Detailed Program

for the third biennial

Schaap Chemistry Symposium

Hope College, Holland, MI

July 13-14, 2023

Thursday, July 13, 2023

9:30am	Check-in / packet pick-up (for those not checking into hotel Wednesday evening) Poster setup (will remain up for duration of Symposium) Find your abstract, or consult the table on the inside back cover of this book, to know which	Haworth Ballroom 136/144
10am – 1pm	OPENING SESSION – Prof. Jason G. Gillmore presiding	Haworth Ballroom 134
10:00am	Welcome and Introductory Remarks	
10:15am	OPENING KEYNOTE (KL1): Prof. Jen Heemstra, Washington University in St. Louis <i>"A chemical biology toolbox for probing A-to-I RNA editing"</i>	
10:55am	ST01 Jane E. DeGroot, Hope College "First steps toward new 4-substituted BF ₂ -azo dyes"	
11:10am	ST02 Bryan J. Forrest, Hope College "Exploring the effectiveness of novel directing groups for rhodium-catalyzed decarbonylation"	
11:25am	ST03 Anna Koppin , Hope College "Assessing the function of lysine 473 in the trafficking of the transporter, System xc-"	e cystine/glutamate
11:40am	Break (feel free to browse posters!)	Haworth Ballroom 134/136/144
12:00pm	ST04 Dr. Michael R. Bergman , Northeastern University <i>"Features of lens proteins that support lifelong vision"</i>	
12:15pm	ST05 Dr. Caitlin R. Lacker, University of Wisconsin <i>"Functional group permutation: the conversion of alcohols to ethers through an atom exchange strategy"</i>	
12:30pm	ST06 Dr. Nuwandi Ariyasingha, Wayne State University <i>"Disposable and handheld clinical-scale HP propane hyperpolarizer for pulmonary MRI</i> "	
12:45pm	Announcements	
1pm – 2pm	LUNCH	Phelps Dining Hall

After lunch the symposium moves to the A. Paul Schaap Science Center for the afternoon.

2:20-3:20pm Student Short Talks in parallel sessions

Schaap 1000, Schaap 1019

Schaap 1	1000	Schaap 1019	
Prof. Meaga	an Elinski presiding	Prof. Elizabeth M. Sanford presiding	
2:20 ST07 Amanda J. Smith,		2:20 ST11 David V. Price, Hope College	
University of Illinois at Urbana-Champaign,		"Biodegradable metallopolymers: synthesis and	
<i>"Ferroptosis and transcatheter chemoembolization for</i>		polymerization of cyclic carbonate monomers with	
<i>the treatment of liver cancer"</i>		pendant metallocenes"	
2:35 ST08 Connor Bovia , Hope College		2:35 ST12 Kiera M. Estes, Purdue University	
"Influence of nanoparticle chemical composition on		"Synthesis of materials for applications in protein	
in situ hydrogel friction"		structural determination by cryoEM"	
2:50 ST09 Chiamaka Peace Uzoewulu, NC State U. "Isotopic labeling strategies for biomolecules in ionic liquid and hexafluoroisopropanol"		2:50 ST13 Nathaniel G. Larson, Montana State U. <i>"Unconventional site-selectivity in palladium cross-couplings of dichloroheteroarenes."</i>	
3:05 ST10 Carson C. Cole, Rice University		3:05 ST14 Victoria L. Cinnater, Duke University	
"Design of a rapidly folding collagen heterotrimer by		"Synthesis and photophysics of highly electron-	
optimizing specificity"		deficient porphyrin oligomers"	
3:20pm	Break (light refreshments available)	Schaap Sci. Ctr. Atrium	
:40pm Panel A: Industrial Careers in Che Prof. Traci L. Smith presiding		ry Schaap 1000	
	Panel B: Faculty Careers at Undergrad Prof. Kristin Dittenhafer-Reed presiding	uate Institutions Schaap 1019	

