteins are critical to the biosynthesis of the polyaromatic class of polyketides that have a profound track record for serving as anticancer and antibiotic agents. In this talk, I will share how we used inferred evolutionary history to identify previously unexplored type II polyketide synthase biosynthetic gene clusters as a reservoir for ACPs and KS-CLFs with unique properties. I will also present how we have expanded access to ACPs in their active "holo" form through the discovery of new phosphopantetheinyl transferases and the strategic engineering of ACPs to confer their compatibility with traditionally used phosphopantetheinyl transferases. Throughout the discovery process we have embraced unexpected results to develop novel site-specific vibrational spectroscopy and mechanistic crosslinking methodologies to study important, transient interactions of biosynthetic proteins. Finally, I will connect how this work has laid a foundation for our ongoing efforts to reconstitute the biosynthesis of type II polyketides in vitro and access 'new-to-nature' type II polyketides via combinatorial biosynthesis. We hope our research-- which spans organic chemistry, biochemistry and chemical education – will be of interest to a broad audience, and we welcome opportunities for collaboration with the NOS community.





Neil K. Garg University of California, Los Angeles Los Angeles, CA, USA

Mon June 23 at 6:30 PM

Strained Intermediates and Chemical Education

 π -Bonds are typically associated with having well-defined arrangements of atoms. However, when the arrangement of atoms associated with these bonds becomes geometrically distorted due to ring constraints, heightened reactivity is seen. As a result, molecules with complex structures can be rapidly assembled from simple building blocks, typically using mild reaction conditions.

This presentation will feature several geometrically-distorted transient intermediates recently studied in our laboratory. Cyclic allenes, cyclic 1,2,3-trienes, anti-Bredt olefins, and other unusual species will be discussed. In addition, this presentation will emphasize the importance of chemical education and showcase some of our efforts to promote organic chemistry education on a local and global scale.





Morten Meldal University of Copenhagen Copenhagen, Denmark

Mon June 23 at 7:30 PM

Molecular Click Adventures: The intramolecular INAIC-click reaction

The presentation will take you through the journey of the 2022 chemistry Nobel Prize. During the development solid phase organic combinatorial chemistry, we investigated a large variety of reactions for merger with peptide diversity. It was during this development we discovered the extreme Cu(1) catalysis of triazole formation from azides and alkynes leading to the CuAAC click reaction. We also attempted to use peptide-linked aldehydes as electrophiles for a range of external nucleophiles. However instead, we observed the entropy driven formation of hydroxylactams with further transformation into highly reactive N-acyliminium ions through reaction of the aldehydes with upstream amide bonds. This allowed for one of the richest collections of peptide-based heterocycle templates to be accessed through an acid catalyzed intramolecular N-acyliminium tandem cascade (INAIC) reaction of the aldehyde electrophile, first with one nucleophile, then with a second side chain or backbone nucleophile, both driven by entropy and with complete stereo-control.¹ In addition, carbamides could also be used as a first nucleophile leading to another range of novel molecular scaffolds through the INCIC reaction including heterocycles with interesting fluorescent properties.² The fluorescence properties of the novel scaffolds could be developed through mild oxidation conditions and were environment dependable. For both reactions, the heterocycle formation could be performed either during or after assembly of the peptide precursors.

(1) Nielsen, T. E.; Meldal, M. Solid-phase intramolecular N-acyliminium Pictet-Spengler reactions as crossroads to scaffold diversity. *J. Org. Chem.* **2004**, *69* (11), 3765-3773.

(2) Diness, F.; Beyer, J.; Meldal, M. Solid-phase synthesis of tetrahydro-beta-carbolines and tetrahydroisoquinolines by stereoselective intramolecular N-carbamyliminium Pictet-Spengler reactions. *Chemistry* **2006**, *12* (31), 8056-8066.



Karen L. Wooley Texas A&M University College Station, TX, USA

Tue June 24 at 8:30 AM

Sugar Plastics: An evolution of carbohydrate-derived synthetic polymers from nanoparticle targets to structural and morphological metamorphoses to commercial translation

A primary interest in the Wooley laboratory is the production of functional polymers from renewable sources that are capable of reverting to those natural products once their purpose has been served. A long-standing focus has been the development of synthetic methodologies that transform sugars, nucleic acids, amino acids and other natural products into polymer materials. This approach allows for the production of functional polymers from renewable sources that are capable of reverting to those natural products once their purpose has been served. This holistic life cycle approach is of importance from the perspectives of sustainable sourcing of materials feedstocks, while creating mechanisms for breakdown of the polymer materials after useful lifetime is complete, and providing for biological and environmental resorption of breakdown products. The overall process impacts the need to address the increasing accumulation and associated hazards of plastic pollution from the environmental persistence of non-degradable, petrochemically-sourced polymer systems. Moreover, inherent diversities of natural products provide opportunities to expand the scopes, complexities and properties of polymers, by utilizing fundamental organic chemistry approaches. This presentation will provide historical perspectives of Wooley's journey toward sustainable polymer chemistry and its ultimate translation to carbohydrate-derived plastics commercially. It will also reflect upon the future of polymer materials, with particular emphasis on sourcing of feedstocks and in-built degradability and digestibility to address sustainability, and with interests in the design of next-generation plastics that meet important societal needs while allowing for dynamic reconfigurability and avoiding health, welfare, and environmental adversities.



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- 1) Tran, D. K.; Braaksma, A. N.; Andras, A. M.; Boopathi, S. K.; Darensbourg, D. J.; Wooley, K. L. J. Am. Chem. Soc., 2023, 145, 18560-18567, DOI: <u>10.1021/jacs.3c05529</u>.
- 2) Shen, Y.; Leng, M.; Yang, Y.; Boopathi, S. K.; Sun, G.; Wooley, K. L. J. Am. Chem. Soc., 2023, 145(28), 15405-15413, DOI: 10.1021/jacs.3c03339.
- 3) Shen, Y.; Yang, X.; Song, Y.; Tran, D. K.; Wang, H.; Wilson, J.; Dong, M.; Vazquez, M.; Sun, G.; Wooley, K. L. *JACS Au*, **2022**, 2(2), 515-521, DOI: <u>10.1021/jacsau.1c00545</u>.
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Richard A. Gross Rensselaer Polytechnic Institute Troy, NY, USA

Tue June 24 at 9:30 AM

Molecular editing of sophorolipids to interrogate structure-property relationships for diverse applications

Sophorolipids (SLs) are glycolipid biosurfactants, produced by non-pathogenic yeasts such as Starmerella bombicola, in yields approaching 200 g/L. However, natural SLs have significant shortcomings such as the low water solubility of lactonic SLs (LSL) and the low surface activity of acidic SL (ASL). To improve upon nature's design for a wide range of applications, a suite of modified sophorolipids (MSL) was synthesized by integrating chemical and biocatalytic tool sets. SL n-alkyl esters comprise a group of MSLs obtained by the ring-opening of LSL. Micellar selfassembly behavior as a function of SL-ester chain length was studied. A series of molecularly edited SL-esters were evaluated at oil-water interfaces for their ability to reduce interfacial tension (IFT) and generate stable emulsions. For example, with almond oil, an increase in the *n*alkyl ester chain length from ethyl to hexyl resulted in a maximum %-decrease in the IFT from 86.1 to 95.3, respectively. Furthermore, the critical aggregation concentrations (CACs) decreased from 0.035 to 0.006 mg/mL with increase in the ester chain length from ethyl to n-decyl. The antimicrobial activity of modified SLs against Gram-positive human pathogens is a function of both the *n*-alkanol chain length and the degree acetylation at primary hydroxyl sites. Natural and modified SLs possess anti-cancer activity against a wide range of cancer cell lines. Comparison of the cytotoxicity of diacetate LSL and diacetate SL-ethyl ester on MDA-MB-231 breast cancer cells shows the former has higher cytotoxic efficacy that is similar to doxorubicin. However, improvements in the therapeutic index are needed for clinical use. Piscidins (P) are host defense peptides (HDPs) from fish. We demonstrate that, by combining SL-hexyl ester with subinhibitory concentration of P1 and P3 stimulates strong antimicrobial and anticancer synergy, potentiating a promising therapeutic window. Finally, we will discuss bioresorbable polymers formed by the ring-opening cross metathesis that converts natural LSL to poly(sophorolipids).





Sidney Wilkerson-Hill University of North Carolina at Chapel Hill Chapel Hill, NC, USA

Tue June 24 at 11:00 AM

Orphaned Cyclopropanes

Small molecules isolated from the flowers of *chrysanthemum cinerariifolium*, known as pyrethrins, have long been used as natural insecticides. Synthetic derivatives of these compounds (i.e., pyrethroids) are now used on metric ton scale in our daily lives to combat mosquitoes in residential areas and are a key pillar of vector control programs to combat malaria in developing countries. New pyrethroids with enhanced performance properties are desperately needed, however, to combat developing resistance in insects and to reduce off-target toxicity. The goal of the Hill group is to develop new reactions to rapidly obtain small molecule leads to novel pyrethroids. To accomplish these goals, my research group is developing new reactions to functionalize strained rings; 2) obtaining a mechanistic understanding of Group 10 metal alkylidenes; and 3) discovering new reagents that serve as carbene precursors.

Herein we disclose two projects focused on developing methods to obtain more highly strained carbocycles (strain energy > 27 kcal/mol). First, we have developed a method to obtain spiro[2.2]pentanes by reacting sulfone anions with alkylidenecyclopropanes (16 examples, 24–81% yield). When cyclopropylsulfone anions were reacted with styrenes, a formal C–H insertion reaction took place (14 examples, 24–79% yield). Separately, we have found NHC-Pd(0) alkylidenes are uniquely capable of producing bicyclo[2.1.0]pentanes (housanes) via palladacyclobutane intermediates (19 examples 37–89% yield). When phosphoramidite ligands are used to support Pd(0) carbenes, allylic C–H insertion products are obtained (8 examples, 51–88% yield). This unique divergent reactivity sets the stage for the synthesis of novel pyrethroids.



The Roger Adams Award in Organic Chemistry



The Roger Adams Award in Organic Chemistry is sponsored jointly by the American Chemical Society (ACS), *Organic Reactions*[®], and *Organic Syntheses, Inc.* The award recognizes the distinguished career of Roger Adams, who played a vital role in each of these three organizations. He served as the Chairman of the Board of Directors and as the President of the American Chemical Society and he co-founded *Organic Syntheses* and *Organic Reactions*, serving as volume editor and editor-in-chief for each of the latter.

The award was established in 1959 and is made biennially to an individual, without regard to nationality, for outstanding contributions to research in organic chemistry. The award consists of a gold medal and a \$25,000 honorarium. It is presented at the biennial National Organic Chemistry Symposium of the ACS Division of Organic Chemistry. The awardee is a featured lecturer in the program of the symposium, held this year at Rensselaer Polytechnic Institute in Troy, NY.

The recipient of this year's award is Eric N. Jacobsen, the Sheldon Emery Professor of Chemistry at Harvard University, for outstanding contributions to the conceptualization, application, and mechanistic understanding of catalyst design for asymmetric synthesis.

