

The Chemical Bulletin

http://chicagoacs.org

JANUARY • 2019

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY JOINT MEETING WITH THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS FRIDAY, JANUARY 25, 2019

Main Location: Roosevelt University Alumni Hall 1400 N. Roosevelt Blvd Schaumburg, IL 60173

http://chicagoacs.org/images/downloads/Maps of venues/venuemap rooseveltschaumburg 2017.pdf

https://www.roosevelt.edu/campuses/schaumburg

PARKING: Free

Also Being Streamed to Satellite Location:

Purdue University Northwest Gyte Building Room 240 2200 169th Street Hammond, IN 46323

PARKING: Cost: Free

http://chicagoacs.org/images/downloads/Maps of venues/purduenw map.pdf https://www.pnw.edu/visitors-guide/maps/hammond-campus

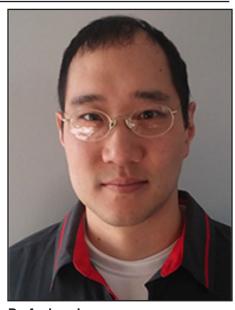
 REGISTRATION AND POSTER SESSION
 5:30 PM - 6:30 PM

 PRE-DINNER PRESENTATION
 6:00 PM - 6:20 PM

 DINNER
 6:30 PM - 7:30 PM

 INTRODUCTORY REMARKS
 7:30 PM - 7:45 PM

 MAIN LECTURE
 7:45 PM - 8:30 PM



Dr. Andrew Lee
Northwestern University College of
Engineering
"Patienal Capacity Vaccine Design

"Rational Cancer Vaccine Design Based on Spherical Nucleic Acids"

CHICAGO ACS BOARD AND MONTHLY MEETING SCHEDULE FOR 2019

BOARD MEETINGS	DINNER MEETINGS
Jan 10	Jan 25
Feb 7	Feb 22
Mar 14	Mar 21
Apr 11	Apr 8
May 9	May 3
Jun 13	Jun 20
Aug 1	
Sept 12	Sept 27
Oct 10	Oct 25
Nov 14	Nov 21
Dec 12	Dec 13

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MENU

Buffet Style: Garden Salad, Rosemary Chicken, Vegetable Lasagna in Tomato Cream Sauce, Tricolor Roasted Potatoes, Roasted Vegetable Medley, dinner roll, desert, beverage

\$15 – ACS or AIChE Members \$17 – Non Member

RESERVATIONS:

Dinner Registration Deadline: 11:00 am on Monday, January 21 Lecture-only Registration Deadline: 11:00 am on Wednesday January 23

Dinner reservations are required and should be received in the Section Office via phone (847-391-9091), email (chicagoacs@ameritech.net) or website (http://chicagoacs.org/meetinginfo.php?id=124&ts=1510071845). PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

COMMENTS FROM THE PAST CHAIR

The Chicago Section is finishing up another year of member activities and outreach events. We have sponsored ten program meetings, highlighted by the presentation of the Willard Gibbs Medal to Professor Cynthia Burrows of the University of Utah and the presentation of Northwestern University's Basolo Medal to Professor Edward Solomon of Stanford University. Our outreach programs included Chemistry Celebrates Earth Week, the Illinois State Fair, Chemistry Day, Girl Scout and Boy Scout chemistry merit badge programs, Chemistry Scholarship Examinations, and several other activities. We mourned the loss of Tony Toussaint, our Section Chair, in June. Tony's service to our Section reflected his care for and support of our members. We miss his upbeat demeanor and positive attitude. Our Board members stepped up to fill in wherever needed, and our activities continued with good participation. As usual, Gail Wilkening made so many extra contributions. I appreciate everyone's support during this time. From an administrative viewpoint, we have approved a new set of Bylaws and are finalizing our historical Policy Declarations. Our Board members have responded to a survey about the Section with suggestions for further improving our organization, programs, and public outreach. Tim Marin, our 2019 Chair, is leading our review of the survey results. Although designated

by a sad event, I was honored to serve the Chicago Section as Chair for part of 2018. Please give Tim your strong support and encouragement during 2019. If you have not been an active member of the Chicago Section, consider getting involved in 2019, perhaps by attending one of our program meetings. Many of our program meetings are streamed to multiple locations; one is probably close to you.

