

The Syracuse Chemist

Volume 102/Issue 5



August 2010

Corning Museum of Glass

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National ACS Meeting

Syracuse Chemists are well represented in Boston

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July Dinner Meeting Held at Syracuse University

The July “eat like a student” dinner meeting was held at Syracuse University on July 21st. The speaker was Mr. Samuel VanDee director of the Onondaga County Forensics Center. Mr. VanDee spoke to a crowd of 50 or more about what his center does, all of the different types of evidence they process and how long it takes for a case to be proven, often decades. Mr. VanDee started the evening by comparing and contrasting his job with public perception as it has been portrayed in the CBS TV Show *CSI*. Contrary to popular belief, Crime Scene Investigators do have fluorescent lights in their labs, they do not drive Hummers, carry guns or interview suspects!

A delightful evening was had by all, special thanks to Mike Sponslor for hosting and suggesting the speaker and Michelle Boucher for organizing the dinner from Dinosaur Barbeque.

Save the Dates!

Here’s a list of the fall happenings - see inside for details for each of the events. Contact event sponsors if you would like to be involved!

ACS National Meeting
Boston, Massachusetts
August 22-26

Corning Museum of Glass
Corning, New York
October 2, 2010

National Chemistry Week
October 17-23, 2010

Chemistry Day Celebration
October 23, 2010
East Syracuse-Minoa High School



Syracuse Local Section Day at the Corning Museum of Glass

Written by Michelle Boucher

The Syracuse section is delighted to announce our fall trip to the Corning Museum of Glass will be taking place on Saturday, October 2nd. This trip is the result of an Innovative Project Grant Award from the ACS for our proposal “The Chemistry of Glass”. The combined package would typically cost \$49 per person, so we are delighted that our Innovative Project Grant Award has helped us subsidize the event.

We are using this award to fund our trip the Corning Museum of Glass (CMoG) - members will be able to enjoy the CMoG, and some time with fellow chemists, at a highly reduced price. The CMoG is a fantastic destination (especially for chemists!) and there is plenty to do and see. From glassblowing to fiber-optics, from art glass to micrographs of Corningware, the museum has something for everyone. What better way to network with fellow local chemists than over your own glassblowing experience?

The package will include: admission into the CMoG, an optional glass working experience, and a chance to meet up and network with some of your fellow Syracuse Section members at the Section’s Hospitality Suite. Families are welcome and encouraged!

Admission to the CMoG includes free hot glass shows on the half-hour, demonstrations including one on optical fibers, admission to the Innovations Center, and access to all the special exhibitions. Exhibitions on display in October include: “Medieval Glass for Popes, Princes and Peasants” which is the first exhibition in the United States devoted to glass made for daily use and display in the Middle Ages; “Tiffany Treasures: Favrite Glass for Special Collections” which showcases blown glass designed by Tiffany and made at his glasshouse in Corona, NY; and “Voices of Contemporary Glass: The Heinman Collection” which focuses on international studio glass from 87 international artists.

The glass working experience takes two hours, and will include designing and creating your own glass flower or ornament as well as a sandblasted piece. Due to space limitations in the glass blowing area, we only have space for 50 participants. There will be two available sessions for glass working; from 9:30-11:30am (25 participants) and from 12:30-2:30pm (25 participants). Participants need to be 14 years or older to work a glass flower but **sandblasting and ornament making are available for ALL ages!**

Cost:

ACS members and their families: \$10

Student members: \$10

Guests 19 years or younger who will not participate in glass: free

Please send your RSVP, including the registration form on the last page of this newsletter and your checks to: DJ Robinson, 2738 Brennan Road, Lafayette, NY 13084, **by 9/15**. We look forward to seeing you there!

Central New York papers and posters at the Fall 2010 ACS National Meeting in Boston

Written by Carmen Giunta

The upcoming ACS National Meeting, scheduled for Boston, August 22-26, will include more than 50 presentations (papers and posters) from individuals and institutions of the Syracuse Section. In addition, a cluster of Central New York chemists have organized symposia for the Chemical Education program at the meeting.

Nicole Snyder (Hamilton College) is one of two co-chairs of the Chemical Education (CHED) program for the Fall 2010 meeting. Among those she recruited to organize sessions are Sally Mitchell (East Syracuse-Minoa High School), Michelle Boucher (Utica College), and Carmen Giunta (Le Moyne College). Mitchell organized the High School Program (Sunday, August 22); Boucher organized a symposium on Advances in Teaching Organic Chemistry (Tuesday morning, August 24); and Giunta organized a symposium on Myths of a Chemical Nature (Thursday morning, August 26).