Roger Adams Awardees

1959 - Sir Derek H. R. Barton
1961 - Robert B. Woodward
1963 - Paul D. Bartlett
1965 - Arthur C. Cope
1967 - John D. Roberts
1969 - Vladimir Prelog
1971 - Herbert C. Brown
1973 - Georg Wittig
1975 - Rolf Huisgen
1977 - William S. Johnson
1979 - Melvin S. Newman
1981 - Nelson J. Leonard

1983 - A. R. Battersby 1985 - Donald J. Cram 1987 - Jerome A. Berson 1989 - George A. Olah 1991 - Gilbert J. Stork 1993 - Elias J. Corey 1995 - Barry M. Trost 1997 - K. Barry Sharpless 1999 - Dieter Seebach 2001 - Ryoji Noyori 2003 - Albert Eschenmoser 2005 - Jerrold Meinwald 2007 - Samuel J. Danishefsky 2009 - Andrew Streitwieser 2011 - Robert H. Grubbs 2013 - David A. Evans 2015 - Larry E. Overman 2017 - Hisashi Yamamoto 2019 - Stephen L. Buchwald 2021 - Kendall N. Houk 2023 - Carolyn R. Bertozzi **2025 - Eric N. Jacobsen**



2025 Roger Adams Awardee

Eric N. Jacobsen Harvard University Cambridge, MA, USA

Tue June 24 at 7:00 PM

Navigating Between the Worlds of Physical-Organic and Synthetic Chemistry

Throughout my group's efforts over the past 37 years to discover new asymmetric catalytic reactions, we have had occasion to perform deep mechanistic analyses of several of the catalysts we have discovered, often using the enantioselectivity of the catalysts as a primary tool to obtain deep insight into critical transition states. The marriage of physical-organic and synthetic approaches led us to broadly useful concepts such as electronic tuning of chiral catalysts, homo- and hetero-catalytic cooperativity, noncovalent catalysis, and formal elucidation of catalyst generality. This lecture will provide an overview of some of our key findings, and then focus on our more recent efforts aimed at the elucidation and discovery of general catalytic systems based on new classes of chiral dual H-bond donors. Detailed case studies on the mechanism of enantioinduction with these catalysts highlight the cooperative features of these simple organic molecules that are both reminiscent and fundamentally different from those of enzymes.



blue = catalytic "engine" red = secondary recognition elements



Daniel Romo Baylor University Waco, TX, USA

Wed June 25 at 8:30 AM

Pharmacophore-Directed Retrosynthesis: Merging Total Synthesis with SAR Gathering to Inform Mechanism of Action Studies of Natural Products

The complex architecture and often potent bioactivity of natural products frequently serve as an embarkation point for the exploration of biologically-relevant chemical space. Total synthesis followed by derivative synthesis has historically enabled a deeper understanding of structure-activity relationships (SAR) for natural product classes. However, synthetic strategies toward a natural product are not always guided by hypotheses regarding minimal structural features required for bioactivity, *i.e.* a proposed 'pharmacophore'. Inspired by Wender's ideas of function-oriented synthesis, we recently began approaching the chemical synthesis of natural products through the lens of what we call pharmacophore-directed retrosynthesis (PDR). In this strategy, a hypothesized, minimal 'pharmacophore' of a natural product with unknown cellular target is selected as an early synthetic target and sequential increases in complexity toward the natural product guide our retrosynthetic analysis. Importantly, this approach has led to the identification of simplified natural product congeners retaining bioactivity while also informing attachment points for the synthesis of cellular probes for cellular target identification. In a recent variation of this strategy toward curromycin A, we recognized that alkynes could be used as both synthetic intermediates and proteomic probes enabling cellular target identification of increasingly complex curromycin A congeners. To date, we have applied PDR to gracilin A and rameswaralide and are currently applying this strategy to several natural products including ophiobolin A, curromycin A, salarin C and talaromynoid H. Selected stories of applying PDR to bioactive natural products, bolstered by several enriching and fruitful biological collaborations, will be presented.





Amanda E. Hargrove University of Toronto Mississauga, Ontario, Canada

Wed June 25 at 9:30 AM

Strategies to modulate the conformation and function of RNA with small molecules

Small molecules offer a unique opportunity to target structural and regulatory elements in therapeutically relevant RNAs, but understanding functional selectivity has been a recurrent challenge in small molecule:RNA recognition. RNAs offer less differentiating chemical functionality than proteins and sample multiple conformations that can each impact function. We have used organic synthesis, machine learning and a variety of biophysical and cell-based assays to reveal patterns in the chemical and structural properties of bioactive RNA ligands as well as RNA topological space privileged for differentiation. We have applied these principles to several disease-relevant systems. We have tuned diiminazene-based small molecules to functionally modulate different RNA tertiary structures in the oncogenic long noncoding RNA MALAT1, leading to either monofunctional degraders or tailored manipulation of RNA:protein interactions. We have also developed RNA-targeted antivirals for enterovirus (EV71) and SARS-CoV-2, revealing a novel allosteric mechanism of small molecule: RNA targeting.





Heather D. Maynard University of California, Los Angeles Los Angeles, CA, USA

Wed June 25 at 11:00 AM

Responsive Conjugates for Drug Delivery

This talk will focus on responsive peptide prodrugs, polymer conjugates, and polymeric nanoparticles to enhance the therapeutic efficacy of protein and small molecule therapeutics. The rational design, synthesis, and preclinical evaluation of these materials will be discussed. In particular, materials that respond to enzymes, chemical triggers and reductive pH will be described, with a focus on therapeutics for diabetes and pain management. Emphasis will be placed on the design and synthesis of linkers for this purpose (Figure 1). In addition, the synthesis of depside analogs will be presented, along with their antimicrobial activity.



Figure 1. Hydroxybenzylammonium compounds for reversible protein conjugation (modified from *JACS*, **2022**, *144*, 6050 and *Chem. Sci.* **2024**, *15*, 10448)



Jennifer Allen Amgen Ventura County, CA, USA

Wed June 25 at 6:30 PM

A Day in The Life of a Medicinal Chemist – Discovery of Sotorasib

KRAS is one of the most frequently mutated oncogenes in human cancer. Despite more than three decades of research, indirect approaches targeting *KRAS*-mutant cancers have largely failed to show clinical benefit, and direct approaches have been stymied by the apparently 'undruggable' nature of KRAS. I'll describe efforts at Amgen to identify cysteine-reactive molecules capable of selectively inhibiting a prevalent KRAS mutation, KRASG12C. These efforts leveraged iterative screening and structural biology studies, property-based optimization, and careful process engineering to ultimately deliver a highly potent, selective, and well-tolerated inhibitor of KRASG12C: LUMAKRAS[®] (sotorasib).



David A. Leigh University of Manchester Manchester, United Kingdom

For a musical introduction, see '*Nanobot*': <u>https://bit.ly/2M5Zwdl</u>

Wed June 25 at 7:30 PM

Giving Chemistry Direction

Over the last three decades examples of synthetic molecular machines and motors¹ have been developed,² albeit they are primitive by biological standards. Such molecules are best designed to work through statistical mechanisms.³ In a manner reminiscent of Maxwell's Demon,⁴ random thermal motion is rectified through ratchet mechanisms,^{3–10} giving chemistry direction.

It is increasingly being recognised that similar concepts can be applied to other chemical exchange processes.¹¹ Ratchet mechanisms—effectively chemical engines¹² in which catalysis^{5,7-9} of 'fuel' to 'waste' is used to drive another chemical process—can cause directional impetus in what are otherwise stochastic systems, including endergonic chemical reactions.¹³ This is ushering in a new era of non-equilibrium chemistry, providing fundamental advances in functional molecule design and the first examples of molecular robotics,^{14,15} overturning existing dogma and offering fresh insights into biology and molecular nanotechnology.



[1] The Nobel Prize in Chemistry 2016–Advanced Information. Nobelprize.org. Nobel Media AB 2014. Web. 6 Oct, 2016, http://www.nobelprize.org/nobel_prizes/chemistry/laureates/2016/advanced.html. [2] "Rise of the molecular machines", Angew. Chem. Int. Ed. 54, 10080 (2015). [3] "Molecular ratchets and kinetic asymmetry: Giving chemistry direction", Angew. Chem. Int. Ed. 63, e202400495 (2024). [4] "A molecular information ratchet", Nature 445, 523 (2007). [5] "An autonomous chemically fuelled small-molecule motor", Nature 534, 235 (2016).
[6] "Rotary and linear molecular motors driven by pulses of a chemical fuel", Science 358, 340 (2017). [7] "A catalysis-driven artificial molecular pump", Nature 594, 529 (2021). [8] "Autonomous fuelled directional rotation about a covalent single bond", Nature 604, 80 (2022). [9] "Transducing chemical energy through catalysis by an artificial molecular motor", Nature 637, 594 (2025). [10] "A tape-reading molecular ratchet", Nature 612, 78 (2022).
[11] "Design, synthesis and operation of small molecules that walk along tracks", J. Am. Chem. Soc. 132, 16134 (2010). [12] "Chemical engines: Driving systems away from equilibrium through catalyst reaction cycles", Nat. Nanotechnol. 16, 1057 (2021). [13] "Ratcheting synthesis", Nat. Rev. Chem. 8, 8 (2024). [14] "Sequence-specific peptide synthesis by an artificial small-molecule machine", Science 339, 189 (2013). [15] "Stereodivergent synthesis with a programmable molecular machine", Nature 549, 374 (2017).



Melanie Sanford University of Michigan Ann Arbor, MI, USA

Thurs June 26 at 8:30 AM

Diverse Synthetic Approaches for Carbon-Fluorine Bond Formation

This presentation will discuss recent methods development for C-F bond formation, including thermal, electrochemical, and transition metal catalyzed reactions involving diverse precursors with an emphasis on reaction design and mechanistic considerations.





Keary M. Engle The Scripps Research Institute La Jolla, CA, USA

Thurs June 26 at 9:30 AM

Advances in Programmed Alkene Functionalization

Alkenes are inexpensive and widely available feedstocks derived from petroleum or renewable resources. The Engle lab focuses on developing novel catalytic alkene functionalization reactions that selectively introduce functional groups at both alkenyl carbon atoms in a controlled manner. This approach allows the direct transformation of simple starting materials into densely functionalized, stereochemically defined products, which can then serve as building blocks for complex target molecules, including important pharmaceutical agents. This talk will highlight the evolution of strategies across different metals and redox manifolds, ranging from directing auxiliaries to native and transient directing groups, and eventually to non-directed approaches. Mechanistic studies have uncovered how interactions between substrates, metals, and ligands enable these transformations, informing the design of new catalysts through an iterative feedback loop.



M (cat.), [Nu], [E]

combinatorial
regioselective
stereoselective

E, **Nu** = H, C, O, N, F, *etc.*


Craig M. Crews Yale University New Haven, CT, USA

Thurs June 26 at 11:00 AM

Developing Novel Induced Proximity Therapeutic Modalities: PROTACs and Beyond

The Crews lab uses 'Applied Chemical Biology' to develop novel therapeutic modalities. Enzyme inhibition has proven to be a successful paradigm for pharmaceutical development, however, it has several limitations. Alternatively, for the past 20+ years, my lab has focused on developing Proteolysis Targeting Chimera (PROTAC), a new 'controlled proteolysis' technology that overcomes the limitations of the current inhibitor pharmacological paradigm. Based on an '*Event-driven*' paradigm, PROTACs offer a novel, catalytic mechanism to irreversibly inhibit protein function, namely, the intracellular destruction of target proteins. This approach employs heterobifunctional molecules capable of recruiting target proteins to the cellular quality control machinery, thus leading to their degradation. We have demonstrated the ability to degrade a wide variety of targets (kinases, transcription factors, epigenetic readers) with PROTACs at picomolar concentrations. Moreover, the PROTAC technology has been demonstrated with multiple E3 ubiquitin ligases and now multiple PROTAC-based drug candidates are being tested in clinical trials for both oncology and non-oncology indications.



PROTAC: PROteolysis TArgeting Chimera

Afternoon Programming: MONDAY June 23

These sessions will be held in the Shirley Ann Jackson, Ph.D. Center for Biotechnology and Interdisciplinary Studies (CBIS) Isermann Auditorium.

1:30 – 2:30 PM

Presider: Geetu Sharma, RPI



Phaedria Marie St. Hilaire P M Consulting Cofounder of ProWoc (<u>https://prowoc.org</u>) Copenhagen, Denmark

Inclusive Leadership and DEI as a means to Excellence in Science

Despite being under fire in recent years, it is well established that diversity and inclusion in an organization leads to superior results and greater collective excellence, provided the teams are well managed. During this talk, I will delve into the unique challenges faced by women and other members of underrepresented groups in the workplace as they ascend to senior roles. Participants will obtain an analysis of the current landscape, focusing on issues such as unconscious and cultural biases, microaggressions, and systemic barriers that often impede progress. We will discuss the role of inclusive leadership in promoting inclusion and present other strategies that successfully promote a more equitable work environment where everyone feels valued, respected, and empowered to contribute their unique perspectives.

2:45 – 3:45 PM

Primarily Undergraduate Institution (PUI) Career Panel

Rick Broene, *Bowdoin*; Lou Charkoudian, *Haverford*; Megan Jacobson, *Southern Idaho*; Jim Vyvyan, *Western Washington U*.

Come learn about teaching and research at PUIs. The panel has broad experience from institutions that range from selective liberal arts colleges, to public universities, to community colleges.

Afternoon Programming: WEDNESDAY June 25

These sessions will be held in the Shirley Ann Jackson, Ph.D. Center for Biotechnology and Interdisciplinary Studies (CBIS) Isermann Auditorium.

1:00 – 2:25 PM

Undergraduate Context Session

Ron Brisbois, Macalester College Jeff Katz, Colby College Sarah Tasker, Franklin & Marshall College

About 20% of the attendees at this year's National Organic Symposium are undergraduate chemists (~90 people). Although undergraduate participants can most often grasp the overarching issue(s) of seminar and poster presentations, their backgrounds do not always permit them to instantaneously register understanding of such things as named reactions and experimental techniques invoked.

This Undergraduate Context Session provides a collegial venue in which students can ask the kinds of clarifying questions—from simple definitional aspects to reaction mechanisms to spectroscopic methods to people and chemical history—they would not feel comfortable asking from the floor of an NOS session. The Context Session is moderated by PUI faculty who solicit questions from undergraduates in attendance.

