

The Minnesota Chemist

Official Publication of the Minnesota Section of the American Chemical Society

Issue 2, March - April 2016



Greetings from the Chair

Does anyone else think March's arrival, even with a leap day, has come quickly this year?

I am pleased to announce that we are updating our bylaws to allow electronic elections – you should be voting on-line in the next section election. We have proposed amendments to the Section Bylaws, which have been reviewed by the Committee on Constitution and Bylaws. All that remains now is ratification by the section.

We will be holding the ratification vote at our April meeting. You will find a link to the current and proposed bylaws within this newsletter. As always, if you have any questions or concerns, please do not hesitate to contact me by email russ.pylkki@tenantco.com or phone 763.250.4607.

Russ Pylkki



Update to Local Section Bylaws

The current and proposed bylaws are posted on the MN ACS website: <http://mnacs.sites.acs.org/localsectionbylaws.htm>. Please review the changes and contact Russ Pylkki by email russ.pylkki@tenantco.com or phone 763.250.4607 if you have questions.



March 15th: Minnesota Technical Symposium (MinnTS)

Title: The Internet of Things (IoT)

Presenter: Stefan Lindvall, CEO of Multi-Tech Systems, Inc.

Title: Recent Trends in the Cyber Security Threat Landscape

Presenter: Noah Korba, Senior Manager of Global IT Security Infrastructure, Forensics and Incident Response Teams at General Mills

Schedule:

4:00 pm - Innovation Center Tour 1 (Maximum 50 people)

5:00 pm - Innovation Center Tour 2 (Maximum 50 people)

5:00 - 6:00 pm - Registration, social with refreshments

6:00 - 7:00 pm - Dinner (followed by move into auditorium)

7:00 - 7:15 pm - Welcome message, introductions (Gary Korba)

7:15 - 8:00 pm - Stefan Lindvall, "The Internet of Things"

8:00 - 8:15 pm - Break

8:15 - 9:00 pm - Noah Korba, "Recent Trends in the Cyber Security Threat Landscape"

Location: 3M Innovation Center

Cost: \$25

Meal Ticket: Reservations open Feb. 20th via the MinnTS website (<http://www.minnts.org/>). Under Reservation click on Mn-ACS.

Deadline: Reservations are being taken thru Tuesday, March 8, 11:59PM.



April 11th: Composite Tungsten Polymer Matrices

Title: Adventures in Tungsten: An Empirical Overview from Mine to Powder Metal

Presenter: Rod Williams, Tundra Industries

Schedule:

5 – 6 pm: Executive meeting

6 – 7 pm: Dinner

7 – 8 pm: Presentation

Location: TBD (White Bear Lake area)

Cost: TBD

Menu: TBD

Meal Ticket: TBD

Deadline: TBD



Proposal to Rename the Minnesota Award

Trisha Miller

A proposal has been put forth to the executive committee to rename the Minnesota Award for Outstanding Contributions to the Chemical Sciences. The award is given on average every three years by the Minnesota Local Section of the ACS to a Minnesota chemist. Recipients of this career award have been from both industry (3M, Cargill, General Mills, etc.) and academia (U of M, Macalester, Augsburg, Hamline, etc.).

The new proposed name is the I.M. Kolthoff Award for Outstanding Contributions to the Chemical Sciences. Izaak Kolthoff was a professor at the University of Minnesota from 1927-1962 where he led a distinguished career in analytical chemistry. Professor Kohltoff was the awarded the Minnesota Award in 1960.

The executive committee will vote on the proposal at their April meeting and the results will be announced at the awards banquet in May. **The executive committee is seeking input from the members of the local section** to help inform their decision. Please send comments either in favor of renaming the award or in favor of keeping the current name to Trisha Miller at tmhoette@gmail.com. These comments will be collected and shared with the executive committee prior to the vote. Your comments can remain anonymous if you wish. Thank you in advance for your consideration.



ACS Senior Chemists Lunch Meeting on March 9th

Lynn Hartshorn

The next lunch meeting of the ACS Minnesota Section Seniors group will be held on **Wednesday March 9th** at 11:30 am at the **Green Mill Restaurant on Hamline and Grand Avenue in St Paul**. All seniors (not necessarily retired) and guests are welcome.

The 20 minute short talk will be given by Amy Hauck, a graduate student at the Bernlohr lab, Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota. Her research is concerned with obesity induced insulin resistance. She will talk about "Linking Oxidative Stress to to Metabolic Dysfunction in Obesity". Thanks to one of our group, Judy Benham, for arranging this talk.

RSVP by Monday March 7th to Ken Latham, email: klatham1@mnmicronet (since Lynn will be out of town).

The Green Mill has a free parking lot on the north side of Grand Avenue, about 50 yards west of the restaurant, or you can park on the street.