Area contributions will be in the programs of 12 different divisions or committees. The large divisions of Organic Chemistry, Chemical Education, and Inorganic Chemistry have the most presentations from Syracuse Section researchers (12, 11, and 10 respectively). The remaining presentations from the region are divided among the Academic Employment Initiative and the divisions of Biological Chemistry, Colloid and Surface Chemistry, Environmental Chemistry, Medicinal Chemistry, Physical Chemistry, Polymeric Materials Science and Engineering, and Polymer Chemistry.

Nearly half of the presentations from the region (25) come from faculty and students at Syracuse University. Karin Ruhlandt-Senge and Bruce Hudson are contributors to at least five presentations each. Four institutions from the State University of New York system account for most of the remainder, namely SUNY Cortland, SUNY Oswego, the SUNY College of Environmental Science and Forestry and SUNY Upstate Medical University. The remaining presentations are by individuals associated with Colgate University, Dr. King Community Magnet School (Syracuse), Hamilton College, Le Moyne College, and Utica College.

Authors, titles, and area affiliations are listed below. Note that the new ACS abstract submission system, which debuted for the Spring national meeting San Francisco, does not match individuals with affiliations in collaborations among different institutions. (That is, the individuals are listed and the institutional affiliations are listed, but the lists are not matched.) If there are omissions from this list, please contact Carmen Giunta (giunta@lemoyne.edu) so that those contributions can be listed in a future newsletter.

Abstracts of these and all other presentations scheduled for the upcoming national meeting can be found on the ACS website at

<http://abstracts.acs.org/chem/240nm/program/divisionindex.php>.

List of Central New York papers and posters

Debjyoti Bandyopadhyay, Preeti Sejwal, Deepali Prashar, Yan Yeung Luk (Syracuse University): ORGN 80 - Chiral surfaces that resist biofouling

Debjyoti Bandyopadhyay, Preeti Sejwal, Deepali Prashar, Yan Yeung Luk (Syracuse University): ORGN 938 - Controlling biofouling by a kosmotrope approach for surfaces and materials

Kestutis Bendinskas, Robert Birdsall, Michael Kiley, James A. MacKenzie (SUNY at Oswego): MEDI 466 - Effects of

lead and mercury on the blood proteome of children
 Sarah L. Binkley, Christopher J. Ziegler, Richard S. Herrick, Roger S. Rowlett, Amy Milsted (University of Akron, Colgate University, & College of the Holy Cross): AEI 16 - Interactions of $\text{Re}(\text{CO})_3^+$ based compounds with cells and proteins

Michelle A. Boucher (Utica College): CHED 342 - Choose your own (TLC) adventure: Designing a chromatography laboratory for first-semester organic students

Paul T Bremer, Prof. Anthony R Chianese (Colgate University): INOR 243 - Rigid, sterically diverse N-heterocyclic carbene-pyridine chelates: Synthesis, mild palladation, and palladium-catalyzed allylic substitution

Kelly A Burke, Patrick T Mather (Case Western Reserve University, Syracuse University): POLY 94 - Evolution of microstructure during strain recovery of a shape memory liquid crystalline elastomer

Kelly A Burke, Patrick T Mather (Case Western Reserve University, Syracuse University): POLY 151 - Main-chain liquid crystalline elastomers as shape memory polymers

Susan M. Clardy, Timothy J Fairchild, Robert P. Doyle (Syracuse University, Murdoch University, Australia): MEDI 443 - Oral delivery of insulin through the vitamin B₁₂ uptake pathway

David Collins, Tyler Narby, Danielle McCarthy (SUNY at Cortland): CHED 79 - Turning X-ray vision on the "Gold Penny" activity

Sarah Cryer, Camille Y Jones (Hamilton College): PHYS 510 - Crystal structures of the type II cyclopentane clathrate hydrate and the KOH-doped type II propylene oxide clathrate hydrate

Fehmi Damkaci (SUNY at Oswego): CHED 337 - Using relationship analogies in teaching organic chemistry

Fehmi Damkaci, Esra Altay (SUNY at Oswego): ORGN 1035 - New ligand for Ullmann type aryl halide couplings

Fehmi Damkaci, Esra Altay (SUNY at Oswego): ORGN 187 - Picolinamide derivatives as ligand in aryl-aryl Ullmann type couplings at RT

Kari Darling, Eric Burkholder, Jon Zubieta (Syracuse University): INOR 479 - Structural investigations into the oxometalate organodiarsenate system of organic/inorganic hybrid materials

K E Downey (SUNY at Cortland): CHED 366 - Quantum chemistry for the small, mixed-needs cohort: A tutorial approach