In an effort to enhance connections between the undergraduates attending the Context Session, the first opportunity to "go to the board" and provide an explanation to any question is offered to undergraduates with background in those specific areas. The faculty moderators, and other advanced students and faculty who are present, weigh in with further comments only after undergraduates have had the chance to edify each other as a function of their different backgrounds. We welcome and encourage participation from undergraduates, graduate students, postdoctoral researchers, scientists from industry, and faculty at all levels.

2:30 – 3:30 PM

Industry Career Panel

Jen Allen, Amgen; Jacqui Hoffman, Pfizer; Stephen Lathrop AbbVie; Daniel Zell, Genentech

Come and learn about careers in industry. The panel represents pharmaceutical companies but welcomes questions concerning any industrial career path.

NOS Travel Awards

The following 50 attendees are recognized for their achievements with a Division of Organic Chemistry Travel Award to the 2025 NOS. Special thanks to Jon D. Rainier for coordinating the travel award process.

Undergraduate Student Travel Award Recipients

Brady Birkenholtz	Central College
Nikolas Bodnar	University of Connecticut
Rachel Brozenec	Illinois State University
Jacob Bundesmann	Worcester Polytechnic Institute
Nathan Coddington	University of California, Riverside
Quentin Ervin	Illinois State University
Emma Fallon	Albertus Magnus College
Dagoberto Grijalva-Flores	University of Colorado, Denver
Emma Horton	Ball State University
Katelynn McPhee	Purdue University - Fort Wayne
Minh Tran	Lawrence University
Rocco Vargas	Southeastern University

PUI Faculty Travel Award Recipients

Trinity University
Macalester College
Pennsylvania State University, Behrend
Lawrence University
Northern Michigan University
Providence College
Mass. College of Pharmacy & Health Sciences
Towson University
Lake Forest College
Central College
United States Coast Guard Academy

NOS Travel Awards (continued)

Graduate Student Travel Award Recipients

Laila Aiad	University of Minnesota
Joy Alende	Illinois State University
Kevin Blanco-Herrero	University of California, Davis
Suman Das	Indiana University
Serena DiLiberti	University of Minnesota
Vivek Gangadharan Pillai	University of Rochester
Constantinos Gofas	California State Polytechnic University, Pomona
Partha Hazra	Indiana University
Cheng-En Hsieh	University of California, Davis
Emily Jimenez	University of Michigan
Zhao Liu	San Diego State University
Keith McGee	University of Colorado, Denver
Hannah Mulliner	University of Bristol
Maryam Nazari	University of Minnesota
Joseph Nsabaah	Illinois State University
Tolulope Oluborode	Illinois State University
Masoumeh Rahim	University of Memphis
Jagrut Atul Shah	Stony Brook University
Neetu Sharma	Indiana University
Darshika Singh	Michigan State University
Griffin Stewart	Northwestern University
Olivia Taylor	University of California, Riverside
Po-Sen Tseng	University of Georgia
Zoe Wachtel	University of Michigan
Jason Wu	Cornell University
Wen Xiu	Purdue University
Sara Zerangnasrabad	Auburn University

Poster Sessions

The poster sessions will be held nightly in EMPAC Studio 1 and Studio 2. Four poster awards will be selected by the judges each night. These awards will be given to the recipients each morning of the symposium. Special thanks to Annabel Ansel, Andrew Freiburger, and Brian Myers for coordinating the poster submission and scheduling and to all of the poster judges. The poster sessions are sponsored by ACS publications and Wiley-VCH publications.

Poster #	Poster Title	Authors (*presenting)	Affiliation
S1	1,2-Diamination of alkenes via 1,3- dipolar cycloaddition with NNN compounds	Setyareh Saryazdi, Ugochukwu Odagwe, Robert B. Grossman*	University of Kentucky
S2	A Green Update to Benadryl Synthesis in the Organic Teaching Lab	3/c Isaac Adkins, 3/c Laurel Davis, 3/c Liliana Feyk, 1/c Stone Grant, 3/c Katie Kogler, 2/c Jayden Lomax, 3/c Alexander McKinnon, 3/c Mackenzie Murnane, 3/c Riley Ritter, 3/c Lily Rivera, 3/c Gabrielle Sanchez, 3/c Mei Lei Urbanski, 2/c Hannah Van Cise, 3/c Lauren Wong, Dr. Sarah Zingales*	United States Coast Guard Academy
53	A Kinetic Switch for Accessing Halogenated Medium-Sized Rings or Spiroketals	Nicholas Wills, Ankush Chakraborty, JiaoJiao Wang Babak Borhan	Michigan State University
S4	A Three-Step Method for the Preparation of N-Substituted 3,4- Dihydroisoquinolin-1(2H)-ones and Heteroaryl-Fused 3,4-Dihydropyridin- 2(1H)-ones from 2-Bromobenzoate Precursors	Ethan E. Cramer*, Emily E. Freeman, Randy Jackson, Jessica Luo, Rajen Somwaru, Alex Sons, Andy Bean, Ronald N. Buckle and R. Jason Herr	Medicinal Chemistry Department, Curia Global, Inc.
S5	A Unified Approach to Vicinal Functionality	Justin J. Chang*, Munnu Kumar, Misato Okatomo, Emily Sophia Vergara- Pimentel, Daniel K. Kim	Temple University

S= Sunday; M = Monday; T = Tuesday; W = Wednesday

S6	Applications of Photocatalyst-Induced Solvent Activation in N- Demethylation	Lindsay Repka*, Natalie Pinerio, Bruck Setu, Kailey Gagne, Abdul Abubakari, Angel De Pacina, Ariane Goldin	Middlebury College
S 7	Bench-stable Co(III) Complexes as a Platform for Carbonyl Additions and Natural Product Synthesis	Shayne M. Weierbach*, Cylah A. Bruno, Olivia A. Brown, Jean M. Bray, Karen Vargas, and Kyle M. Lambert	Old Dominion University, Department of Chemistry and Biochemistry
S 8	Bifunctional Organocatalysts for Amide Bond Formation	Kimberly A. W. Reid 1, Randy Sutio 1, Jack M. Ranani 1, Brennah E. Slaney 1, Christophe Allais 2, Johnny W. Lee 2, and Christopher Sandford* 1,3	1. Dartmouth College; 2. Pfizer Chemical Research and Development; 3. University of Texas at San Antonio
S 9	Boron Enabled Interrupted de mayo reaction via Energy Transfer	Neetu Sharma*, Evan piper, Yanyao Liu, Kevin Brown	Indiana University of Bloomington
S10	Boron-directed sp3 C-H Activation Reaction	Partha S Hazra*, Makaya Robinson, M. Kevin Brown	Indiana University- Bloomington
S11	Building up Starting material Towards Novel Rearrangement.	Joseph Nsabaah*, Andy Mitchell	Illinois State University
S12	Chemoselective Electrochemical Coupling of Thioethers and Primary Amines for Accessing Sulfilimines and Sulfoximines	Sukwoo Lee*, Jonas Rein, Evan Weingarten, Song Lin	Cornell University
S13	Cycloisomerization of N-allyl Bicyclobutane Amides	Dilhumar Uyghur, Karis Texidor, Noah Wiese, Lindsey O. Davis*, Mandy Green, Matteo Borgini	Augusta University
S14	Withdrawn		
S15	Dearomative Intramolecular (4+3) Cycloadditions of Epoxy Enolsilanes with Benzene Derivatives	Chan Long Ying*, Pauline Chiu	The University of Hong Kong

S16	Deconstructive Alcohol Functionalization via Titanium Photocatalysis	Jagrut A. Shah 1*, Ashley Lojko 1, Zilu Tang 1, Yetong Lin 1, Emma Scher 1, Celeste Barefoot 2, and Jeffrey M. Lipshultz 1	1. Dept of Chemistry, Stony Brook University, NY; 2. Department of Chemistry & Biochemistry, University of North Carolina Wilmington, Wilmington, North Carolina
S17	Deoxyradiofluorination of Phenols with a Bespoke Difluoromethoxy Nucleofuge Enabled by Organic Photoredox Catalysis	Maulik Mungalpara*, Xuedan Wu, Xinrui Ma, David Nicewicz, Zibo Li	The University of North Carolina at Chapel Hill
S18	Development of Gas-Releasing Molecules Using a Thiol Carrier	Taylor Weiss*, Henry Tavens*, Tatyana Ulman*, Dr. Sarah Tasker	Franklin & Marshall College
S19	Development of Nickel Catalyzed Reductive Cross Coupling Reactions of Carbonyls with Electrophiles	Anika Monga*, Jarrod Stanley*, Chandana Sunil*, Elizabeth Jaekle, Yuriko Fujisato, John Montgomery	University of Michigan
S20	Development of the Intermolecular halo-Nazarov Four-Component Coupling Cascade	Michael A Piacquadio*, Benjamin Kozloff, Connor Holt, Georgios Alachouzos, Jackson J Hernandez, Alison Frontier	University of Rochester
S21	Direct Acylation of Aryl and Alkyl Bromides via Nickel-Catalyzed Aldehyde C–H Functionalization	Sean Calvert 1*, Leo Vermaak 2*, Austin Ventura 3, John Montgomery	University of Michigan
S22	Electrochemical Activation of α- Carbonyl Alkoxyamines for Direct Substitution	John Putziger*, Song Lin	Cornell University
S23	Electrochemical Approaches to Reductive Transformation in Organic Synthesis	Yihuan Lai*, Arjun Halder, Jaehwan Kim, Thomas J. Hicks, Phillip J. Milner	Cornell University
S24	Embedded-Base Electrophiles for Decarbonylative C–H Functionalization	Robert Wolesensky*, Frances Gu, Brooke Dunnery, Melanie Sanford	University of Michigan

S25	Exhaustive Additions of Grignard Reagents to 3-oxocyclobutane Carboxylic Acid	Constantinos Gofas*, Dr. Thomas Osberger	California State Polytechnic University - Pomona
S26	Exploiting new Chemical Pathways for the Synthesis of Diazepines and Benzodiazepines	Dominic Rivera, Alyssa Singer, Adam Wyatt, Jenna Doran, Amari Howard	Rowan University
S27	Formation of Derivatized Benzocyclobutenes via Palladium- Catalyzed Alkene Difunctionalization	Robert L. King*, Calliope A. Cutchins, Colin J. Priest, John P. Wolfe	University of Michigan
S28	HFIP-Mediated Retro-Henry Reaction of trans-beta-Nitrostyrenes	Olivia Gottschall*, Xiaoran Lui, Juan G. Navea, Jessada Mahattananchai	Skidmore College
S29	Intramolecular PCET of α-Keto Acids: Synthesis of Trifluoromethyl Ketones via Ketyl Radicals	Rifat N. Nabi*, Kimberly A. Jarquin, Anupam Karmakar, Kyle E. Brunner, Daniel K. Kim.	Temple University
S 30	Investigations into a Method for Catalyst-Controlled, Site-Selective Olefination and Amination of Indoles	Thomas M. Reimer*, Kuang Gu, Brandon L. Ashfeld	University of Notre Dame
S31	LMCT Catalysis with Discrete, Tunable Titanium Complexes for Selective Radical Chemistry	Yetong Lin, Ashley Lojko, Jagrut A. Shah, Zilu Tang, Emma Scher, Noah Schwartzapfel, and Jeffrey M. Lipshultz	Department of Chemistry, Stony Brook University
S32	Mechanistic Investigation of Pyridoxal-Inspired Photochemical Decarboxylation of Unprotected Amino Acids	Dr. Dong-Hang Tan, Agniva Das, Vincent Huang, Dr. Timothy D. Schoch, Abubakar Lawal Mohammed, Prof. Jeffrey M. Lipshultz	Department of Chemistry and Institute of Chemical Biology and Drug Discovery, Stony Brook University
S33	Mechanochemical Synthesis of enamino carbonyl compounds: Ball milling synthesis.	Maqhawe Ndlovu*, Diego Fernandez, Tej Beniwal, Jay Patel, Akhil Pinnapareddy, Nathan Kotchkin, Jayden Hristov, Joshua Soranno, Syed R Hussaini.	University of Tulsa

