



The Minnesota Chemist

Official Publication of the Minnesota Section of the American Chemical Society

Issue 5, September - October 2015



Greetings from the Chair

Dear Minnesota Chemists,

I hope everyone had a great summer. Below is a preview of the MN ACS fall meeting schedule. Hope to see you at an upcoming event.

September 8th:

Speaker Marina Gorina

DeGidio's Restaurant and Bar, 425 7th St W, St. Paul

Dinner at 6 pm. Speaker at 7 pm.

October 13th:

Julie Miller Jones, "Nutrition Potpourri: Everything you wanted to know about chemistry in nutrition but were afraid to ask."

Bent Brewstillery, 1744 Terrance Drive, Roseville

Dinner at 6 pm. Speaker at 7 pm.

November 5th:

Dr. Stephen Hecht, "Metabolism and DNA Interactions of Carcinogenic Tobacco-Specific Nitrosamines"

University of MN Cancer and Cardiovascular Research Building, 2231 6th St SE, Mpls.

Dinner at 6 pm. Speaker at 7 pm

November 10th:

MN-ACS Career Fair

St. Catherine University, 2004 Randolph Ave., St. Paul

4-6 pm recruiters available. Career panel at 6 pm.

December 16th:

Holiday Social.

Mancinni's Charhouse, 531 7th St W, St. Paul

Networking 5:30 pm. Dinner and program 6:30 pm.

Dr. James Wollack

Assistant Professor of Chemistry
St. Catherine University
MN ACS Chair



September 8th Meeting

The History of Russian Contributions to Chemistry and the Periodic Table Marina Gorina, Hamline University

This talk will focus on the history of designing the Periodic Table by Dmitri Mendeleev. It will also discuss the contribution of some other Russian scientists in the field of chemistry.

Schedule:

5 – 6 pm – Executive meeting
6 – 7 pm – Dinner
7 – 8 pm – Presentation by Marina Gorina

Menu for Dinner:

Appetizers, salad, pasta with vegetarian option. Cash bar available.

Cost:

\$19 for dinner (\$10 for students).

Location:

DeGidio's Restaurant and Bar, 425 7th St W, St. Paul, MN 55102



The Magic of Chemistry – September 12th

An event specially put on for mommy chemists to share their love of chemistry with their children while networking with other moms, dads, and professionals in chemistry!

Enjoy a magic-filled afternoon with your children, grandchildren, nieces and nephews, cousins, or any other children in your life. The magic show will open with a **glowing** chemistry act sure to amaze the audience, followed by many fun and safe tricks your little magicians can do on their own or with some help. There will be magic sand, color appearing **chromatography** butterflies, shape shifting, **color changing milk**, walking on "water" *oobleck*, and **much more!** For the intermission, free liquid nitrogen ice cream and other tasty concessions will be provide to keep the show going. During the first and second acts, there will be a fishing prize game and exciting door prizes so that the kids can bring some chemistry home. After they have mastered their chemistry magic tricks, the show will end with its last and final trick, a grand finale full of **exploding colors!**

Schedule:

1:00 – 1:10 pm – Opening magic trick
1:10 – 2:00 pm – Act 1 - Explore activities, play games, network
2:00 – 2:30 pm – Intermission
2:30 – 3:20 pm – Act 2 - Explore, play and network

3:20 – 3:30 pm – Grand Finale

Location:

Mendakota Park Picnic Shelter, 2171 Dodd Road, Mendota Heights, MN 55120

Cost:

Admission is FREE

RSVP:

Please email Arianna Kooyman Ahl at amkooyman@gmail.com with the number of adults and children attending and with any questions by September 10th. Volunteers needed and welcome!



October 13th Meeting

Nutrition Potpourri: Everything you wanted to know about nutrition but were afraid to ask.

Dr. Julie Miller Jones

A cursory look at the world of food and nutrition controversies from arsenic in rice, mercury in fish, BPA in cans, 'toxic' gliadin, villainous carbs and artificial sweeteners, organic and conventional foods, plant-based diets and paleo diets and "redeemed" saturated fats, eggs and cholesterol. There are media stories about all of these complex issues where a few correctly distill the science and most make sound bites that misrepresent it. Further muddling the mix are individuals who use the motto "I eat, therefore I know" and share their perspective in a blog. Sciences, including chemistry and biochemistry, give one perspective; yet their answers and the pronouncements of regulatory bodies the world over are distrusted by consumers barraged with recommendations to "not eat chemicals and to avoid eating things their grandmothers never ingested." Many consumers subscribe to their dietary principles with the same passion with which they hold religious beliefs. The science behind the current nutrition controversies will be discussed along with various other points of view.

Bio: <http://grainfoodsfoundation.org/experts/julie-miller-jones-phd-ln-cns/>

Schedule:

5 – 6 pm – Executive meeting

6 – 7 pm – Dinner

7 – 8 pm – Presentation by Dr. Julie Miller Jones

Menu for Dinner:

Davanni's pizza, salad, dessert, cash bar

Cost:

\$10 in advance, \$15 at the door, Students \$5

Location:

Bent Brewstillery, 1744 Terrance Drive, Roseville, MN 55113

ACS Fellows



James Wollack

Congratulations to the class of 2015 ACS fellows. The title ACS fellow is given to recognize and honor members of the American Chemical Society for their outstanding achievements in and contributions to the science and the profession and for their equally exemplary service to the Society. This year 78 chemists nationwide were named ACS fellow. The Minnesota section led all other sections with six new inductees to this prestigious group. Only around 0.5% of the ACS membership has been named ACS fellow for their service and scientific contributions.