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Ken Fivizzani

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COMMENTS FROM THE CHAIR

Chicago ACS has a long tradition and legacy of community involvement and outreach, and 2018 was no exception. Aside from our regular monthly professional programming, we very much supported the greater Chicagoland chemistry enterprise. We continued to host the Chemistry Olympiad competition for high school students, stimulating achievement in future chemistry study. We hosted multiple Chemistry Merit Badge events for Chicago-area Boy Scouts and Girl Scouts of America. We supported two Project SEED projects for disadvantaged high school seniors, enabling them to gain real laboratory experience and college scholarships. We hosted our annual activity booth at the Illinois State Fair, greeting many hundreds of visitors, and presenting a variety of exciting chemistry demonstrations and hands-on activities suitable for young students. Literature was distributed on environmental issues, lists of chemistry educational resources, and ACS activities for students, science teachers, and the general public. We were awarded a ChemLuminary Award for our 2017 participation in Chemists Celebrate Earth Day, in which we took an early lead in the Chicago March for Science and leveraging the ACS Network to coordinate efforts globally.

These achievements aside, 2018 imparted some grief upon our section governance with the untimely passing of our Chair, Anthony Toussaint. Dr. Toussaint left an indelible impression of selfless service on our section, and he is sorely missed. We are very grateful for Ken Fivizzani, who stepped into the Chair role to finish out the 2018 term. I extend a big thanks to our entire Board of Directors, whose many volunteer hours keep our ship afloat and moving forward.

Continuing work that Dr. Toussaint intended for the year, over much of 2018 the Board worked hard to examine and revise the operating bylaws for the section, allowing for improved and streamlined governance. Following those efforts, we will begin 2019 with some much needed strategic planning to ensure that Chicago ACS can best fulfill its long-term mission – to encourage the advancement of the chemical sciences and their practitioners. Our sincere hope is that in doing so we will be even better situated to partner with local industrial and academic institutions to support the Chicagoland chemistry community and to develop a culture that gives back to our young chemistry students, while promoting diversity, inclusion, safety, and ethics in all we do. I am grateful for the immense encouragement shown thus far by our Board in supporting these efforts.

Please consider attending one of our events this upcoming year. They provide excellent networking opportunities and exposure to a vibrant Chicago chemistry community. Also consider joining one of our many committees, whose work includes educational outreach at all levels, promotion of diversity, interaction with government officials, implementation of technology to promote chemistry, community activities and more.

None of our work could be possible without the energy of our volunteers and willingness of our partner organizations, and fresh ideas are always most welcome. I highly encourage you to contact me directly at tmarin@ben.edu if you would like us to work with you or even have your institution host a monthly meeting.

Tim Marin

2019 BOARD AND COMMITTEE CHAIRS

2018 Board and Committee Chairs

Chair Chair-Elect Past Chair Vice Chair Secretary Treasurer **Directors**

Tim Marin Paul Brandt Ken Fivizzani Josh Kurutz Rebecca Weiner Amber Arzadon Aleks Baranczak **David Crumrine** Doris Espiritu Fran Kravitz Margy Levenberg Milt Levenberg Carmen Marquez **Barb Moriarty**

Oluseye (Kenny) Onajole

Sherri Rukes Rebecca Sanders Margaret Schott Andrea Twiss-Brooks Linghong Zhang

Councilors

Barb Moriarty Charles Cannon **David Crumrine** Fran Kravitz Inessa Miller Ken Fivizzani Margy Levenberg Milt Levenberg Russ Johnson Susan Shih

Ken Fivizzani

Inessa Miller

Herb Golinkin

Barbara Moriarty

Annual Report Awards **Budget Director** By Laws Chemical Bulletin Business Manager Chemical Bulletin Editor College Education

Communication & Technology Community Activities

Comptroller Assistant Comptroller Development Distinguished Service Award **Employment & Professional Relations** Environmental & Lab Safety Gibbs Arrangements Great Lakes Regional Meeting 2019 Great Lakes Regional Meeting (General) **High School Education**

Historian Hospitality House Illinois State Fair

Long Range Planning Membership Minority Affairs **National Affairs Nominations**

Fran Kravitz Russ Johnson TBD Paul Brandt Bob Chapman Bernard Santarsiero Josh Kurutz Avrom Litin Raj Govindarajan

Ken Fivizzani Fran Kravitz Irene Cesa Margy Levenberg Barbara Moriarty Susan Shih Russ Kohnken Sherri Rukes Josh Kurutz Richard Cornell Simonida Grubjesic Fran Kravitz Milt Levenberg Susan Shih

Charles Cannon Fran Kravitz

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(continued from page 3)