K E Downey, R B van Dover (SUNY at Cortland, Cornell University): INOR 514 - Thin film optical amplifiers: A high-throughput approach to synthesis, optical screening, and crystallization studies

Christopher H. Fazen, Robert P. Doyle (Syracuse University): MEDI 242 - Overexpression, isolation, and oral delivery of the appetite suppressant peptide PYY

Carmen J. Giunta (Le Moyne College): CHED 446 - Resonance structures: What they are and what they aren't

Mangesh J Goundalkar, Dr. Biljana Bujanovic, Dr. Thomas E Amidon (SUNY College of Environmental Science and Forestry): AGFD 131 - Effect of hot-water extraction on non-carbohydrate components of hardwoods

Xinzhu Gu, Prof. Patrick T. Mather (Syracuse University): PMSE 274 - Hardblock-free thermoplastic polyurethanes (TPUs) exhibiting shape memory

Hyunjoo Han, Patrick Lutz, Prof. Mathew M Maye (Syracuse University): COLL 257 - Synthesis of core-shell quantum dots via MAPS

Corey R Hine, Aaron Roy, Mathew M Maye (Syracuse University): PHYS 590 - New insights into ligand effects during quantum dot nucleation and growth

Stephanie Jones, Hongxue Liu, Charles C O'Connor, Jon Zubieta (Syracuse University, University of New Orleans): INOR 475 - Solid state coordination chemistry: Organic-inorganic hybrid materials constructed from copper 5-(4'-pyridyl)tetrazole networks with embedded molybdate clusters

Matthew D. King, Timothy M. Korter (Syracuse University): PHYS 492 - Influence of deuterium substitution on the terahertz spectra of hydrated molecular crystals

Amanda Lashua, Bruce S Hudson, Michael B Sponsler (Syracuse University): ORGN 227 - Isolated polyacetylene chains in a urea inclusion complex

Alex Levine, John M. McEnaney, Neal M. Abrams (SUNY College of Environmental Science and Forestry): INOR 444 - Novel oxynitride compounds from cellulose biotemplates

Yan Yeung Luk, Da Wei Cui, Deepali Prashar (Syracuse University): ORGN 105 - Water-driven reactions for protein modification without side products

Yan Yeung Luk, Lei Wu, Jyotsana Lal, Karen Alambra Simon, Erik A Burton (Syracuse University, Argonne National Laboratory): ORGN 818 - Noncovalent polymer assembly in water and their applications in materials fabrication

Michael P Masingale, Jane D Masingale (Le Moyne College, Dr. King Community Magnet School): CHED 436 - Spiral curricular approaches in General Chemistry: Increasing the conceptualization and the retention of knowledge for future applications

Elizabeth K Mitchell (Syracuse University): CHED 21 - Pop culture in the chemistry classroom

Allen Mo, Anthony R Chianese (Colgate University): INOR 242 - Synthesis, characterization, and catalytic activity of iridium-CCC-pincer complexes

Wayne Ouellette, Andrey V Prosvirin, Kim R Dunbar, Jon A Zubieta (Naval Surface Warfare Center, Syracuse University, Texas A&M University): INOR 275 - Structural chemistry and properties of metal organic frameworks based on polyazaheteroaromatic ligands

James J Pagano, Colleen M Alexander (SUNY at Oswego): ENVR 208 - Ambient levels of persistent and emerging air contaminants at Acadia National Park

Steven L Pellizzeri, Timothy Korter, Jon Zubieta (Syracuse University): INOR 482 - Solid-state simulation of the vibrational modes and intensities of simple vanadium phosphates

Bhawanie Persaud, Mathew M. Maye, David M. Sarno (Queensborough Community College of CUNY, Syracuse University): CHED 295 - Interaction of gold nanoparticles with nanofibers of polyaniline and sulfonic acid-substituted analogs

Deepali Prashar, Da Wei Cui, Yi Shi, Debjyoti Bandyopadhyay, James Dabrowiak, Yan Yeung Luk (Syracuse University): ORGN 104 - Protein modification for enhanced activities and targeted drug delivery

Deepali Prashar, Da Wei Cui, Yi Shi, Debjyoti Bandyopadhyay, James Dabrowiak, Yan Yeung Luk (Syracuse University): ORGN 751 - Modifying proteins with kosmotropes for enhanced activities and targeted drug delivery

Scott L Rogers, Anthony R Chianese (Colgate University): INOR 241 - Palladium-catalyzed synthesis of carbazoles via C-C cleavage

Francis Rossi (SUNY at Cortland): CHED 363 - Writing in chemistry: An introduction to the elements of grant writing for biochemistry students with limited content knowledge

