

The Minnesota Chemist

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Greetings from the Chair

September is around the corner – which means that it is time to put my snatoms (magnetic molecular modeling kit, arrived last week) down and re-boot our section meetings!



'The Chemistry of Cannabis' opens our fall series of meetings (Sep 13). Dr. Rachel Loeber is from LeafLine Labs, one of the two medical marijuana suppliers in Minnesota.

In October, we will be convening outside of the metro area – in Mankato at Bethany Lutheran College (11 Oct). Timing / topic / speaker information will be posted as it finalized.

The annual Career Fair will be held on 15 November at St. Kate's. We are adding a speaker this year - Amy Lindgren: author of 'Working Strategies' column in the Pioneer Press and owner of Prototype Career Service, a career consulting firm. Amy will be discussing career management, a topic which should be of interest to our general membership.

Our Winter Social is coming in December and I am trying to secure a date at the Urban Growler. They're a microbrewery in Saint Paul with a kitchen (!). Details coming soon.

Russ Pytkki <Russ.Pytkki@tenantco.com>



September 13th: The Chemistry of Cannabis

Rachel Loeber, PhD, VP of Laboratory Operations - LeafLine Labs, LLC

Location: River Oaks Golf Course, 11099 South Highway 61, Cottage Grove, MN (Warning to Google Maps users: you are likely to be directed to the middle of the golf course (from the North). Use 'River Oaks Weddings' or check the satellite view and you will see the clubhouse on the NE side of the course.)

Time: 5 pm - Executive Meeting; 6 pm - Dinner; 7 pm - Presentation

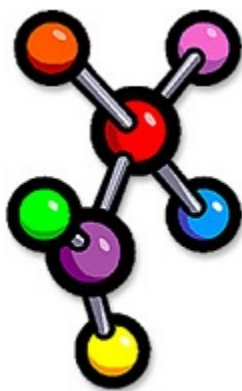
Cost: \$20 member / \$5 student

Menu: Main - chicken marsala, roast beef; side dishes - mixed green salad, fruit platter, green beans amandine, herb roasted red potatoes; dessert - brownies

Meal Ticket: Go to the "Web Store" link to purchase meal reservations through PayPal.

Abstract: As of July 1st, 2015, patients in Minnesota with qualifying medical conditions had the opportunity to expand their treatment options to legally include medical marijuana. Over the past year, the program created and governed by the Minnesota Department of Health has grown in both patients count and in number of qualifying conditions, with Intractable Pain most recently added August 1st of this year. Investigations into the chemical composition of Cannabis sativa have resulted in the identification of over 400 compounds, including numerous cannabis-specific cannabinoids and terpenes. While the medicinal effects of many of these compounds are not yet known, several key cannabinoids have been shown to reduce inflammation, increase appetite, provide pain relief, and reduce seizure activity. As a chemist in this evolving industry, every day is an adventure. Through this presentation, you will get an inside look into the life of a cannabis chemist and hopefully gain a better understanding of this new and sometimes controversial industry.

Speaker Bio: An analytical chemist by training with experience in chromatography and mass spectrometry, Loeber leads our extraction and formulation team. She earned her Ph.D. in Medicinal Chemistry in the laboratory of Dr. Natalia Tretyakova at the University of Minnesota - Twin Cities and is well versed in the following techniques: HPLC, LC/MS/MS, GC, GC/MS and ICP/MS. She enjoys networking with other analytical chemists and has served as Symposium Chair for the Minnesota Chromatography Forum for the past six years.



Life Size Kid's Chemistry - September 10th

Arianna (Kooyman) Ahl

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

Enjoy a larger than life sized afternoon with your children, grandchildren, nieces and nephews, cousins, or any other children in your life. The event will open with a **growing** chemistry demo sure to engross the audience, followed by many fun and safe demos and activities your children can do on their own or with some help. There will be kids as atoms, **BIG SCALE MOLECULAR MODELS**, magic sand, polymerization, **color changing milk**, a pool of **oobleck**, and **much more!** For the break, liquid nitrogen ice cream will be made and used to test the kids' knowledge of what they have learned. The event will close with a raffle for science related prizes and one last HUGE activity.

When:

Saturday, September 10th, 2016

1:00 – 1:10 pm: Opening demo

1:10 – 1:40 pm: Kids activities and demos

1:40 – 2:00 pm: Liquid nitrogen ice cream

2:00 – 2:30 pm: Kids activities and demos

2:30 – 3:00 pm: Closing demo and raffle

Where:

Mendakota Park Picnic Shelter

2171 Dodd Road

Mendota Heights, MN 55120

Cost: Free

RSVP: Please email Arianna Ahl at amkooyman@gmail.com with the number of adults and children attending and with any questions by September 7th. Volunteers are needed and welcome!