S34	Metal-Free Addition of Alkyl Bromides to Access 3,3-Disubstituted Quinoxalinones Enabled by Visible Light Photoredox Catalysis	David Hunter, Jennie Liao, Cheng Wang, Ugochinyere Nancy Oloyede, Joseph McLaughlin, Abdellatif El Marrouni	Merck and Co.
S35	Metallodioxirane Catalysis for the Functionalization of Activated Alkenes	Alyssa N. Singer*, Steven J. Finneran, Erin L. Doran, Jenna M. Doran, Amari M. Howard, Dominic A. Rivera	Rowan University
S36	Microdroplet Chemistry Facilitates Unique Short-chain RNA Oligomer Formation	Samantha E. Pryor* 1,2; Vincent S. Riggi 1,2; Morgan F. Schaller 1; Jacob T. Shelley 1,3	1. Dept. of Earth & Environmental Sciences, Rensselaer Polytechnic Institute; 2. Rensselaer Astrobiology Research and Education Center, Rensselaer Polytechnic Institute; 3. Dept. of Chemistry and Chemical Biology, Rensselaer Polytechnic Institute
S37	Mild and Efficient Cs2CO3-Promoted Synthesis of Silyl (Dithio-)Carbonates and Silyl (Dithio-)Carbamates	Phillip Gray III*, Colby Lavigne, Ralph Salvatore PhD	Ralph Salvatore- University of South Florida, Southeastern University, Phillip Gray III- Southeastern University, Colby Lavigne- Southeastern University
S38	N–O Tether-Enabled Net Intermolecular [5+2] Cycloaddition: A Preliminary Study	Tolulope Oluborode*, Andy Mitchell	Illinois State University
S39	New developments in LMCT photocatalysis utilizing discrete, stable titanium complexes	Ashley Lojko*, Jagrut Shah, Yetong Lin, Emma Scher, Zongle Wei, and Jeffrey Lipshultz	Stony Brook University
S40	Nickel-Catalyzed Oxidative Cross- Dehydrogenative Coupling	Ammar F. Ibrahim*, Austin M. Ventura*, Yuriko H. Fujisato*, Paul M. Zimmerman, John Montgomery	University of Michigan

S41	Palladium-Catalyzed Alkene Difunctionalization Reactions for the Synthesis of Bioactive Small Molecules	Siqi Dong*, Matthew Culberson, Andrew Cruz, Anaise Thomas, John Wolfe	University of Michigan
S42	Phenpropyl and Phenethylamine Synthesis and Evaluation of SERT Inhibition	Evelyn S. Galgano* and Timothy J. Barker	College of Charleston
S43	Phosphorylation: Ideal Reaction for Development of Chemoselective Catalysts and Novel Reagents	Bianca Sculimbrene*, Kathleen Stathoulopoulos, Audrey Ihlefeld, Nora Brink, Ella Lynch-Bartek, Abigail Kellogg, Stephen Meier	College of the Holy Cross
S44	Photocatalysis for Polymer Synthesis	Neely Burns, Jacelyn Escovar, Thomas McPherson, Hannah Paul, Meredith A. Borden*	Department of Chemistry, Trinity University
S45	Photocatalytic Alkene Hydrofunctionalization Utilizing Modular Acridine-Lewis Acid Complexes	Emily Jimenez*, Daniel S. Brandes, Matthew R. Lasky, Olusayo J. Ogunyemia, Siqi Dong, Theodore Goodson III, Melanie S. Sanford	University of Michigan
S46	Photocatalytic C(sp3)–H Functionalization Enabled by Ligand- to-Metal Charge Transfer	Jun Luo, Jujhar Singh, Yongming Deng	Department of Chemistry and Chemical Biology, Indiana University Indianapolis, Indianapolis, Indiana 46202, United States
S47	Photocatalytic Iminyl Radical Cyclization for the Synthesis of Quinazolinones	Erin E. Gray*, Neissa Usanase, Jensen L. Rocha, Joyce Yoo, Hanbich Lee, Hannah A. Spencer, Mohammed Albotabeekh, Janeth A. Sandoval	Washington and Lee University
S48	Preparation of N-Protected Benzylic Amines by Nickel/Photoredox Dual Catalysis: A Program Developed for the Education and Training of Summer Research Interns	Emily Holman, Marwah Albaker, Alexi Martin and R. Jason Herr*	Medicinal Chemistry Department, Curia Global, Inc.

S49	Radical fluorination: Method development and mechanistic insights	Jessica Bluitt*, Mathew Vetticatt	Binghamton University
S50	Radical innovations using electricity for site-selective reactions	Eva Maria Alvarez 1*, Griffin Stewart 1, Jinxiao Li 1, Chris Rapala 1, Mohammed Ullah 1, Remy Lalisse 2, Osvaldo Gutierrez 2, Christian Malapit 1	1.Northwestern University; 2. University of California, Los Angeles
S51	Robust Aluminium-Based Metal- Organic Frameworks Facilitate Photochemical Fluoroalkylations Using Fluorinated Gases	Jiachen He 1*, Joharimanitra Randrianandraina 2, Husain Adamji 3, Valerie Chang 1, Yihuan Lai 1, Heather J. Kulik 3, Jung- Hoon Lee 2, Phillip J. Milner 1	Cornell university
S52	Semi-Reduction of Benzamides to Imines Using a Mixed Aluminum Hydride Reagent	Keith P. Reber*, Neechi Okwor, Grace Vaillancourt, Jennafer Buckshaw	Towson University
S53	Solvent-Free Transfer Hydrogenation by a Hantzsch Amide	Anthony C. O'Donnell, Allie E. Marks, Y Dang, Dylan M. Brandt, Robert Palkovitz, Jonathan Liu, Alisa Wang, Audrey Kinney, Jackie Guo, Bailey Sparks, Scott A. Van Arman*	Franklin & Marshall College
S54	Strategies for the synthesis of divinyl amines	Adam J. Wyatt*, Dominic Rivera, Alyssa Singer, Jenna Doran, Amari Howard, Gustavo Moura- Letts	Rowan University
S55	Surprising rearrangement of pyrone- Amides	Joy Alende*, John Goodell, Andy Mitchell	Illinois State University
S56	Synthesis and Reactivity of Mucononitriles	Liam Murphy*, Adam Zahara, Sidney Wilkerson- Hill	The University of North Carolina at Chapel Hill

S57	Synthesis of Benzooxazepines from Oxaziridines and Dipolaraphiles	Amari M. Howard*, James L. Stroud, Dominic A. Rivera, Gustavo Moura- Letts	Rowan University
S58	Synthesis of Phenpropylamines	Hannah E. Ford* and Timothy J. Barker	College of Charleston
S59	Synthesis of Quaternary Homobenzaldehydes by Zinc- Mediated Palladium-Catalyzed a- Arylation of Silyl Enol Ethers	Angelina C. Graf*, Liv R. Alleyne, Ashlynn B. Van Lare, Ritter V. Amsbaugh, and Benjamin J. Stokes	Santa Clara University
S60	Synthesis of Thioethers via a Hypervalent Iodine-Catalyzed Thiol- Ene Reaction	Zarine Gidwaney*, Sachin Balasubramanian*, Stephanie De Jesus*, Dr. Sarah Tasker	Franklin & Marshall College
S61	Synthesizing Materials for Research on (5+2) Cycloadditions	Rachel Brozenec*, Andy Mitchell	Illinois State University
S62	Sythesis of cyclopropanes using alkylsulfones as carbene equivalents	Charles R. Teeples*, J. Douglas Johnson, J. Cabell Metts, Timothy A. Lewis, Charlotte A. Ridgway, Sidney M. Wilkerson-Hill	The University of North Carolina at Chapel Hill
S63	The Base-Mediated Rearrangement	Dr. Andy Mitchell, Quentin Ervin	Illinois State University
S64	The Reductive halo-Nazarov cyclization for the construction of substituted halo-cyclopentenes.	Benjamin Kozloff*, Michael Piacquadio, Georgios Alachouzos, Alison Frontier	University of Rochester
S65	Transition Metal-Free Methods to Make C-N and C-B Bonds	Alexis Z. Hamilton, Samson W. Hill, Ben P. Cerkovnik, Katilin M. Ervine, Daniel J. Nasrallah*	Roanoke College
S66	Trifluoromethylborylation of Unactivated Alkenes	Hieu H. Nguyen*, Silas P. Cook	Indiana University, Bloomington
S67	Updates and Improvements to the Wagner-Jauregg Reaction	Samuel S. Tartakoff*	St. Lawrence University
S68	Visible Light Mediated Alkene Functionalization	Samyadev Giri, Ramesh Giri	The Pennsylvania State University

S69	Wireless Electrosynthesis using Light- Harvesting Microelectronic Devices	Bartosz Górski1†, Jonas Rein 1†*, Samantha Norris 2, Yanxin Ji 2, Paul L. McEuen 2, Song Lin 1 †Contributed equally and listed in an alphabetical order	1. Department of Chemistry and Chemical Biology, Cornell University; 2. Department of Physics, Cornell University
S70	Zirconium-Catalyzed Reductive Sulfonamidation of Amides and Its Application to Site-Selective N- Alkylation of Pharmaceuticals	Abhishek Raj*, Weiheng Huang, Chabush Haldar, Liela Bayeh-Romero	Baylor University
M1	[13]Graphanyl-X: Expanding the 3D Saturate Chemical Space	Alex K.H. Chu*, Antonio Rizzo, Pauline Chiu	The University of Hong Kong
M2	[2+2] Cycloadditions of Strained Cyclic Allenes	Allison T. Hands*, Noah W. Gilbertson, Matthew S. McVeigh, Jacob P. Sorrentino, and Neil K. Garg	University of California, Los Angeles
М3	7-Membered Cyclic Allenes as Building Blocks for Heterocycle Synthesis	Georgia M. Scherer*, Benjamin A. Janda, Lauren Q. Van Auken, and Neil K. Garg	University of California, Los Angeles
M4	A Divergent C–H Functionalization Approach Toward Delavatine A and Constitutional Isomers	Emily Y. Fok 1*, Alexander Kremsmair 1, Silvia Rizzo 1, Ambre Carpentier 2, Robert Paton 2, Richmond Sarpong 1	1. University of California, Berkeley; 2. Colorado State University
M5	A Solution to the anti-Bredt Olefin Synthesis Problem	Zach G. Walters*, Luca McDermott, Sarah A. French, Allison M. Clark, Jiaming Ding, Andrew V. Kelleghen, K. N. Houk, and Neil K. Garg	University of California, Los Angeles
M6	Asymmetric Cyclopropanation on Dirhodium (II,II) Paddlewheel Complexes with Tethered Axially Coordinated Chiral Ligands	Ernest Bennin 1*, Ryan Oconnell 2	1. The University of Tennessee; 2. The University of Notre Dame
M7	Asymmetric Mannich Reactions Catalyzed by Configurationally Stable Half-Sandwich Ruthenium Complexes	Gabriel Negrao de Morais, Shuming Chen*	Oberlin College

M8	Asymmetric Rh-Catalyzed Synthesis of Dihydronicotinamides	Sara Zerangnasrabad*, Rashad Karimov	Auburn University
M9	Asymmetric Total Synthesis of (–)- Verrucarol	John F. McCleerey Jr., Madison H. Powers, Anh Tran, James McNeely, Jeffrey Bacon, John A. Porco Jr.	Boston University; Vertex Pharmaceuticals
M10	Atropisomeric beta-Carbolines in Undergraduate Research	Seann P. Mulcahy*	Providence College
M11	Azafluorenones: Toward Stable Radical Intermediates and Fluorescent Probes	Alexander Holland*, Amanda Stebner, Chris Abelt, Jonathan Scheerer	The College of William & Mary
M12	Bioinspired Total Synthesis of Abyssomicin 2 and Neoabyssomicin B	Hannah M. Mulliner 1*, Sbusisiwe Z. Mbatha 1, Paul R. Race 2, Martin A. Hayes 3 and Christine L. Willis 1.	 School of Chemistry, University of Bristol, Bristol; School of Natural and Environmental Sciences, Devonshire Building, Newcastle University, Newcastle- Upon-Tyne; 2. Biopharmaceuticals R&D, AstraZeneca, Mölndal, Sweden
M13	C3-Symmetrical Prolineamide Organocatalyst for Asymmetric Aldol Reactions	Jian Liang, Ender Harris, Jacob Cortez, Michael Koogle, Josua Hybert, Rev Derek Baluyut, Yu Liu*	Northern Michigan University
M14	Concise Total Synthesis of (–)- Pensubrubine Using an Interrupted Fischer Indolization Strategy	Jiaming Ding*, Allison T. Hands, Lucas A. Wein, Nathan J. Adamson, John M. Billingsley, Yi Tang, and Neil K. Garg	University of California, Los Angeles
M15	Conjunctive Cross-Coupling: Development of Alkene Carboboration Reactions	Suman Das*, Maeve A. Reilly, Stanna K. Dorn, Allison M. Pearson, and M. Kevin Brown	Indiana University Bloomington