Office Affairs Policy Primary Education

Program Committee Project SEED Public Affairs Public Relations

Senior Chemists

Stieglitz Lecture Trustees

Women Chemists Younger Chemists Susan Shih Ken Fivizzani Amber Arzadon Fran Kravitz Andrea Twiss-Brooks Raelynn Miller Mike Koehler Russ Johnson Bill Hayward Charles Cannon Louis DeFillipo Josh Kurutz Ken Fivizzani Mark Kaiser Milt Levenberg Rebecca Weiner

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STATIS

"I'M ATTEMPTING TO TRANSMUTE CALCIUM OXIDE, COPPER GLUCONATE, MANGANESE SULFATE, TYROSINE AND BENZALDEHYDE INTO CONDENSED SOUP."

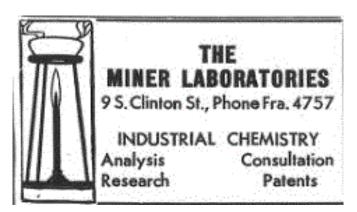
It's fun to enjoy Sidney Harris's cartoons at their most basic level. But Harris's cartoons typically include several levels of humor that are particularly relished by "insiders." Regarding the chemicals mentioned in this cartoon, Harris "think[s] these actually are from canned soup. Maybe more than one. Generally I make up names that I don't even know exist. Once I had an equation in a cartoon for the *New Yorker*, and they wanted me to assure them that it was gibberish. If it wasn't, they said they'd get a lot of angry and critical mail."

-- Jeffrey I. Seeman, University of Richmond

CORRECTION

In the October 2018 Bulletin I published an article on Rubber Stamps. I had stated that this stamp was absent and presumed to be used after 1960 and to be the work of James A. Wuellner. However, Dolores Kenney pointed out that this was published as a logo for the Miner Labs. Lo and behold I did find it in the early Bulletin days. Carl S. Miner used it in his business card ads that were in the Bulletin from November 1920 - December 1939, Volumes 7-26. After that, Miner continued to publish ads, but the logo disappeared from the ad. One of his ads is shown here. Thank you Dolores for that catch!

Paul Brandt





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SOMEONE YOU SHOULD KNOW

This month, I switch gears to accommodate a very special person, **Claude Lucchesi**. I have known Claude for as many years as I have been a member in the Chicago Section. I decided to write about Claude after I received an email from his wife Ruth. She wanted the Section to know that Claude was diagnosed with frontotemporal dementia a couple of years earlier and she needed my help in piecing together his service with the ACS. How could I say no? I began thinking about how it would be nice to have Claude as one of my subjects for my "Someone You Should Know" article. Dr. Lucchesi was chair of the Chicago Section in 1977-1978 and was a Councilor for the Section from 1974 until 2009. Claude is a soft-spoken man, but I remember that he always got his point across at a Board meeting. Sadly, Claude passed away on October 25 but I was lucky and got to see him a few weeks earlier before his death. Claude was still his charming self with his strong distinctive voice. Josh Kurutz and I went to visit him and brought a poster with photos of all his friends from the Chicago Section. He was so glad to see us and the photos delighted him. We spent time reminiscing about old friends. This will be the memory I will hold of him in my heart, old friends just getting together.

Claude was born in Chicago and the eldest of three children. His parents, Nello and Anna Bellizia Lucchesi owned a grocery store. Claude and his two younger brothers helped in the family business. He graduated from Waller High School in 1947 and attended the University of Illinois first at Navy Pier and then in Champaign/Urbana. Claude received his B.S. in Chemistry with a minor in Chemical Engineering. He went on to Northwestern University to earn his Ph.D. in 1954. His dissertation was titled" Study of Chelating Agents for the Determination of Boric Acid in Aqueous Solution" under Donald D. DeFord.

Dr. Lucchesi lead a very full career as a chemist. He began his career in 1954 with the Shell Oil Company in Houston, Texas as a group leader in spectroscopy. In 1956, he returned to the Chicago area to work for Sherwin-Williams as the Director of the Analytical Research Department. Claude left Chicago again to join Exxon Mobil in Metuchen, New Jersey where he started as Manager of the Analytical & Physical Chemistry Department but was later promoted to Manager of the Chemical Coatings Laboratory. In . 1968, he joined Northwestern University as Director of the Analytical Services Lab for the Chemistry Department. He established an analytical instrumentation laboratory and directed five professionals. He consulted for the research faculty and industrial clients and taught courses in advanced lab practices. He remained at Northwestern University until 1996. Claude was a doer and in 1980 he co-founded the Analytical Laboratory Managers Associations (ALMA). ALMA is an association of laboratory managers that provides a forum for improving laboratory management skills worldwide through conferences, short courses, networks and discussion groups. He was the contributing editor for Analytical Chemistry from 1974 through 1979. In 1991 he presented "Managing the Chemical Analysis Support Laboratory" workshops throughout the U.S, Australia, Africa, China, Europe, India and South America. Claude also founded a guarterly journal, Managing the Modern Laboratory in 1995 and was its first editor.