Yusuf Abul-Hajj	University of Minnesota
Marilyn D. Duerst	University of Wisconsin–River Falls
Rebecca Cowan Hoyer	Macalester College
Ramesh C. Kumar	3M Corporation
R Lee Penn	University of Minnesota–Twin Cities
Wayne C. Wolsey	Macalester College (Emeritus)



Councilors' Report on Boston ACS Meeting – August 19, 2015

Wayne C. Wolsey

The Minnesota ACS Section was represented at the August 19 Council session of the Boston ACS Meeting by Councilors Marilyn Duerst, Sarah Mullins, Danae Quirk Dorr, and Wayne Wolsey, along with Alternate Councilor Ramesh Kumar.

The Meeting was a good one with 13,888 attendees and 9,271 papers. The Exposition had 475 booths. ACS membership was 156,561 as of July 31, down 2,055 from 2014.

At the Council meeting several items were voted upon. Preferential Voting was endorsed by Council for national elections of President-Elect and At-Large members of the Board. Similarly, a Petition and Procedure for Expulsion of a Member both were approved. New International Chemical Sciences Chapters were approved for Australia, Brazil, Nigeria, Peru, and United Arab Emirates. (All actions above are contingent upon approval of the Board of Directors.)

On the Fall Ballot, Section members will choose between G. Bryan Balazs (Lawrence Livermore National Laboratory) and Allison A. Campbell (Pacific Northwest National Laboratory) for President-Elect and District V Director candidates John E. Adams (University of Missouri-Columbia) and Kenneth P. Fivizzani (Retired-Nalco Company, Illinois). Councilors will choose two for Director-at-Large from among five candidates.

Year-end financial projections are that total revenue of \$512.1 million is favorable by \$481,000 and expenses of \$496.6 million are \$1.6 million favorable to the approved budget. The Board finalized a 2016 national meeting registration fee of \$415—including a new technology surcharge of \$15. The Board also reauthorized funding for the ACS Science Coaches program.

The 2015 theme of National Chemistry Week is Chemistry Colors Our World. Marilyn Duerst, of the Community Activities Committee, led in the development of the activities. The 2016 theme will be Solving Mysteries Through Chemistry.

In the annual recognition of service on the ACS Council, Wayne Wolsey was recognized for 30 years of membership.

The Section was a nominee for a ChemLuminary Award (Outstanding Local Section Industry Event). James Wollack and Becky Guza prepared an informational poster featuring the Career Fair held in November, 2014; the Award went to the Montana Section.

Noteworthy also are the six Minnesota Section members receiving ACS Fellow designation: Councilors Marilyn Duerst (UW-River Falls), Ramesh Kumar (3M), and Wayne Wolsey (Macalester), along with University of Minnesota Professors Yusuf Abul-Hajj and R. Lee Penn and Macalester's Rebecca Cowan Hoye.



MUACC 2015 Midwest Universities Analytical Chemistry Conference

November 5–7, 2015 at the University of Minnesota

The MUACC conference series looks back at a 68 year old tradition of attracting faculty, postdoctoral associates, and advanced graduate students both from prestigious research universities and from undergraduate institutions from a wide geographical area. The MUACC conferences are unique because they focus on identifying new trends in research and instruction of analytical chemistry and in forging new alliances among research groups.

The conference style is informal, with most of the presentations being of the “chalk-talk” variety. In the words of J. Steel Hutchinson, third-generation owner and president of GFS Chemicals, “The Uniqueness of MUACC... is its ability to help participants step outside of their own paradigm, avoid myopic vision, and find a fresh approach to problem solving.”

Notably, MUACC has always stood out by attracting faculty both from primarily undergraduate institutions and top research universities. This is readily apparent from the list of chemistry departments that have recently hosted MUACC, which includes, e.g., the Iowa State University, University of Notre Dame, University of Wisconsin Madison, Purdue University, University of Illinois at Urbana-Champaign, and the University of Pittsburgh.

For more information, see www.muacc.org or contact the program chair, Phil Buhlmann <buhlmann@umn.edu> (Department of Chemistry, University of Minnesota).



Mark Your Calendars for the Senior Chemists' September Lunch

Lynn Hartshorn

Please join us for the Senior Chemists' Lunch, which will be held at 11:30 am on Wednesday September 16th at the Green Mill Restaurant on Hamline Avenue and Grand Avenue in St. Paul. We will order from the menu. Guests are welcome! Fred Gustafson will be giving a short talk about Dry Erase technology with demonstrations. If you have questions, please contact Lynn Hartshorn at LGHARTSHORN@stthomas.edu

Peter A. Howell



Peter Howell was a long time editor of The Minnesota Chemist.

Howell, Peter A. Age 86, Oak Park Heights, MN, passed peacefully on August 19, 2015, with his family at his side. Survived by wife, Gladys, daughters Mary (Steve) Langlie, Charlotte Howell, son Thomas Howell, four grandchildren, and one great granddaughter. A celebration of his life will be held Sat., Sept. 12, 3:00, at Camp St. Croix, Hudson, WI.

Star Tribune, Published on August 30, 2015

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

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