We will soon be looking for a speaker for the May lunch. Please contact Lynn (LGHARTSHORN@stthomas.edu) or Ken (klatham1@mnmicronet) with any ideas you might have.



“What Chemists Do” featuring MN ACS Councilor Sarah Mullins

Ribka Gemilangsari

As part of our effort to increase visibility of chemists, ACS Multimedia Lab is producing a series of “What Chemists Do” short videos. The “What Chemists Do” short videos feature chemists and the diversity of careers in the profession. ACS hopes the video content will be insightful to both aspiring chemists (students) and chemical professionals.

ACS is delighted to have produced a short video featuring the councilor of the Minnesota Local Section, Sarah Mullins of 3M. The link to the video is: <https://www.youtube.com/watch?v=XhcoKGiuR9Y>



Upcoming Chemists-in-the-Library Events

Philippe Buhlmann

March 12 at 10:30 AM – Roseville Public Library

April 2 at 1:30 PM – East Lake Library

April 23 at 1:30 PM – Rockford Road Library



2016 STEM Scholarship Applications

Tim Barrett, *Director of STEM Education & Workforce Development*, Minnesota High Tech Association (MHTA)

The Minnesota High Tech Association (MHTA) is currently accepting applications for the Minnesota High Tech Association Foundation (MHTF) Scholarship. The scholarships are for Minnesota undergraduate students in science, technology, engineering and mathematics (STEM) disciplines. These awards range from \$2,500 to \$5,000 awards and can include internship opportunities at MHTA member companies. MHTF supports diversity in this application and award process.

We also have Named Scholarships in specific areas supported by our generous sponsors. In the past, we have provided scholarships in Computer Science, STEM Education, Data Science, Robotics, Cyber Security, and Women in STEM. We encourage you to let students know of this additional and exceptional opportunity.

Eligibility requirements:

- Must be pursuing an undergraduate degree in a STEM field or in STEM teaching
- Only students with sophomore through senior academic status in the current school year may apply. Sophomore status may include students who have achieved this status through advanced placement (AP) credit or post-secondary options (PSEO)s
- Applicants must be enrolled at an accredited, Minnesota-based higher education institution.
- In addition to traditional STEM fields, health science majors whose studies will not lead to participation in direct patient care are welcome to apply.
- Scholarships will be awarded in the fall term of 2016 and presented to recipients at MHTA's Tekne Awards in November. Students must be enrolled at time of award.
- **Deadline for application is April 1, 2016.**

The application form and more detailed information are available at our website:

<http://www.mhta.org/educate/stem-scholarships/>



Obituaries – Peter A. Howell

Howell, 86, died on Aug. 19, 2015, in Oak Park Heights, Minn.

“Peter’s Ph.D. thesis was a foundation of the borane model, which earned William Lipscomb the 1976 Nobel Prize in Chemistry. He spent five years in the Linde division of Union Carbide and then he joined 3M in 1969. Peter served as editor of the *Minnesota Chemist* newsletter of the ACS Minnesota Local Section for over a decade and was coauthor of nine papers and an inventor on five patents; his glass bubble patent allowed submarines to dive deeper. On the Camp St. Croix Board of the YMCA Twin Cities for 24 years, he enjoyed music and the outdoors. His memorial event concluded with a campfire.”—Wayne C. Wolsey, colleague

Most recent title: senior research specialist, 3M

Education: B.S., chemistry, California Institute of Technology, 1950; Ph.D., physical chemistry, University of Minnesota, 1955

Survivors: wife, Gladys; daughters, Charlotte and Mary Langlie; son, Thomas; four grandchildren; and a great-granddaughter



Obituaries – Emil J. Slowinski

Slowinski, 93, died on Oct. 13, 2015, in Minneapolis.

“Emil Slowinski’s doctoral work on structures of iodine fluorides was significant in correlating with valence shell electron pair repulsion (VSEPR) theory. Before joining Macalester College, he collaborated with

Bill Masterton of the University of Connecticut in writing “Chemical Principles,” a general chemistry textbook that blended descriptive chemistry with theory. An accompanying laboratory manual, “Chemical Principles in the Laboratory,” which I coauthored with Slowinski, has gone through several editions. He went with his family on three international sabbaticals, to Oxford University, the University of Warsaw, and the University of Christchurch.”—Wayne C. Wolsey, colleague

Most recent title: DeWitt Wallace Professor of Chemistry Emeritus, Macalester College

Education: B.A., chemistry, Massachusetts State College, 1946; Ph.D., physical chemistry, Massachusetts Institute of Technology, 1949

Survivors: wife, Emily; sons, David, Walter, and Nathan; daughters, Amy and Marya; 10 grandchildren; and three great-grandchildren

If you have content for The Minnesota Chemist, please send it to Becky Guza, Editor (becky.guza@hbfuller.com)

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