Claude joined the ACS in 1951 and was active at both the local and national level. Locally, he served as Program Chair from 1960 to 1961 and again in 1970 to 1971. He was a director and a trustee for the Section along with holding positions as Continuing Education Chair, Long Range Planning Committee Chair and Great Lakes Regional Meeting Chair. At the national level, Claude served on the Committee on Chemistry and Public Affairs, the Committee on Constitution and Bylaws, the Committee on International Activities, the Committee on Meetings and Expositions, the Professional Relations Committee and the Senior Chemists Committee. His honors included ALMA Award for Distinguished Service to Laboratory Management, Sigma Xi, Phi Lambda Upsilon Society for Applied Spectroscopy Distinguished Service Award, Analytical Laboratory Managers Association Service Award and the Chicago Association of Technological Societies Award of Merit. I was very surprised to learn that he never earned the Chicago Section Distinguished Service Award.

Dr. Lucchesi was married for 64 years to his beautiful wife, Ruth. They had two sons, Nello Williams and K. Gregory. Claude spent time studying the Italian language and traveling throughout Italy, especially Tuscany. He loved music and theater. Claude enjoyed hosting many Northwestern foreign graduate students and visiting scholars at his home. His wife tells me that he read the Wall Street Journal daily, woke up listening to NPR, and settled down at the end of the day to PBS programs on the TV. Claude was also a proud grandfather.

I never got the chance to ask him questions for this article, but his wife Ruth filled me in along with material in the ACS vault and his LinkedIn page. It is regretful that we will never be able to hear his final words of wisdom to our members but what I see is a man dedicated to his love of chemistry, family and friends.

RUBBER STAMPS - 5



As stated back in the March, 2018 Chemical Bulletin,I was given a plaque with five rubber stamps that were used in the Bulletin back in the 50's. Over the course of the year I have shared these stamps with you and given as much history on them as I could. Until recently I believed that all of these were the work of James A. Wuellner of Standard Oil Co. He was the Assistant Editor of the Chemical Bulletin in 1955. This particular sketch I found in the January 1950 edition and is the earliest of the bunch. It can be seen in its original format by using the Northwestern University Library http://books.northwestern.edu/viewer. html?id=inu:inu-mntb-0005391474-bk. This image is item #12356 - pg 13 of the January issue.

The stamp can be found within the article entitled "The Artists Retort" which was a response by a chemists' art friends. The Bulletin in the day had a running article called "What Chemists Think". The question posed in the November issue was "What do you think of modern art?" which can be found on item #12270 from the link above. The chemists were none too kind to the artists. Dali in particular was criticized. To counter in The Artists Retort, they replied to the chemists. A number of the artists tried explaining modern art to the chemists while others found the chemists to be "pinheads". One artist did suggest that modern artists were just taking a shortcut. Nonetheless, the opening paragraph says that We are very pleased to have a concrete suggestion on the chemist and art from Harry N. Holmes, former ACS president who is also an artist." So if I read this correctly, this stamp is the work of this former ACS president, Harry N. Holmes who was also a professor of chemistry at Oberlin College from 1914-1945. It was in this article that Holmes proposed an art showing at the 118th ACS National Meeting in Chicago. These art shows continued on in these ACS meetings as mentioned in the May, 2018 issue entitled Rubber Stamps-3.

HIGHLIGHTS OF THE DECEMBER MEETING

Festivity reigned at the December meeting of the Chicago ACS, featuring Dr. Dick Co and his talk "Solar Fuels: Turning Thin Air Into Gasoline" Dec. 15 at North Central College (Naperville, IL). Attendees got a healthy infusion of solid science, a lesson on the difference between advanced technology and innovation, concrete examples of effective and engaging science education, plus cheery lota Sigma Pi activities, gifts and prizes, holiday cheer, photo albums of Chicago Section years past, and even Santa hats. The full photo gallery is now available here: https://chicagoacs.starchapter.com/gallery.php?id=75