M16	Control Site-Selective and Enantioselective C-H Functionalization of Arylcyclohexanes	Duc Ly 1*, Yannick T. Boni 1, Korkit Korvorapun 2, Volker Derdau 2, John Bacsa 1, Djamaladdin G. Musaev 1, and Huw M. L. Davies 1.	1. Department of Chemistry, Emory University; 2. Sanofi- Aventis Deutschland GmbH, R&D, Integrated Drug Discovery, Germany.
M17	Crystallization-Enabled and Dearomatization-Enabled Methods to Access Chiral Non-Racemic Building Blocks	Aidan Clarkson*, Seth O. Fremin, Hazel Liu, Bryn K. Werley, Kimberly A. Alley, Jacob G. Robins, Shubin Liu, Jeffrey S. Johnson	University of North Carolina at Chapel Hill
M18	Crystallization-Induced Selectivity: Case Studies from Discovery Programs at AbbVie	Stephen N. Greszler*, David A. Degoey, Pamela L. Donner, Kristine E. Frank, Nathan J. Gesmundo, Michael A. Leitch, Augustine Osuma, Ashley L. Ramos, John T. Randolph, Anurupa Shrestha, Eric A. Voight, Matthew P. Webster, Michael D. Wood, Gang Zhao	AbbVie, Inc. North Chicago, IL
M19	Curcumin Anchored Titanium Complexes for Photocatalysis	Ajaya Sankara Warrier*, Paul Knotts, Ryan Quick, and Kolton Smouse	West Virginia University
M20	Design of Crosslinkable Poly(phthalaldehyde) Derivatives	Kaitlin E. Hopper*, J. Patrick Lutz	St. Lawrence University
M21	Design, Synthesis, and Stability Studies of Promesogenic Amine Capping Ligands for CdSe/ZnS Quantum Dots	Jasmine Q. Vu*, Ashlynn B. Van Lare, Paige S. Morihara, Nicholas J. C. Licauco, Isabella C. Reyes, and Benjamin J. Stokes	Santa Clara University
M22	Development and Characterization of a New Generation of Photo-activated Platinum Catalysts for Silicone Polymer Cross-linking	Patrick J. Landry*, Peter J. Bonitatibus Jr., K. V. Lakshmi	Rensselaer Polytechnic Institute

M23	Development of a Scalable Route for ABBV-576 Leveraging Multiple Process Technologies	Stephen P. Lathrop*, Nicholas J. Hafeman, Aleksandra Holownia, Jesse Brown, Nick Rosano, Kartik Kamat, Kenneth Engstrom, Jeffrey M. Kallemeyn	AbbVie Inc., North Chicago, IL
M24	Diastereoselective Synthesis of a Common Tetramethylaminocyclobutanol Building Block: Chemo- and Biocatalytic Manufacturing Process	Daniel Zell 1*, Guy Pillon 1, Hans Iding 2, Johannes A. Burkhard 1, Lauren E. Sirois 1, Chong Han 1, Francis Gosselin 1	 Genentech, Inc., Department of Synthetic Molecule Process Chemistry, Genentech, Inc., South San Francisco, California, United States; Department of Process Chemistry and Catalysis, F. Hoffmann-La Roche Ltd., Basel, Switzerland
M25	Divergent Stereochemistry Transfers from Chirality to Alkene Geometry	Mingxin Liu, Vibha Kanale, Christopher Uyeda	Purdue University
M26	Enantiocontrolled Cyclization to Form Chiral 7- and 8-Membered Rings Unified by the Same Catalyst Operating with Different Mechanisms	Nicolò Tampellini*, Brandon Q. Mercado, Scott J. Miller	Yale University
M27	Enantioselective Olefin Aminooxygenation via Organo-iodine Catalysis	Zhichang Yin*, Fan Wu, Alex M. Nguyen, Kristi Shrestha, Navdeep Kaur, Prabagar Baskaran, Madison Martin Erickson, Chloe E. Villa, Sara K. Colombo, Michelle M. Huynh, Wei Li	The University of Toledo
M28	Enantioselective Palladium-Catalyzed Radical Allylic Alkylation	Dhanyaj Narayanan Nampoothiry *, Eric Dobias, Thomas N Snaddon	Indiana University Bloomington

M29	Enantiospecific Synthesis and Immunological Insights into MDP- Inspired Glycopeptides for Enhancing Subunit Vaccine Efficacy	Sana Yaqoob*,1,2 Zi-Hua Jiang,3 Farooq-Ahmad Khan1,2	1. Third World Center for Science and Technology, ICCBS, University of Karachi, Pakistan; 2. H.E.J Research Institute of Chemistry, ICCBS, University of Karachi, Pakistan; 3. Department of Chemistry, Lakehead University, Ontario, Canada
M30	Functionalization of controlled pore glass supports containing a terminal amine	Keith McGee	University of Colorado Denver
M31	HalA-guided, Stereoablative Total Synthesis of (+)-Napyradiomycin A1	Behrad Masoudi*, Saeedeh Torabi Kohlbouni, Nastaran Salehi Marzijarani, Matthew Ochoa, Arvind Jaganathan, Olivia Diakantonis, Richard J. Staples, Babak Borhan	Michigan State University
M32	HFIP Solvent Effects on Enantioselectivity of Dirhodium Tetracarboxylate-Catalyzed Cyclopropanation	Turki M. Alturaifi 1, Kristin Shimabukuro 2*, Jack C. Sharland 2, Binh Khanh Mai 1, Evan A. Weingarten 2, Mithun C. Madhusudhanan 1, Djamaladdin G. Musaev 3, Peng Liu 1, Huw M. L. Davies 2	1. Department of Chemistry, University of Pittsburgh, 2. Department of Chemistry, Emory University, 3. Cherry L. Emerson Center for Scientific Computation, Emory University
M33	High-throughput electron diffraction in the XtaLAB Synergy-ED	Robert Bucker 1, Mathias Meyer 2, Michal Jasnowski 2, Mateusz Idzi 2, Jessica Burch 3*	1. Rigaku Europe SE, Neu- Isenburg, Neu-Isenburg, Germany; 2. Rigaku Oxford Diffraction, Wrocław, Wrocław, Poland; 3. Rigaku Americas, The Woodlands, TX

M34	Insights into nanoparticle surface bonding and coating architecture by multinuclear solution-phase NMR spectroscopy	Jacob D. Aubrey 1*, James Gibson 1, John T. Leman 1, Benjamin M. Yeh 2, and Peter J. Bonitatibus Jr. 1	1. Chemistry and Chemical Biology, Rensselaer Polytechnic Institute, Troy, NY; 2. Department of Radiology and Biomedical Imaging, University of California San Francisco,
M35	Ionic liquid systems for cellulose integration and epoxy biocomposite fabrication	Andrea Szpecht*, Dawid Zielinski, Marcin Smiglak	Poznan Science and Technology Park, Poland
M36	Isoquinoline Derivatives from Merged Cycloaddition/Cycloreversion Sequences with 1,4-Oxazinone Precursors	Jae Lee*, Jessica Richmond*, Lauren Mullaney, LC Thompson, David Zhao, Jonathan R. Scheerer	College of William and Mary
M37	Lewis Acid Catalyzed Diels-Alder Reaction Between Electron-Rich Partners	Muhammad Taha Qureshi*, Syed Raziullah Hussaini	The University of Tulsa
M38	Modular Synthesis of Phenazine- Based Aggregation Induced Emission Materials	Viktorija Miseljic*, R. Nacif- Pimenta, Brian H. Northrop	Wesleyan University
M39	Pharmacophore-Directed Retrosynthesis Applied to Colletotrichone A	Joel G. Yoder 1*, Wei Ding 2, Stephan Sieber 2, Daniel Romo 1	1. Baylor University, Department of Chemistry and Biochemistry; 2. Technical University of Munich, Germany, School of Natural Sciences
M40	Pharmacophore-Directed Retrosynthesis Applied to Talaromynoid H: Synthesis of Highly Oxygenated Tetracyclic Core	Adam J Youman*, Chelsea M. Kelley, Phillip Z. Junghans, Daniel Romo	Baylor University
M41	Pharmacophore-Directed Retrosynthesis Applied to the Ophiobolin Family	Jaquelin Aroujo*, Yongfeng Taoa, Abigail Hillsa, Keighley Reisenauerb, Haleigh Parkerb, Santha Rangananthanb, Joseph H. Taubeb, and Daniel Romo	Baylor University

M42	Phosphine-Catalysed Polarity Inversion Annulation for Cyclopentane Synthesis	Chenxi Zhang 1*, Jeremy T. Maddigan-Wyatt 1, Xuan Nguyen 1, Antonia Seitz 1, Martin Breugst 2, David W. Lupton 1. Alexander I. Wright 1, Chenxi Zhang 1*, Jing Cao 1, Yuji Nakano 1, Lucia J. Sanchez 1, Julia DeBono 1, Sankeert Kapatkar 1, Gregory L. Challis 1, David W. Lupton 1.	1. Monash University, Australia; 2. Technische Universität Chemnitz 2, Germany
M43	Physiochemical Properties of Diosgenin-Graphene Oxide-Fe3O4 Nanocomposite and Its Encapsulation into Cyclodextrins and Chitosan	Khaled Q. Shawakfeh*	Jordan University of Science & Technology, Irbid, 22110, Jordan
M44	Progress towards the Synthesis of Austin	Đức Phan*, John L. Wood	Baylor University
M45	Progress Towards the Total Synthesis of the Ansamycin Family of Natural Products	Toan Ho*, Joshua Pierce	Department of Chemistry and Integrative Sciences Initiative, NC State University
M46	Rearrangements of oxy-substituted allyl silanes	Darshika Singh*, Emmanuel W. Maloba, Robert E. Maleczka, Jr.	Michigan State University
M47	Shedding light on alkene aziridination: Visible light photocatalysis with N- aminopyridinium ylides	Gwendolyn E. Jamison*, Zachary P. Burmeister*, Emily C. McLaughlin	Bard College
M48	Silanols – From Ligand Design in Enantioselective Catalysis to Blue Light Reactions	Kevin Blanco-Herrero*, Yun-Pu Chang, Turki Alturaifi, Peng Liu, Annaliese K. Franz*	University of California - Davis; University of Pittsburgh
M49	Stereoselective Alkylation of Auxiliary-Bound Amino-Ketones	Ian D. Terell*, Jeffrey S. Cannon	Occidental College

M50	Supported Ionic Liquid-Phase Materials (SILP) as Stable Modifiers and Hardeners for Epoxy Composites	Dawid Zielinski 1*, Andrea Szpecht 1, Rafal Kukawka 1, Joanna Dzialkowska 2, Mariusz Pietrowski 2, Michal Zielinski 2, Magdalena Palacz 1, Paulina Nadobna 1, Marcin Smiglak 1	1. Poznan Science and Technology Park, Poland; 2. Adam Mickiewicz University, Poland
M51	Synthesis and Utilization of a Paracyclophane Derived Planar Chiral Catalyst for Asymmetric C-N Bond Formation	Wesley Pullara*, Simon Blakey	Emory University
M52	Synthesis of Azide-Conjugated Prodrugs for Targeted Cancer Therapy	Marc A. Torres, B.S 1*, Dhiraj K. Jha, M.S 1, Bobae Park, Ph.D. 2, Yaguang Liu, M.D., Ph.D. 2, Bandana Chatterjee, B.S., M.S., Ph.D. 2, John CG. Zhao, M.S., Ph.D. 1	University of Texas at San Antonio, University of Texas Health Science Center
M53	Synthesis of bis-benzoxazolones and bis-benzimidazolinones for cholinesterase inhibition	Sophia Tallon*, Veronika Anastasiadis*, Todd J. Eckroat	Penn State Behrend
M54	Synthetic and structure–function studies of the gukulenins	Vaani Gupta 1*, Zechun Wang 1, Joshua B. Combs 1 2, Timothy Wright 1 3, Lei Chen 1 4, Boxu Lin 1 5, Ryan Holmes 1 6, Bo Qin 1 7, Joonseok Oh 1 8, Jason M. Crawford 1 9, and Seth B. Herzon 1 9.	 Yale University; 2. University of California– San Francisco; 3. University of Toronto Mississauga, Canada; 4. Nanjing Gritpharma Co., Ltd., China; 5. Peking University, China; 6. Prelude Therapeutics; 7. New York University; 8. Amgen Inc; 9. Yale School of Medicine.
M55	Synthetic Progress towards Materials with Potential for Carbon Capture	Jay Wm. Wackerly*	Central College
M56	Synthetic Strategies for Novel 2,7- Naphthyridine Compounds as MASTL Inhibitors	Stephanie Scales*, Madeline Berry, Rebecca A. Gallego, Paul Richardson, Michelle Tran-Dubé, Fen Wang, Shouliang Yang and Indrawan McAlpine	Pfizer Oncology Medicinal Chemistry