Francis Rossi, Joshua A Baccile, Cassandra L Barnes, Daniel L Drew, Michael J Houghton (SUNY at Cortland): ORGN 653 - Synthesis of photocleavable peptide conjugates using click chemistry

Daniel J Sandberg, Min-Hsuan Chen, Kunnel R Babu, Jose Bubis, Arjun Surya, Lavoisier S Ramos, Heidi J Zapata, Jhenny F Galan, Robert R. Birge, Barry E. Knox (University of Connecticut, SUNY Upstate Medical University): BIOL 105 - Extracellular loop 2 and 3 of short wavelength cone opsins

Debbie Valentin, Dr. Robert P Doyle (Syracuse University): MEDI 243 - Using haptocorrin and intrinsic factor as oral delivery agents

Fengrong Wang, Kestutis Bendinskas (SUNY at Oswego): CHED 173 - Synthesis and cross-linking of 3-thio-4-hydroxybutanoic acid to develop anti-GHB ELISA

Kevin J. Watkins, Leonard M Breindel, Michelle D. Dallas, Daniel V. Tryon, Casey C. Raymond (SUNY at Oswego): INOR 753 - Development of a simple preparation method of multimetallic oxides related to the SHARK project

Ewelina M. Witko, Timothy M. Korter (Syracuse University): PHYS 534 - Terahertz spectroscopy and solid-state density functional theory of oxidizers used in improvised explosives

Xue Xu, Hongjian Lu, Rupple Joshua, Peter Zhang (University of South Florida, Hamilton College): ORGN 348 - Design and synthesis of cobalt(II) porphyrin catalysts for stereoselective intro-molecular cyclopropanation

Xue Xu, Shifa Zhu, Xin Cui, Hongjian Lu, Rupple Joshua, Peter Zhang (University of South Florida, South China University of Technology, Hamilton College): ORGN 617 - Design and synthesis of Cobalt(II) porphyrin catalysts for stereoselective inter- and intro-molecular cyclopropanation

Kin S Yang, Bruce S Hudson (Syracuse University): PHYS 576 - Quantum chemical computations of H/D deuterium isotope effects on 1H and 13C NMR chemical shifts

Arden P. Zipp (SUNY at Cortland) : CHED 25 - Trace metal elements in nutrition

Joshua Zylstra, Nathaniel Miska, Prof. Mathew Maye (Syracuse University): COLL 258 - Modular phase transfer and ligand exchange protocol for quantum dots

Save



Syracuse Section Schedule

We are a great section with lots of exciting things planned, I hope you'll put something on your calendar and join us at an event!

Fall Schedule

October 2	Corning Museum of Glass
October 23	National Chemistry Day



Syracuse Chemist

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Deadline for material:

September 2009 Issue is
September 5, 2009. Please send
submissions to
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Founded in 1908, The
Syracuse Chemist (ISSN 0039-792X) is
the American Chemical Society's
Oldest Section publication issued
monthly (except July and August) by
the Syracuse Section of the Society. It
is distributed free to members of the
Syracuse Section – and to others for
\$0.25 per copy or \$2.00 per year.

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Organized as the Syracuse
Chemical Society in 1902 and chartered
as a section of the American Chemical
Society in 1907, the Syracuse Section
now includes Central New York
counties of Cayuga, Cortland, Madison,
Oneida, Onondaga, Oswego and
Seneca.

POSTMASTER: Send address changes to:
Kelley J. Donaghy, Editor; The Syracuse
Chemist; 2738 Brennan Road, LaFayette, New
York 13084

Advertising Rates

Full Page	\$70.00
Half Page	\$50.00
Quarter Page	\$25.00
One-eighth Page	\$20.00

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In the next issue:

Chemistry Day Plans - This year's theme - "Behind the Scenes with Chemistry"

October Science Café

December Meeting - Calling all Brewer's - Beer Tasting and Homebrew Competition! (Relax - Have a Homebrew.....)

Corning Museum of Glass Registration Form

I plan to attend the Corning Museum of Glass ACS Day on October 2nd. Here is my check for myself and my guests.

No Glass over 19 (\$10/person) _____(number of participants)

Morning Glass Making Session (9:30-11:30) (\$10/person) _____ (number of participants)

Afternoon Glass Making Session (12:30-2:30) (\$10/person) _____(number of participants)

Number attending under 19 not participating in the glass making activities (free)_____

Total # of participants over 19 and/or making glass _____ X \$10 = Total Enclosed _____

Names of all Participants:_____

Checks should be made out to Syracuse Local Section and sent to:

DJ Robinson
2738 Brennan Road
Syracuse, NY 13084