Dr. Co covered a variety of solar-themed subjects, starting by surveying the field of solar energy, which transforms sunlight into electricity. He stressed how technical advances have enabled reductions in cost and complexity that ensure this technology will play a major role supplying electricity well into the future. Then he covered other, newer uses for solar devices. For instance, he showed exotic slabs of solid state materials that use sunlight to split water directly into hydrogen and oxygen gases without using external electricity-powered devices. Co's own specialty is using light-absorbing materials to produce liquid hydrocarbon fuel from captured CO₂. This remarkable process accomplishes two major aims: 1) creating liquid fuel, which is very energy-dense and compatible with current combustion technology, and 2) removing CO₂ from the atmosphere. As an entertaining aside, he mentioned The Air Company, which transforms captured CO₂ into ethanol; they sell top-shelf vodka made from the product. To dive into the technical details, you should watch the video of his talk, which is embedded on our event page: https://chicagoacs.org/meetinginfo.php?id=136

Dr. Co proved to be an engaging speaker in other ways, too. He led the talk showing photos of his wedding in which all family members on both sides are chemists. After quoting Maya Angelou's thoughts on "doing better," he discussed the importance he places on educating young people about chemistry and climate change. He believes that youth will push for a better future if they're educated about climate change AND inspired to develop technical solutions once they see some in action. To help, he and our September 2017 speaker Sameer Patwardhan have engineered robust devices for middle and high school classrooms in which electricity is generated using everyday materials. Using one kit, students build a dye-sensitized solar cell using (light-absorbing) blackberries, then power an LED using their device. Using another kit, they power an LED by placing slices of fruit atop pairs of bolts made of different metals. In the talk, Co announced he is leaving Northwestern to partner with Patwardhan in a new venture, PC Consulting, that consults on solar energy matters and sells their educational kits. After the talk, the team sold a number of kits on the meeting floor, using Square devices on their phones to conduct sales transactions.

Aside from the talk, attendees enjoyed a number of other activities.

- Holiday spirits were raised by the wearing of santa hats provided around the room.
- Our partner the Aurum Iodide chapter of Iota Sigma Pi, the women chemists honor society, showed up in strong numbers, per annual tradition. They joined ACS in giving door prizes (USB bracelets), and also raised money by raffling four beautiful chemistry-themed wooden cutting boards; each depicts a different food-related molecule (sucrose, cholesterol, aspartame, and Vitamin C).
- In a brief ceremony, Section Chair Ken Fivizzani, who took over after Tony Toussaint's untimely death in June, presented an engraved gavel to incoming Chair Tim Marin, professor at Benedictine University (chair@chicagoacs.org). In return, Marin presented Fivizzani with his Past Chair lapel pin. Remarkably, this is Fivizzani's THIRD Past Chair pin he is the only person in Chicago ACS history to receive that many.
- Your section historian (historian @ chicagoacs.org) showcased a number of photo albums from the archives. Not only did attendees enjoy reminiscing, but several helped out by recording the identities of previously unidentified subjects! Thanks to everyone who helped!
- Dinner was well-received; comments about dinner and offers to assist planning future events can be directed to the organizers at eventsupport@chicagoacs.org.
- Hospitality Chair Richard Cornell sparked interest with his customary curious door prizes for everyone; this author received a container of Tide pods, and bearded Dr. Co won a fine Harry's razor.

Thanks go to

- Dr. Co, who stepped up with a great presentation on short notice after Dr. Chasar became unable to travel to us.
- NCC Prof. Paul Brandt, who hosted the meeting.
- · Ken Fivizzani, who chaired the meeting.
- Janet Ferroni, Teresa Bixby and Tonya Hunter who emceed lota Sigma Pi's activities.
- Andrea Twiss-Brooks, our Program chair (program@chicagoacs.org), who is responsible for securing our meeting speakers and facilitating publicity.
- Simonida Grubjesic, our House chair (eventsupport@chicagoacs.org), who secures event locations and arranges for dinner and other needs.



