

Detailed Program
for the inaugural
Schaap Chemistry Symposium
Hope College, Holland, MI
July 20-21, 2017

Thursday, July 20, 2017

- 9:30am Check-in / packet pick-up (*for those not checking into hotel Wednesday evening*) Haworth Lobby
Poster setup (*will remain up for duration of Symposium*) Haworth Ballroom I+II
Find your abstract, or consult the table on the inside back cover of this book, to know which Poster # you have been assigned!
- 10am – 1pm OPENING SESSION** – Prof. Jason G. Gillmore presiding **Haworth Ballroom III**
- 10:00am **Welcome and Introductory Remarks**
- 10:10am KEYNOTE: **Prof. Sylvia T. Ceyer**, Massachusetts Institute of Technology
“*Delving below the surface*”
- 10:50am ST01 **Kevin Franz**, Hope College
“*Investigating the role of xCT in neuroregeneration using laser ablation*”
- 11:05am ST02 **Mackenzie Schmidt**, Hope College
“*Determining the role of Akt in regulating cell surface expression of system xc-*”
- 11:20am ST03 **Luis De Jesus Baez**, Texas A&M University
“*Designing a better battery from the bottom up: a mechanistic approach to cathode materials*”
- 11:35am **Break** (*feel free to browse posters!*) Haworth Ballroom I-III
- 12:00pm ST04 **Phil C. Knutson**, University of Georgia
“*Synthesis of gelsenicine via a metal-catalyzed cycloisomerization*”
- 12:15pm ST05 **Brandon Derstine**, Hope College
“*Ethynyl-substituted longer wavelength Azo dyes for photomechanical applications*”
- 12:30pm ST06 **Grace Kunkel**, Hope College
“*Modified polyol synthesis and thermoelectric characterization of tetrahedrite*”
- 12:45pm Announcements
- 1pm – 2pm LUNCH** **Phelps Dining Hall**

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

2:15-3:15pm Student / Industry Short Talks in parallel sessions**Schaap 1000, Schaap 1019**

Schaap 1000 Prof. Kristin Dittenhafer-Reed presiding	Schaap 1019 Prof. Amanda L. Eckermann presiding
2:15 ST07 Skylar Sundquist , Hope College <i>"The Regulation of Cellular Proliferation by VACM-1/CUL5 is Dependent on its Posttranslational Modification by NEDD8"</i>	2:15 ST11 Nathan Vance , Hope College <i>"Computational chemistry using cloud computing"</i>
2:30 ST08 Elizabeth Peuchen , Univ. of Notre Dame <i>"Proteomic birth of a frog"</i>	2:30 ST12 Donna Seibert , Analytical Research & Development, Perrigo <i>"Elemental impurities: technical challenges for the pharmaceutical industry and collaborative studies"</i>
2:45 ST09 Christopher Morgan , Case Western Reserve University <i>"Structural insights into HIV splicing"</i>	2:45 ST13 George Van Den Driessche , North Carolina State University <i>"HLA triggered adverse drug reactions: challenges and opportunities for molecular modeling"</i>
3:00 ST10 Matthew Rycenga , Trident Labs <i>"The chemistry behind drug testing for pain management"</i>	3:00 ST14 Alyssa Cabelof , Indiana University <i>"Joint synthetic and computational exploration into the nitrate reducing properties of cobalt complexes supported by a new PNNH ligand"</i>

3:15pm Break (light refreshments available)**Schaap Sci. Ctr. Atrium****3:30pm Panel A: Industry Careers in Chemistry****Schaap 1000**

Prof. Elizabeth M. Sanford presiding

Panel B: Faculty Careers at Undergraduate Institutions**Schaap 1019**

Prof. Jeffrey B. Johnson presiding

4:30pm Break**Schaap Sci. Ctr. Atrium****4:45-6pm Student / Industry Short Talks in parallel sessions****Schaap 1000, Schaap 1019**