M57	The Concise Synthesis of abeo-Steriod Bufogargarzin B	Zoey Surma*, Eugene Zviagin, Volodymyr Hiiuk, and Pavel Nagorny.	University of Michigan
M58	The ReactALL Platform: Testing and Application to Process Development	Russell Algera, Melissa Lee*, Sebastien Monfette, Truong Nguyen	Pfizer
M59	The Synthesis of Novel Acylated Proflavine Derivatives	Kathryn M. Pogue*, Samuel S. Tartakoff	Saint Lawrence University
M60	Total Synthesis of (+)–Eburnamonine via Asymmetric Alkene Cyanoamidation and C–CN Bond Activation	Serena DiLiberti*, Matt S. Eastwood, Sadie C. Otte, and Christopher J. Douglas	University of Minnesota - Twin Cities
M61	Total Synthesis of Complex Pyrroloiminoquinone Alkaloids	C. Foster Graf*, Joseph P. Tuccinardi, James T. Olsen, John L. Wood	Baylor University
M62	Total Synthesis of Cycloartobiloxanthanone	Cheng-En Hsieh*, Sarah N. Dishman, Linda Ung, Tony E. Dorado, and Jared T. Shaw	University of California, Davis
M63	Total Synthesis of Rupestines H and I	Aimee Long, James R. Vyvyan*	Western Washington University
M64	Visible light-induced cyclobutane synthesis: Intermolecular [2 + 2] cycloadditions with vinylogous ester and amide heterocycles	Maximus G. Schultz*, Alexandria J. Thomas, Maryam Mohibby, Amirat Maiyegun, Emily C. McLaughlin	Bard College
M65	Wavelength-Orthogonal Optodynamics to Overcome the Statistical Limitations of Interfacial Photopolymerizations	Georgios Toupalas*, Timothy M. Swager	Department of Chemistry, Massachusetts Institute of Technology
M66	Wittig and Wagner-Jauregg Reactions in the Production of Morphine Analogs	Kaitlyn Barton 1*, Chase Smith 2*, Samuel Tartakoff	Saint Lawrence University
M67	Optimization of Cu(II)-catalyzed C-O cross-coupling reaction for the synthesis of structurally complex vinylic ethers	San L. Pham*, Frank E. McDonald	Department of Chemistry, Emory University

T1	1,2-Acyl Transposition through Photochemical Skeletal Rearrangement of 2,3- Dihydrobenzofurans	Ryan T. Steele*, Motohiro Fujiu, Richmond Sarpong	University of California, Berkeley
T2	2,5-Dipyridylpyrrole in Supramolecular Chemistry – Click, Rotaxanation, and Skeletal Editing	Jędrzej Perdek*, Rafał Grzelczak, Miłosz Siczek, Bartosz Szyszko	University of Wrocław, Poland
Т3	A Catalytic Asymmetric Intramolecular [4 + 1]-Cycloaddition for the Total Synthesis of Terpene Alkaloid Natural Products	Wen Xiu*, Calvin D. Huffman, William A. Swann, Christina W. Li and Christopher Uyeda	Purdue University
T4	A Second-Generation Route to the Cereblon Fragment of ARV-471, Vepdegestrant	David J. Bernhardson 1, Jonathan Fifer 1, Zebediah C. Girvin 1, Ian Hotham 1, Johnny W. Lee 1, Valerie May 1, Blake Rauschenberger 1, Chase A. Salazar 1, Liam S. Sharninghausen 1, Robert A. Singer 1, Ryan Sullivan 2, Zheng Wang 3, Ethan Weinstein 1, Gerald A. Weisenburger 1, Joseph M. Zanghi 1*	1. Pfizer, Inc., 2 Eurofins CDMO Alphora Inc., Canada; 3. Eurofins Lancaster Laboratories
T5	Activation of Alkyl Electrophiles Mediated by Iminopyridonate Bimetallic Ni(I) Complexes for Suzuki-Migaura Cross-coupling	Hailemariam A. Mitiku, Abhishek A. Kadam, Rebecca Reagan, William W. Brennessel, & Prof. C. Rose Kennedy	University of Rochester

T6	Adding Saturated N-Heterocycles to Automated Block-Based Synthesis of Drug Like Chemical Matter	Dylan Brandt 1*, Joseph R. McAuliffe 1; Vikram Mubayi 1; Daniel J. Blair 1; Martin D. Burke 1, 2, 3, 4	 Department of Chemistry University of Illinois Urban-Champaign; Molecule Maker Lab Institute, University of Illinois Urbana Champaign; 3. Carle Illinois College of Medicine, University of Illinois Urbana- Champaign; 4. Department of Biochemistry, University of Illinois Urbana- Champaign
T7	Analysis of C-H Activation of Directed Cu(II) Cyclometalated Complexes	Ila Y. Castro De la Torre*, Melanie S. Sanford	University of Michigan
Т8	Biocatalytic Aza-Michael Addition of Aromatic Amines to Enone Using α- Amylase in Water	Sunil Dutt	Thapar Institute of Engineering and technology Patiala Punjab
Т9	Caging the Chlorine Radical: Selective Photocatalytic C(sp3)–H Functionalization Enabled by Terminal Cu–Cl Sites in a Metal- Organic Framework	Mary Eaton 1*, Akash Ball 2, Sky Chen 1, Daniel Nakamura 1, Tyler Azbell 1, Heather Kulik 2, and Phillip Milner 1.	1. Cornell University; 2. Massachusetts Institute of Technology
T10	Chan-Evans-Lam Oxidative Alkylation	Pria Parker*, Nitya Sharma*, Hala Maloul*	Smith College
T11	Copper-Catalyzed Enantioselective Haloetherification of Alkenols	Joseph M. Fose*, Atinuke Abanikanda, and Sherry R. Chemler	State University of New York at Buffalo
T12	Development of an Efficient O- Acylation Reaction in a Scalable Synthesis of GDC-6599	Di Xu 1*, Allen Y. Hong 1, Thomas C. Malig 2, Kenji L. Kurita 2, Haiming Zhang 1, and Francis Gosselin 1	 Department of Synthetic Molecule Process Chemistry, Genentech, Inc., South San Francisco; Department of Synthetic Molecule Analytical Chemistry, Genentech, Inc., South San Francisco

T13	Development of Dearomative Methods to Build Molecular Complexity	William Carrick*, Michael Eng, Dorian Vallantin, Tabea Nett, Mikhail Saeed, Shubin Liu, Benjamin Darses, Jeffrey Johnson	University of North Carolina at Chapel Hill, Université Grenoble Alpes
T14	DFT study of the Rh-catalyzed cyclopropanation step in the total synthesis of rauvomine B	Gabriel N. Morais 1*, Jake M. Aquilina 2, Ankush Banerjee 2, Myles W. Smith 2, Shuming Chen 1	1. Oberlin College; 2. UT Southwestern Medical Center
T15	Division of Organic Chemistry Member Benefits	Andrew Freiburger 1, Ed Fenlon 2, Brian Myers 3	1. Northwestern University; 2. Franklin and Marshall College; 3. Ohio Northern University
T16	Electrochemical α-C–H Functionalization of Nitramines for Accessing Bifunctional Energetic Heterocycles	Cindy Lee 1, Luiz F. T. Novaes 1, Rojan Ali 2, Thomas Wirth 2*, and Song Lin 1*	Cornell University
T17	Electrochemical selective arene C-H amination	Griffin Stewart*, Eva Alvarez, Chris Rapala, Christian Malapit	Northwestern University
T18	Expanding the utility of bifunctional organosilicates for tetrahydroquinoline and piperidine synthesis	Dalia Khalil, Ohm Brijeshbhai Patel, Rahil Patel, Mohamed Ibrahim, Nidheesh Phadnis, Jessica A. Molen, John A. Milligan*	Thomas Jefferson University
T19	Exploring the Use of Redox for the Formation of Difficult-to-Form Bonds from Pd and Ni	Zoe Wachtel*, Joshua Thedford, Sabrina Carneiro, Melanie Sanford	University of Michigan
T20	FLASH Catalyst: Regioselective Chlorination of Pharmaceutical Relevant (Hetero)cycles	Zhao Liu*, Jeffery Gustafson	Stony Brook University
T21	From Flexible to Rigid: Exploring Catalytic Palladium C-X Bond Forming Reactions for More Clinically Suitable Protein Degraders	Raphael K. Klake*, Archita Sripada, Nunzio Sciammetta, Charles S. Yeung	Merck & Co., Inc.
T22	General and Selective Fluorination of Alkyl Halides via AgF2-Mediated Halogen Exchange	Snehlata Yadav*, Deepak Pradhan, Subhrasish Banerjee, Mathew Vetticatt, Jennifer Hirschi	SUNY Binghamton University

T23	Generation of Polysubstituted Tetrahydrofurans via Urea-Enabled, Pd-Catalyzed Olefin Heteroannulation	Shannon O'Neil*, Owen Monteferrante, Brooke Stanley, Shauna Paradine	University of Rochester
T24	Gold(I)-Catalyzed Synthesis of 1H- Isochromenes	Miles L. McCue 1, Navraj J. Singh 1, Julianna M. Mouat 2, Zachary A. Grimm 2, Michael R. Gesinski 1*	1. Lawrence University; 2. Southwestern University
T25	Gold(I)-Catalyzed Synthesis of Naphthoquinones and Isoquinolines	Minh N. Tran 1*, Andrew F. Hardianto 1, Sean J. Calvert 2, Chelsey C. Southwell 2, Nathaniel J. Blake 2, Michael R. Gesinski 1	1. Lawrence University 2. Southwestern University
T26	Guaiazulene Functionalization as a Colorful Introduction to Column Chromatography	J. Patrick Lutz*	St. Lawrence University
T27	Highly Efficient, Green Chemical Recycling and Upcycling of Polylactic Acid (PLA) Mixed Plastic Waste	Vasilisa Palkova*, Ria Vij, and Olivia Soliman	Department of Chemistry, Union College
T28	Hydrothermal Reactions of Aromatic Carboxylic Acids and Related Products on Mineral Surfaces	Selmina Huskic*, Brianna Casey, Kristin Johnson- Finn	Rensselaer Polytechnic Institute
T29	Iron catalyzed regiodivergent synthesis of N-heterocycles	Kristi Shrestha*, Alex M. Nguyen	The University of Toledo
T30	Iron-Facilitated Bi(hetero)aryl formation via N-(2- picolyl)picolinamide complexes	Julia Schutz, Elsa Hinds*	Saint Mary's College
T31	Kinetic Studies to Enable a Scalable Direct Glycosylation of a GalNAc Donor	Shea O'Sullivan*, James Murray, Eric Kircher, Zhou Li, Tsang-Lin Hwang, Seb Caille, Janine Tom	Amgen
T32	Ligand denticity and substrate chelating ability interact to control chemoselectivity in nickel-catalyzed amide cross-coupling	Vivek G Pillai*, Kaycie R. Malyk, Daniel Akuamoah, C. Rose Kennedy	University of Rochester

	Mathulana Insertion for Direct Access	Isabella Alansari, Meruyert Binayeva, Rebecca Brew,	
T33	to Tailored Amines	Caitlin Dougherty, Amlan Nayak, Ian Nelson, Wyatt Simmons	Michigan State University
T34	Nickel-Catalyzed C-CN Cross- Coupling of Benzonitriles and Cyclopropyl Ketones	Nathan Coddingtion*, Yvette Luna, Robert Bradley, Madison Loper, Paul Saucedo, Ana Bahamonde	University of California, Riverside
T35	Developing Photoresponsive Artificial Chaperones	Hannah Claus*, McKenna Young, Elizabeth Piedmont, Benjamin Partridge	University of Rochester
T36	Optimizing Hydrogenation Reactions with Gas Chromatography: Unveiling the Effects of Temperature, Pressure, and Catalysts	Masoumeh Rahim*, Charles Garner	University of Memphis
T37	Pd-Catalyzed hydroxylation of aryl halides under air and in eco-friendly solvent	Erica E. Schultz*, Mariam Beshara, Haylee P. Christopher, Gwendolyn A. Jones	Lake Forest College
T38	Photosensitive Platinum Catalysts for Hydrosilation-Curable Silicones	Melina Michailidis*, John Leman PhD, Peter J. Bonitatibus Jr., PhD	Department of Chemistry and Chemical Biology, Rensselaer Polytechnic Institute
T39	Poly(arylene ether)s via Cu(II)- Catalysis	Benedikt S. Schreib*, Timothy M. Swager	Massachusetts Institute of Technology
T40	Progress Toward the Total Synthesis of (–)-Keramaphidin B	Jordan A. M. Gonzalez*, Giulianna A. Miseo, Zach G. Walters, Milauni M. Mehta, Matthew S. McVeigh, James L. Bachman, and Neil K. Garg	University of California, Los Angeles
T41	Pyrrole Rearrangements for Chromophore Development	Cesar Reyes*, Elias Picazo	University of Southern California