Solar fuels expert Dr. Dick Co, transitioning between Northwestern U. and his own firm PC Consulting, introduces his talk. (photo by Josh Kurutz)



Section Chair Ken Fivizzani leads his final Chicago Section meeting. (photo by Josh Kurutz)



Benedictine Prof. Tim Marin receives his chair's gavel from outgoing Chair Ken Fivizzani, marking Marin's transition from Chair-Elect to Section Chair. (photo by Josh Kurutz)



lota Sigma Pi, the women chemists' honor society, turned out in force, gave away USB drive bracelets from GLRM, and raffled off four gorgeous chemistry-themed wooden cutting boards (one depicted at the right). L->R, Top Row: Janet Ferroni, Deb Howell, Vivian Sullivan; Bottom row: Gayle Chany, Julia Wiester, Teresa Bixby. (photo by Josh Kurutz)



2019 Section Chair Tim Marin and Section Historian Josh Kurutz. (photo by Milt Levenberg)



E-commerce took place on the floor after the talk. In the foreground here, Dr. Co sells a classroom kit for making solar cells using blackberries, taking payment with a Square device. In the background, his partner (and Sept. 2017 speaker) Sameer Patwardhan sells a "fruit battery" kit. (photo by Josh Kurutz)

WHO IS THIS? - 1995 TELETHON

Back in 1995, a group from Chicago ACS helped raise funds in a telethon. This looks like it was fun, but the pile of photos in the archives contains little information. If you know anything about this outing, please write to historian@chicagoacs.org.

Clues:

- The phone number and setting suggest this was a WTTW fundraiser. A Google search of the number shows it now applies to a specific Subway restaurant, so please don't call them. Also, please don't call the 773 version it appears to belong to an individual who is probably tired of odd calls for a telethon. However, it does look like the 773 number was used by WTTW.
- tel-B is Charles Cannon.
- tel-F looks like Larry Berman.
- tel-J may be Ellis Fields.

We'd like to hear from anyone who participated in this event. What was it like? Was it for WTTW or a different organization? Who organized it? Where was it? Any idea what month/day? Please send any information to historian@chicagoacs.org. You can review larger photos online in the gallery: https://chicagoacs.starchapter.com/gallery.php?id=76.

NEWS: The Who Is This? project now has its own web page, https://chicagoacs.org/WhoIsThis. Here you'll find an organized showcase of photo galleries featured here in the Bulletin, plus articles describing what is known about the events depicted. Each photo bears a caption updated with insights contributed from everyone who's written to the Historian. Check it out!

Thanks in advance for your help!

ACKNOWLEDGEMENTS: For their help in December, thanks go to Keith Meyer (Kraft, retired), Russ Johnson (ACS Fellow, Honeywell, retired), Dolores Kenney* (Olson & Cepuritis, Ltd.), Milt and Margy Levenberg (retired from Abbott and Stepan, respectively), Veronica Reichert, Judy and Russ Reuter, Lee Marek (UIC), Avrom Litin.

*ERRATUM: In the December issue, we indicated Dolores Kenney was retired from Gillette. Though she no longer works at Gillette, she is not retired, but currently works for the law firm of Olson and Cepuritis, Ltd. We apologize for the error.

Josh Kurutz, Section Historian



CALFNDAR

January 10: Chicago ACS Section **Board Meeting**

January 25: Chicago ACS Section Dinner Meeting. Dr. Andrew Lee, Northwestern University College of Engineering

January 29: The Annual IIT Bridge Competition at IIT's Main Campus (Herman Hall). You can find information on the Bridge Competition at http://bridge- contest.phys.iit.edu/public/chicago/ index

Chicago ACS Section February 7: **Board Meeting**

February 10: Family Open House at the Lederman Science Center from 1-5 pm. Children must be accompanied by an adult (There's plenty for the grownups too). Most appropriate for children in grades 3 and up. http://ed.fnal.gov/ events/openhouse/

February 22: Chicago ACS Section Dinner Meeting.

February 22: Spring 2019 Chicago Symposium Series on Excellence in Teaching Mathematics and Science: Research and Practice at Northern Illinois University - Naperville from 11 am to 6 pm. https://www.math.uic.edu/chicagosymposium/index html

February 23: DuPage Area STEM Expo at the Illinois Institute of Technology -Rice Campus at 201 East Loop Drive, Wheaton (10:30 - 3:30) "Engineering New Horizons." https://appliedtech.iit. edu/stemexpo

March 14: Chicago ACS Section Board Meeting

March 17 - 21: Pittcon 2018 will be in Philadelphia, PA. http://pittcon.org/

March 21: Chicago ACS Section Dinner Meeting.

March 22: Spring 2019 Chicago Symposium Series on Excellence in Teaching Mathematics and Science: Research and Practice at Loyola University from 10 am to 5 pm. https://www.math.uic. edu/chicagosymposium/index_html

March 31 - April 4: 255th American Chemical Society National Meeting and Exposition "Chemistry for New Frontiers", https://www.acs.org/ Orlando, FL. content/acs/en/meetings/nationalmeeting.html

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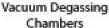
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