Schaap 1000 (Prof. Kristin Dittenhafer-Reed presiding)	Schaap 1019 (Prof. Amanda L. Eckermann presiding)
4:45 ST15 Christine Arbour , Wayne State University <i>"Harnessing the reactivity of the MeDbz linker to access C-terminally modified and macrocyclic peptides"</i>	4:45 ST20 Christopher Anderson , Pleotint LLC <i>"Intelligent windows based on transition metal ligand exchange processes"</i>
5:00 ST16 Kyle Ross , Hope College <i>"Connecting mitochondrial lipid biosynthesis and the evasion of apoptosis in cancer cells"</i>	5:00 ST21 Rebecca Johnson , Hope College <i>"Rhodium-catalyzed carbon-carbon bond activation: expanding the reaction scope via removable Imine directing groups"</i>
5:15 ST17 Jaime Murphy , Clemson University <i>"Controlling copper-methimazole reactions: a complex redox story"</i>	5:15 ST22 Timothy Shannon , Michigan State Univ. <i>"C-H borylation/reduction for selective synthesis of saturated cyclic organoboron compounds"</i>
5:30 ST18 Arthur Besteman , Corium <i>"Analytical chemistry applied to transdermal drug delivery"</i>	5:30 ST23 Collin Wassilak Hope College <i>"Functionalization of electrode surfaces using iron-based redox mediating films for glucose detection"</i>
5:45 ST19 Matthew Hostetler , Purdue University <i>"Inhibitors of II-HMGR as novel Gram-positive antimicrobial agents"</i>	5:45 ST24 Devin Ferguson , University of Michigan <i>"Ligand effects on aryl-perfluoroalkyl coupling reactions at palladium(II)"</i>

6-7pm **Optional Building Tours** Schaap Science Center
Meet Hope undergraduate student and faculty tour guides in the Atrium for tours leaving every 10 minutes or so.

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 / tables, feel free to bring your meal inside to the Schaap Atrium or Schaap 1118.

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

ALTERNATE INCLEMENT WEATHER THURSDAY EVENING PLANS

7-8:30pm **“Picnic” Dinner & Dessert** **Haworth Ballroom III**

9-11:30pm **Motor coaches will run shuttles back and forth from Haworth to BAM! Family Fun Center**
 Bar, Bowling, Arcade, Laser Tag, Indoor Ropes Course, at your own expense.
 Information / discount available on flyer in your folder.

Friday, July 21, 2017

8:15am **Panel C: Graduate School in Chemistry** **Haworth Ballroom III**
 Prof. Beth Anderson presiding. Coffee available at 8:00am.
All university graduate students and faculty encouraged to come to share your insights.

9:15am **POSTER SESSION** (with light refreshments) **Haworth Ballroom I+II**

11:15am **Lunch on your own** **8th St., downtown Holland**
 Local dining options provided in your packet. First 10 registrants also have their promised incentives in their packets.

12:45-3pm **CLOSING SESSION** – Prof. Jason G. Gillmore presiding **Haworth Ballroom III**

12:45pm ST25 **Vanessa Drust**, Hope College
“Effects of a novel arene ruthenium glycoconjugate complex on cancerous cell lines”

1:00pm ST26 **Amber Prins**, Michigan State University Bioeconomy Institute
“Organic materials for energy storage: exploiting steric strain to tune oxidation potentials”

1:15pm ST27 **Dr. Angelique Greene**, Washington University (St. Louis)
“Redox-responsive artificial molecular muscles: reversible radical-based self-assembly for actuating 3D soft materials”

1:30pm **Break** (last chance to browse posters!) **Haworth Ballroom I-III**

1:45pm ST28 **Dr. Evan Reynolds**, Colorado State University
“Expanding the chemical functionality of the cell with orthogonal enzyme/cofactor pairs”

2:00pm ST29 **Casey Kennedy**, Montana State University
“Ultrafast excited state transport and decay dynamics in cesium lead mixed-halide perovskites”

2:15pm ST30 **Alexander Osterbaan**, Hope College
“Raman spectroscopy for undergraduate laboratories”

2:30pm **Concluding remarks, Surveys**

3:00pm Please take down posters promptly (*must vacate space by 3:15pm*) **Haworth Ballroom I+II**

3:15pm Shuttle to GRR departs Haworth Inn & Conference Center (for preregistered guests only)
 (a second shuttle is available on Saturday morning for those spending Friday night)