T42	Regioselective 1,n- Dicarbofunctionalization of Homoallylammoniums to Synthesize 1,3-Dienes Via C-N Bond Cleavage	Mandapati Bhargava Reddy*, Raj Debnath and Quinton J. Bruch	Stony Brook University
T43	Regioselective Hypervalent Iodine Catalyzed Difunctionalization of Alkenes to Access Morpholine	Madison Martin Erickson, Zhichang Yin, Wei Li	University of Toledo
T44	Shaking-Up Metal-Mediated Organic Reactions Using Ball Mill	Jagadeesh Varma Nallaparaju 1*, Tatsiana Nikonovich 2, Riin Satsi 1, Riina Aav 1, Dzmitry Kananovich 1.	1. Tallinn University of Technology, Estonia; 2. Aalto University, Finland
T45	Stereocontrolled Synthesis of O- Heterocycles	Patrycia Zybura*, Alison Frontier	University of Rochester
T46	Strained-Promoted Reactions of Cubene	Sarah A. French*, Christina A. Rivera, Dominick C. Witkowski, and Neil K. Garg	University of California Los Angeles
T47	Structure, Reactivity and Mechanistic Insights of Alkyl-Bridged bis(N- heterocyclic carbene) Nickel Precatalysts in Homogeneous Catalysis	Kerry-Ann Green 1*, Ellie Beams 1, Claudia Zhang 2, Abigail L. Moffett 1	1. Williams College; 2. Stanford University
T48	Study of Achmatowicz Intermediates in halo-Prins/ Ionization Cascades	Yusuf A. Ibrahim*, Alison J. Frontier	University of Rochester
T49	Synthesis and Characterization of Diversely Substituted Pyrrolidine-2- ones with Potential Antiproliferative Activity	Katelynn S. McPhee*, Matija Bekic, Liliya V. Frolova	Purdue University - Fort Wayne, Department of Chemistry and Biochemistry
T50	Synthesis and Reactivity of Geometrically Distorted Alkenes in Fused Bicycles	Allison M. Clark*, Luca McDermott, Marianna C. Tonoyan, and Neil K. Garg	University of California, Los Angeles
T51	Synthesis and Reactivity of Nitrogen- Containing Cyclic 1,2,3-Trienes	Daniel W. Turner*, Dominick C. Witkowski, Ana S. Bulger, K. N. Houk, and Neil K. Garg	University of California, Los Angeles

T52	Synthesis and Study of Atropisomeric 1-Aryl beta-Carboline	Joseph Mazzucca, Cristina Diaz, Elizabeth Perda, Alma Martinez, Malaquias Loiza, John Stathoulopoulos, Edward J. McClain, Seann P. Mulcahy	Providence College
T53	Synthesis and Study of Organometallic Intermediates in Base Metal-Catalyzed Aminoquinoline- Directed C–H Functionalization	Emily L. Nolan*, Fengrui Qu, Melanie S. Sanford	University of Michigan
T54	Synthesis of (Z)-10,11- dihydrobenzo[e][1,2,3]triazolo[1,5- a]azocine	Ronald Brisbois*, Scott Pedersen, Sarah Solomon, Hazel Waters	Macalester College
T55	Synthesis of 3,6-Diiodo-2,7-Dichloro- 1,8-Naphthyridine and Its Application in Palladium- Catalyzed Cross- Coupling and Macrocycle Assembly	Lily Qin*, Andrew L. Clevenger, Jeffrey L. Katz	Colby College
T56	Synthesis of a D3h cyclo(3,3'-p- terphenylene ethynylene) carbon nanobelt precursor	Jasmine Bordelon*, Karalyn Murray, Thomas S. Hughes	Department of Chemistry and Biochemistry, Siena College
T57	Synthesis of Antitubulin Indole- Substituted Furanones	Ameer H. Muse 1*, Elle S. Grillo 1, Keira L. Potvin 1, Marcella Venettozzi 1, Kathryn E. Cole 2, Patricia Mowery 1, Erin T. Pelkey 1	1 Hobart and William Smith Colleges
T58	Synthesis of aqueous bis-lactam-1,10- phenanthroline ligand for lanthanides separation	Joshua Olaf Aggrey*, Subhamay Pramanik, Ilja Popovs, Santa Jansone- Popova	Oak Ridge National Laboratory
T59	Synthesis of Benzo-fused Cycloheptanones from Cyclobutanol Derivatives by a C–C Cleavage/ Cross Coupling/ Enolate Arylation Sequence	Gwyneth L. Pudner*, Selena Dessain, Eric K. Wu, Richmond Sarpong	University of California, Berkeley
T60	Synthesis of Bicyclo[2.1.0]pentanes and Vinylcyclopropanes Using a Pd(0) Carbene	Isaiah K. Eckart-Frank, Emily S. Arnold*, Liam P. Murphy, Prof. Sidney M. Wilkerson-Hill	Department of Chemistry, The University of North Carolina at Chapel Hill

T61	Synthesis of Functionalized Indole- Dihydrothiopyran Hybrids through Intramolecular Alkyne-Carbonyl Metathesis	Miguel Andrade, Mukund Jha*	Department of Biology Chemistry and Geography, Nipissing University, North Bay, Ontario, Canada
T62	Synthesis of Guaiazulene-3-Carboxylic Acid and Oxalic Acid Derivatives	Emma Audi*, Carly M. Zack*, J. Patrick Lutz	St. Lawrence University
T63	Synthesis of Isatin through DMSO Mediated Oxidation of Indigo	Alivia Roerdink*, James Shriver	Central College
T64	Thermally Hazardous 1,3-Dioxolane Coupling Reaction Made Safer by Employing Process Safety Data	James Clarke 1, Duncan Farr 1, Jimmy Wang 1, Heather Ingram 1, Caroline Chapman 1, Harriet Field 1, Christopher P. Breen 2, Eva M. Gulotty 2*, Sara Mason 2, Grace Russell 2, Oliver Williams 2, Shruti Kumta 2, Jerry Britto 2, Li-Jen Ping 2	1. Pfizer U.K., Discovery Park House, Ramsgate Road, Sandwich, U.K.; 2. Snapdragon Chemistry, A Cambrex Company, Waltham Massachusetts
T65	Three Component Coupling Using a Sustainable Iron Catalyst to Form Substituted Imidazole Products	Celia McGhiey 1*	1. Saint Louis University
T66	Using a Packed-Column Gas Chromatograph as a Fixed-Bed Flow Reactor	Mark Wilson, Dr. William Hutcherson, Dr. Charles M. Garner, Jared Kaiser, Annabel Doyle	University of Memphis
T67	Visualizing Molecules: An Innovative Extra Credit Assignment Linking Organic Chemistry and Art Museum Visits	Zachary J Poulos	Massachusetts College of Pharmacy & Health Sciences
W1	A Catalytic Wittig Approach to the Piperacase Family of Natural Products	James C. Adrian, Jr.* and Anthony J. Condemi	Union College, Chemistry Department
W2	Activated benzyloxypyridinium salts for mild and efficient benzylation of oxygen nucleophiles	Emma E. Horton*, Colleen R. Kinney*, Philip A. Albiniak	Ball State University
W3	Amphiphilic Dendrons as Supramolecular Holdase Chaperones	Elizabeth Piedmont 1*, Erin Christensen 1*, Todd Krauss 1 2*, Benjamin Partridge 1*	University of Rochester and Institute of Optics, University of Rochester

W4	Analysis of Electronic and Steric Factors in Bis-Chalcone Synthesis	Nikolas Bodnar*, Jacob Bundesmann*, Emma Fallon*, Dr. Sarah Zingales	US Coast Guard Academy
W5	CDK2 Bivalent Inhibitors for Anti- Cancer Therapy and Non-Hormonal Male Contraception	Laila Aiad 1*, Gunda Georg 2	1. Department of Chemistry, College of Science and Engineering, University of Minnesota Twin Cities; 2. Department of Medicinal Chemistry, College of Pharmacy, University of Minnesota Twin Cities
W6	Cross Carbonyl-Olefin Metathesis (XCOM) of Unactivated Olefins	Jason Wu*, Moises Vargas- Penalver, Tristan H. Lambert	Cornell University, Department of Chemistry & Chemical Biology
W7	Design and Synthesis of Novel Cyclopentyl Dinucleotides (CPNs) as STING Agonists	Jacqui Hoffman*, Daniel Canterbury, Ramalakshmi Chandrasekaran, Chan Huh, Indrawan McAlpine, Ryan Patman, Stephanie Scales, Jianmin Sun, Tuan Tran, Michelle Tran-Dubé, Fen Wang, Joseph Warmus, Martin Wythes, Shouliang Yang & WuXi	Oncology Medicinal Chemistry, Pfizer
W8	Design, syntheses, and cytotoxic bioevaluations of some benzylidene cinnamoylhydrazides	Mohammad Hossain 1*, Stephen M. Markley 1, Jacquelynn J. Wiles 1, Jolie N. Dionne 1, Jacqueline Pena-Zacarias 2, Praveen K. Roayapalley 3, Renato J. Aguilera 2, Jonathan R. Dimmock 3	1. School of Sciences, Indiana University Kokomo; 2. Department of Biological Sciences, University of Texas at El Paso; 3. College of Pharmacy and Nutrition, University of Saskatchewan, Canada
W9	Design, Synthesis and Evaluation of Next-Generation Glycosidase Inhibitors through Side Chain Conformational Control	Po-Sen Tseng*, Kelley W. Moremen, Zachary A. Wood, David Crich	University of Georgia
W10	Design, synthesis, and testing of isatin-linked cholinesterase inhibitors	Todd J. Eckroat*	Penn State Behrend

W11	Developing photoswitchable GTP analogs to control protein assembly	Abhishek Roy*, Kari Maxian, Benjamin E. Partridge	Department of Chemistry, University of Rochester
W12	Development of a Naphthalimide- Based Fluorogenic Probe for Detection of Galanin	Austin Apesa*, Glenn Gilyot	Hampden-Sydney College
W13	Development of a Naphthalimide- Based Fluorogenic Probe for Detection of Leptin	Davis Mills*, Glenn Gilyot	Hampden-Sydney College
W14	Development of a near-infrared naphthalimide-based fluorogenic probe for detection of leucine aminopeptidase (LAP)	Glenn Gilyot*, Benjamin Gerber, Thomas Morris, Garrett Regan	Hampden-Sydney College
W15	Development of a sustainable process to florylpicoxamid from renewable raw materials	Nakyen Choy*, Nicholas R. Babij, Megan Cismesia, David Couling, Nicole Hough, Elizabeth McCusker	Corteva Agriscience
W16	Development of Bivalent Inhibitors of Cyclin-dependent Kinase 2 for the Treatment of Cancer and Male Contraception	Maryam Nazari*, Kelsey A. Holdaway, and Gunda I. Georg	Department of Medicinal Chemistry and Institute for Therapeutics Discovery and Development, University of Minnesota.
W17	Development of pyruvate carboxylase (PC) inhibitors for studying cancer cell metabolism	Subhabrata Chaudhury 1, Nick Schneider 2, William A. Donaldson 3, Martin St. Maurice 2	1. Department of Biological and Chemical Sciences, New York Institute of Technology; 2. Department of Biological Sciences, Marquette University; 3. Department of Chemistry, Marquette University
W18	Direct-to-Biology Enabled Molecular Glue Discovery	Maowei Hu*, Daniel J. Blair	St Jude Children's Research Hospital
W19	Drug Target Identification through Visible Light Photocrosslinking	Brianna Uquillas*, Allison Hurd*, Josephine Cochran, Lindsay Repka	Middlebury College

W20	Dynamic Kinetic Asymmetric Hydroacylation: Racemization by Soft Enolization	Stephanie Corio*, Jennifer Hirschi	Binghamton University
W21	EXAMINING THE ELECTRONIC STRUCTURE OF THE PRIMARY AND SECONDARY QUINONE ACCEPTORS OF PHOTOSYSTEM II	Caitlyn Mutchler 1,2*, Patrick Landry 2, and K. V. Lakshmi 2	1. The Biochemistry and Biophysics Program; 2. the Department of Chemistry and Chemical Biology and the Baruch '60 Center for Biochemical Solar Energy Research, Rensselaer Polytechnic
W22	Exploring Synthetic Pathways Towards Efavirenz: Replacement of the Side Chain With Larger Hydrocarbon Rings	Rocco Vargas 1*, Kaya Brooks 2, Ralph N. Salvatore Ph.D. 3	Southeastern University and University of South Florida
W23	Fit-For-Purpose Process Development of TEAD inhibitor GDC-8025	Jeff Shen*, Nick White.	Genentech
W24	Generation and Trapping of 1,7- Quadricyclene	Jiaming Ding*, Arismel Tena-Meza, and Neil K. Garg	University of California, Los Angeles
W25	Identification of Indoline-Containing Inhibitors of Glycine Transporter 2	Tanmay K Pati 1* Christopher L. Cioffi 1, Mahesh Gaddam 1, Parthasarathy Muthuraman 1, Arun Raja 1, Srinivasan Jayakumar 1, Ramajayam Kuupusamy 1, Arunan Palanimuthu 1, Snigda Singh 1, Irina Lotsaris 2, Ryan Cantwell- Charter 2, Sally Evans 2, Julian Peiser-Oliver 2, Sarasa Mohammadi 2, Robert J. Vandenberg 2	 Rensselaer Polytechnic Institute, Department of Chemistry and Chemical Biology, Troy, New York; University of Sydney, School of Medical Sciences, New South Wales, Australia
W26	Identification of Novel Sulfoximine Inhibitors of RPE65 – Potential Therapeutics for Stargardt Disease	Benjamin Howard 1*, Christopher L. Cioffi 1, Lucia Maldonado-Vasquez 1, Darian Topolski 1, Krishna Yadav 1, Konstantin Petrukhin 2, Gennadiy Moiseyev 3	1. Rensselaer Polytechnic Institute; 2. Columbia University; 3. Wake Forest University