Science, sweets, and prizes put on by the local MN ACS and made possible through the Young Chemists and Innovative Project Grant.



ACS Senior Chemists' Group

Lynn Hartshorn

Please mark your calendars for the first Seniors' Lunch in the fall. It will be held on Wednesday, September 21st at the Green Mill Restaurant on Hamline and Grand Avenue in Saint Paul, beginning at 11:30 am. We will have a 20 minute talk but it is not finalized yet. Reservations are due by Monday, September 19th. Please email Lynn at lghartshorn@stthomas.edu with your reservation, and since she will be on vacation for much of August, please copy Ken Latham at klatham@mnmicro.net. New members are very welcome, as are friends and guests! Looking forward to seeing everyone in September!



Linda's 100th Outreach Volunteer Event with Chemists-in-the-Library

Philippe Buhlmann

The Chemists-in-the-Library volunteers visited on Saturday, 30 July 2016, the Rice Street Library in Saint Paul for two hours of fun with hands-on chemistry activities for all kids tall enough to reach the tabletop. They celebrated Linda Nanko-Yeager, for whom this was the 100th of these monthly outreach events of the Minnesota ACS section. New volunteers are always welcome (<http://mnacs.sites.acs.org/chemistryinthelibrary.htm>).



Volunteers Todd Williams and Linda Nanko-Yeager at the July Chemists-in-the-Library outreach event.



Upcoming Chemists-in-the-Library Events

Philippe Buhlmann

September 17 at 1:30 PM – North Regional

October 5 at 5:00 PM Franklin Ave

October 22 at 1:30 PM Minneapolis Central Library

November 12 at 1:30 PM Augsburg Park Library

December 10 at 1:30 PM Eden Prairie



Councilors' Report from Philadelphia ACS Meeting - August 21-25, 2016

Wayne Wolsey

The Minnesota ACS Section was represented at the Council Meeting by Councilors Marilyn Duerst, Sarah Mullins, Danae Quirk Dorr, Wayne Wolsey, and Alternate Councilor Michael Wentzel-Augsburg College.

The attendance at the Philadelphia meeting was just over 13,000, with 7,500 regular attendees, 3,300 students, and 1,200 exhibitors. The early member registration fee for the 2017 national meetings has been set at \$445.

Council elected new members to the Council Policy Committee (CPC), the Committee on Nominations and Elections (N&E), and the Committee on Committees (CONC).

The Committees on Chemical Abstract Service (CCAS) and Analytical Reagents (CAR) were approved for continuation. Council approved a petition for the annexation of two counties in Texas (by the Permian Basin Section) and for unassigned counties in Michigan (along with Menominee Co.) by the Upper Peninsula Local Section. A petition was approved to extend the Unemployed Members' Dues Waiver from the current two years to three years. A new version of the Chemical Professional's Code of Conduct was endorsed. Bylaws for Divisions in Probationary Status and Charter Bylaws for New Local Sections were approved. New ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq were approved. All above Council actions were subject to subsequent confirmation by the Board of Directors.

President Donna Nelson, along with Co-Chair Atilla Pavlath, had led a Presidential Task Force on the U.S. Employment of Chemists. They had prepared a set of Proposed Recommendations (13 points) dealing with student education and preparation for industrial jobs, under-representation of minorities (URM), opportunities for graduates and mid-career professionals in the workplace, supply and demand, and global factors—including outsourcing and immigration. Councilors spent a half-hour sharing their thoughts, comments, and suggestions in a Special Discussion—to aid with the preparation of the final report.

In issues relevant to the Minnesota Section: Marilyn Duerst and Sarah Mullins have completed their final (maximum allowed) terms, respectively, on the Committees on Community Activities and Chemistry and Public Affairs. Marilyn wrote two student activities in the special issue of Celebrating Chemistry for 2016 National Chemistry Week. CAR (of which Wayne Wolsey is a member) recently published the 11th edition of the Reagent Chemicals compendium. The MN Section revised bylaws were approved by the Committee on Constitution and Bylaws—now permitting electronic ballots. This fall Section members will be choosing between Thomas Gilbert (Northeastern University) and Peter Dorhout (Kansas State University) for President-

Elect. Some members may remember that Dorhout previously was our Division Director. Councilors will vote on candidates for Directors-at-Large.

ACS is making a serious effort to look at ways to improve the governance system.

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

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