4:40pm Break

Schaap Sci. Ctr. Atrium

5:00-5:45pm Student Short Talks in parallel sessions

Schaap 1000, Schaap 1019

Schaap 1000	Schaap 1019
Prof. Kenneth L. Brown presiding	Prof. Elizabeth M. Sanford presiding
5:00 ST15 Emily E. Williford , Washington U St Louis	5:00 ST18 Joshua Morales Campos, Notre Dame
"Structure-based design of bisubstrate tetracycline	"Isolation of catalytic sites in 2D extended solids
destructase inhibitors that block flavin redox cycling"	through atom-transfer/exchange reactions."
5:15 ST16 Ryan M. Kosko , University of Rochester "A bio-nano hybrid system for photochemical hydrogen production"	5:15 ST19 Madison Shaffer, Michigan State Univ. Bioeconomy Institute, <i>"Optimizing the molecular design of pyridinium anolytes for energy storage applications"</i>
5:30 ST17 Olivia Sprys-Tellner , Hope College	5:30 ST20 Christopher Haines, Penn State Univ.
"The effects of iron oxide nanoparticle exposure on a	"Research in the Nacsa Group at Penn State: New
sentinel species: house sparrows as the new canary in	approaches in electron transfer to develop synthetic
the coalmine"	organic transformation"

5:45pm – 6:30pm Optional Building Tours

Schaap Science Center

Meet Hope undergraduate student and faculty tour guides in the Atrium for tours leaving every 15 minutes or so.

Feel free to hang out in the Science Center until dinner (in the plaza right outside if the weather is fair), or you have time to go back to the Haworth Hotel before dinner to freshen up or change for dinner (and hopefully for the beach!).

FAIR WEATHER THURSDAY EVENING PLANS

6:30-7:30pm Picnic Dinner in Van Andel Plaza *just north of Schaap Sci. Ctr.* For air-conditioned dining and additional table space, feel free to bring your meal inside to tables in Schaap 1118.

8:00pm Motor coaches to Holland State Park Beach for dessert, optional swimming, and sunset over Lake Michigan! Departing from Haworth Inn & Conference Center circle drive 7:45-8pm, returning by 10pm.

ALTERNATE INCLEMENT WEATHER THURSDAY EVENING PLANS

- 7-8:30pm Indoor "Picnic" Dinner & Dessert
- 8:30-11pm Motor coaches will run shuttles back and forth from Haworth to BAM! Family Fun Center Bar, Bowling, Arcade, Billiards, Laser Tag, Indoor Ropes Course, Axe-Throwing, Escape Rooms, <u>at your own expense</u>. Information / discount available on flyer in your folder.

Haworth Ballroom 134

Friday, July 14, 2023

8:20am	Panel C: Graduate School in Chemistry Prof. Jason G. Gillmore presiding All university graduate students, postdocs, and faculty are come share your insights with all Hope students expected	-	
9:20am	POSTER SESSION (with light refreshments)	Haworth Ballroom 136/144	
11:20am	Lunch on your own Local dining options provided in your packet.	8 th St., downtown Holland	
1 – 3pm	CLOSING SESSION – Prof. Jason G. Gillmore presiding	Haworth Ballroom 134	
1:00pm	ST21 Caleb Brzezinski, Hope College <i>"Extending computational chemistry to larger system</i>	าร"	
1:15pm	ST22 Michael L.Taylor, JD, Harness Intellectual Property "Chemistry after the classroom and inside an IP attorney law office"		
1:30pm	ST23 Emmanuela Chukwuezi, MS, Grand River Aseptic Manufacturing <i>"Topics in biopharmaceutical aseptic manufacturing."</i>		
1:45pm	Break (last chance to browse posters!)	Haworth Ballroom 134/136/144	
2:00pm	CLOSING KEYNOTE (KL2): Prof. Jen Heemstra, Washington University in St. Louis <i>"Navigating the choices that shape your career"</i>		
2:35pm	Concluding remarks, Surveys		
3:00pm	Please take down posters promptly (must vacate space by 3:1	<i>(5pm)</i> Haworth Ballroom 136/144	
4:00pm	Shuttle to GRR departs Haworth Inn & Conference Center (for preregistered guests only) (two additional shuttles will depart on Saturday morning for those spending Friday night)		