W27	Improving the Bioavailability of Gefitinib Across the Blood-Brain Barrier: A Prodrug Strategy for Inhibition of P-gp-mediated Efflux	Douglas S. Chan*, Christine A. Hrycyna, & Jean Chmielewski	Purdue University
W28	Investigations into the Mechanism of Cambiarene Formation	Katie Morrison*, Jay Wackerly	Central College
W29	Late-Stage Serine Modification Enables Noncanonical Peptide Synthesis	Zhenyan Guo*, Tianning Diao	New York University
W30	Lewis Base-Mediated Nucleophilic Additions of beta-Silylallenes	Gregory W. Adams* and Timothy J. Barker	College of Charleston
W31	Mechanistic investigation for catalytic carbonyl-olefin and carbonyl-alkyne metathesis reaction.	Anjali Ravindran Nair*, Mathew J. Vetticatt	Binghamton University
W32	Mechanistic investigation into the many roles of indole in Ni/photoredox C-N coupling	Olivia Taylor*, Harsh Chavda, Kevin Liang, Tanner Megna, Angie Lopez, Grace Kim, Ana Bahamonde	University of California, Riverside
W33	Mechanistic Investigation of Nitrogen Atom Insertion Skeletal Rearrangements	Somnath Ganguly*, Stephanie Corio, Suchand Basuli , Jennifer Hirschi	SUNY Binghamton University
W34	Mechanistic Investigation of Nucleophilic Aromatic Substitutions between Nitrogen Nucleophiles and Aryl Fluorides	Harrison W. Toll 1, Xiaoyi Zhang 1, Tong Gao 1, Guilherme Dal Poggetto 2, Mikhail Reibarkh 2, Joshua J. Lee 1, Katherine J. Yang 1, Eugene E. Kwan 2, Amanda K. Turek 1	1. Williams College; 2. Merck & Co., Inc.
W35	Mechanistic Investigations into The Electrophotocatalytic C-H Functionalization of Ethers	Joshua Crow*, Tamal Das, and Jennifer Hirschi	Binghamton University
W36	Mechanistic Study of Diphenylprolinol Silyl Ether- Catalyzed Michael Addition	Lucian Fioretto*, Joseph A. Izzo, Chetan Joshi, Juliet M. Macharia, Sierra Marker	Binghamton University

W37	Metallooxaziridine Catalysis for the Functionalization of Alkenes	Jenna Doran*, Erin Doran, Ali Pinarci, Morgan Rossi, Rufai Madiu	Rowan University
W38	Optimizing the solid-phase synthesis of amphiphilic peptoid sequences for the assembly of gold embedded nanosheets.	Khadija Amir [1], Sasha Stark [1], Raquel Duenas [1], Ellen Robertson [1], Kristiana Witte [2], Karlee McKinny [2], Caroline Proulx [2]	[1] Union College, [2] North Carolina State University
W39	Organic Chemistry for Kids and other Educational Initiatives	Daniel W. Turner*, Giulianna A. Miseo, Benjamin A. Janda, and Neil K. Garg	University of California, Los Angeles
W40	Palladium-Catalyzed Annulation of Anti-Bredt Olefins	Zach G. Walters*, Aimee K. Long, and Neil K. Garg	University of California, Los Angeles
W41	PLP-Dependent Biocatalysts for C-C Bond Formation	Alexander Kim 1*, James Howard 2, Will Aye 1, Ryan Russo 1, Kendrick Smith 1, Matthew Sigman 2, Alison Narayan 1	1. University of Michigan; 2. University of Utah
W42	Radical-Mediated Protein Editing Allows 18F Protein Labelling	Andrew M. Giltrap 1,2,3*; Adeline W. J. Poh 2,3,4; Nan Yang 2,3,4; Daniel C. Anthony 3; David Leppert 5; Veronique Gouverneur 4; Benjamin G. Davis 2,3,4.	 University of Technology Sydney, Australia; 2. The Rosalind Franklin Institute, UK; 3. Pharmacology, The University of Oxford, UK; 4. Chemistry, The University of Oxford, UK. Neurology, University Hospital Basel, Switzerland
W43	Regio-, Stereo-, and Chemoselective Iterative Glycosylation via Fluoride Migration	Timothy Emmel*, Chandana Sunil, John Montgomery	University of Michigan
W44	Rhodamine-dipeptide Conjugates for Cellular Tracking and Drug Delivery	Sagarika Taneja*, Ziyuan Meng, Bingxun Li, Benjamin Conrad, Jon R. Parquette	The Ohio State University

W45	Shining Light on the Use of Sensor Arrays to Detect Anions	Nicola Edwards* 1, Eben Holmes 1, Guo Chen* 2, Nathan Lam* 2	1. University of St. Joseph, West Hartford, CT; 2. The Loomis Chaffee School, Windsor, CT
W46	Size Isn't Everything: Diastereoselective Synthesis of Azetidines	Matthew Kiernan*, Paul Evans	University College Dublin, Ireland
W47	Spectroscopic Investigation of the Energetics of Electron Transfer using menB variants of Photosystem I	Brandon P. Russell 1,3*, Vasily Kurashov 2, David F. Iwig 2, Patrick Landry 3, Wade Johnson 4, Art van der Est 5, John H. Golbeck 2, David J. Vinyard 1, and K. V. Lakshmi 3	1. Louisiana State University; 2. The Pennsylvania State University; 3. Rensselaer Polytechnic Institute; 4. Susquehanna University 5 Brock University
W48	Structural Impact of 8-oxoG on Oligonucleotides of RNA Containing 1-Nucloetide Bulges	Dagoberto Grijalva-Flores*, Marino J.E. Resendiz	University of Colorado Denver
W49	Sulfinate Protecting Groups for the Development of Sulfonyl Fluoride Inhibitors	Twinkle I. Patel, Makayla L. Williams, Yumeng Chi, Ramkrishna Laha, Geoffrey H. Chan*, Matthew J. Moschitto	Rutgers
W50	Supramolecular hydrogen-bonded assembly of novel Janus nucleobases	Parbhat Kumar*, Aiden J. Ward, Alejandro Lazaro, and Benjamin E. Partridge	Department of Chemistry, University of Rochester
W51	Synthesis of Adamantyl-Based Cambiarenes	*Brady Birkenholtz, Jay Wackerly	Central College
W52	Synthesis of hydrophilic polymers from renewable sources	Lillian Fairchild* Teah Miller* Jay Wackerly	Central College
W53	Withdrawn		
W54	Synthesis of Polysubstituted Cylcobutanes and Natural Product Analogues as Potential Therapeutics	Thomas J. Osberger*, Constantinos G. Gofas, Tatiana E. Lopez, Christa M. Larino, Mario Godinez, Daniel S. Jaramillo, Patricia Daniela Rodriguez, Kimchou Lao, Timmy B. Nguyen, Joanna Feng, Tommy Truong, Nhi Le, Minh T. Lu, Tan. N. Tan, Priscilla Laguna, Jessica A. Coronel, Rei J. David, Dean Papatheodouro, Andrew Hsieh, Kaitlin Paguio, Donna Hajhamid, Fatima L. Martinez, George M. Hernandez, Kristie E. Quintero, Lance Ochoa, Gil C. Rodriguez, Bridget Yang, Brianna Duenas, Li Kuang, and Francis Audrey Pamaran	California State Polytechnic University, Pomona
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W55	Thiolactone-assisted Chemo-selective Desulfurization of Native Peptides	Anil Talakokkula*, Godwin Iwara, Qiang Zhang	State University of New York, University at Albany.
W56	Towards an Enzyme Mimic through DNA-Palladium Conjugation	Jingyi Sze*, Kadiatou Diallo*, Chu Luo, Rachel Jiang, Dave Gorin	Smith College
W57	Unexpected Orthogonality in the Highly Site-Selective Oxidation of Macrolide Antibiotics	Olivia C Langner*, Brandon Q Mercado, Nicolò Tampellini, Scott J Miller	Yale University
W58	Water has a pKa of 14.00, not 15.74: Experimental, theoretical, and historical evidence leave no doubt	Stephanie Schaertel 1*, Tom Neils 2, Todd Silverstein 3	1. Grand Valley State University; 2. Grand Rapids Community College; 3. Willamette University
W59	σ-Bond Insertion Reactions of Two Strained Diradicaloids	Christina A. Rivera*, Arismel Tena Meza, Huiling Shao, Andrew V. Kelleghan, K. N. Houk, and Neil K. Garg	University of California, Los Angeles

General Information

Food, shops, etc. near campus

https://www.downtowntroyny.org/businesses

Local attractions and activities

The two NOS organized events are the Capt. JP riverboat cruise and NYS Capitol Building/Albany Institute of History and Art outings. There are many other local attractions such as Grafton Lakes State Part, walking tours of Troy, the Hart-Cluett Museum, and golfing options. For more details: <u>https://www.nationalorganicsymposium.org/activities/</u>

Yankee Trails Shuttle Service

There is a complementary shuttle service provided for attendees staying at the RPI Blitman dormitory and the three local Troy hotels: the Hilton Garden Inn (235 Hoosick Street), Best Western Plus – Franklin Square Inn (1 4th Street), and the Courtyard Marriott Albany/Troy Waterfront (515 River Street). This complementary service is for transportation between the Troy hotels and RPI Blitman and EMPAC. This service does not include transportation to and from the Albany International Airport and the Amtrak station.

RPI Campus Parking

Parking will be available free of charge at two specified locations on campus:

- **South Campus parking garage** (located at the upper/east College Ave entrance, #75 on map below) near EMPAC (building #76).
- North Lot (located at Sage Ave, entrance located near the North Hall Residential Commons, #8 on map below)

Uber Drop-off / Pick-up Locations

- 105 Eighth St. Troy, NY 12180 (next to Winslow Bldg. #78 on map below)
- 1623 15th Street, Troy, NY (next to CBIS building #74 on map below)

WiFi Access

WiFi login credentials will be provided to all NOS attendees upon arrival. Details will be included in your registration materials, and assistance will be available if you encounter any connectivity issues.

Public Safety & Emergencies

In an emergency you can call 911 or RPI Public Safety 518-276-6611. There are also 100 blue light telephones or call boxes on and near campus. Contact with Public Safety is established as soon as the button is pushed.

RPI Alert System

Starting on Friday June 20th, Attendees and family members of the NOS can opt into the RPI Alert System by texting "RPINOS" to 888777. Subscribers will be automatically removed from the system at the conclusion of NOS.

Anti-Harassment Policy

The Division of Organic Chemistry (DOC) seeks to foster a positive and safe environment for meeting attendees free from sexual or other forms of harassment, and characterized by courtesy and respect.

If you have been subjected to or witnessed harassment, you are encouraged to report the incident to Ed Fenlon (<u>efenlon@fandm.edu</u>) or Amy Howell (<u>amy.howell@uconn.edu</u>). Alternatively, you may contact any DOC officer (listed on page 10) or use the ACS anonymous hotline: 855-710-0009 (English) or 800-216-1288 (Spanish). All reports will be treated confidentially, seriously, and acted upon promptly.

Lactation room

Soloist Suite #1, 6th floor EMBAC (one floor up from Concert Hall backstage) is provided as a lactation room for nursing mothers.

EMPAC Concert Hall Policy

Food and beverages are not permitted inside the EMPAC Concert Hall. However, bottled water is allowed.

RPI Blitman Dormitory Check-In

Attendees staying at the RPI Blitman Dormitory should check in and pick up their room keys directly at the dormitory on Sat 6/21 or Sun 6/22. Public safety will have an overnight presence at Blitman and can assist with the distribution of keys after hours.

Partial Campus Map with NOS sites \star



Click here for Full Campus Map