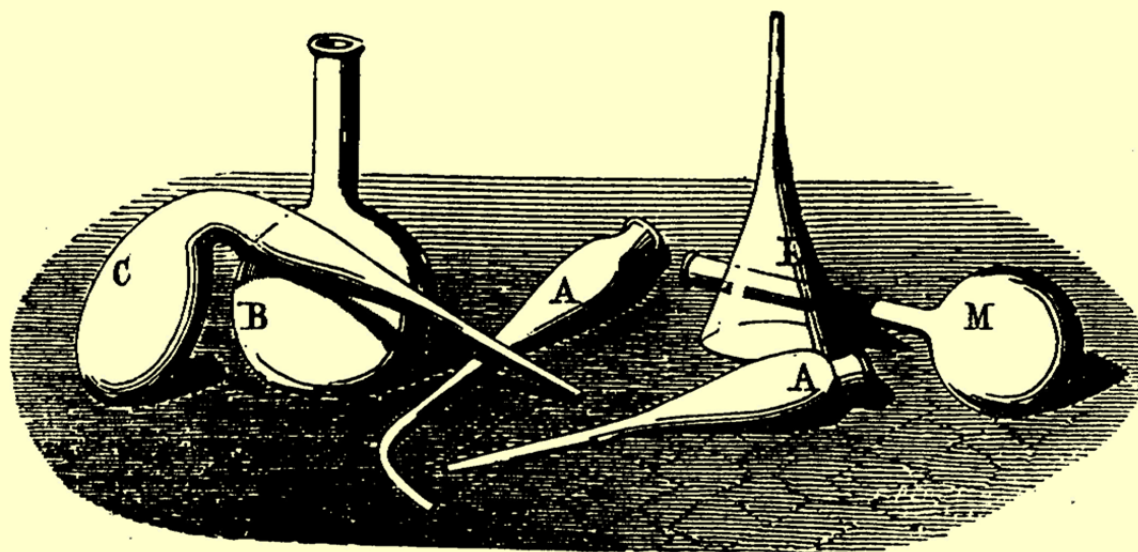




ACS
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American Chemical Society
DIVISION OF THE
HISTORY OF CHEMISTRY



NEWSLETTER

249th ACS National Meeting
Denver, CO
March 22-26, 2015

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Mission Statement

The Division of the History of Chemistry ([HIST](http://www.scs.uiuc.edu/~mainzv/HIST/) - <http://www.scs.uiuc.edu/~mainzv/HIST/>) of the American Chemical Society (ACS) seeks to advance knowledge and appreciation of the history of the chemical sciences among chemists, students, historians of science, and the broader public by

- Encouraging research and scholarship in history of the chemical sciences;
- Providing a welcoming environment for the discussion of history of chemistry in a variety of venues, particularly in symposia at national ACS meetings;
- Serving as a resource for chemical scientists in general, and members of the ACS in particular, who seek to understand the roots of their discipline, sub-discipline, or interdisciplinary subject;
- Recognizing major achievements from the past in the chemical sciences and the individuals who made those achievements;
- Publishing a scholarly journal in history of chemistry;
- Interacting with other organizations interested in the history of science; and
- Adding value to the ACS by helping it achieve its vision and missions.

Division Governance

Message from the HIST Division Chair

This promises to be an interesting year for HIST. We are blessed by many new members, often due to the generosity of Mary Virginia Orna and her author team for *The Lost Elements*. I would encourage all of you to experience the joy of attending HIST sessions at National Meetings like Denver and Boston.

While HIST is one of the smaller Divisions of the ACS, it occupies a place at the center of the mission and vision of Chemistry. Every other Division has a history! One of the goals for 2015 is to increase the visibility of HIST within ACS. I am meeting with Chairs of many other Divisions this year.

While HIST is a Division of the ACS, it is quite visible within the worldwide community of historians of Chemistry. One of my goals for 2015 is to continue the active networking with organizations such as the History of Science Society, The Society for the History of Alchemy and Chemistry, The European Working Group in the History of Chemistry, The Chemical Heritage Foundation, etc. The year concludes with the Pacificchem Meeting in Hawaii (my home). Representatives from many Pacific Rim countries will present the history of chemistry in their countries as a HIST symposium. Thanks are in order for the great work of Seth Rasmussen in promoting this event.

One of the joys of being Chair is working with the HIST Executive Committee. First, thanks and praise are due to Ned Heindel for his patient and careful guidance for the last two years. We welcome Ron Brashear from the Chemical Heritage Foundation as the new Chair-elect and Daniel Rabinowitz as a new member of the Executive Committee. The “soul” of the Division continues to be our Secretary/Treasurer, Vera Mainz.

The scholarly publication of HIST is the *Bulletin for the History of Chemistry*. It has a long history and is now well-recognized in the worldwide community. I encourage you to read it, to absorb it, and to submit your best work to it. With the outstanding community of historians currently at work, the *Bulletin* can only get better. Thanks to Carmen Giunta and his team.

HIST is a welcoming community of “cranks” who love the history of chemistry. There are many opportunities to serve within this group. Please get to know the leaders and other members of HIST. They will make your day!

Gary Patterson, HIST Chair



Report of Councilors, Division of the History of Chemistry

248th ACS National Meeting – San Francisco, CA; August 13, 2014

Election Results

The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the **Committee on Committees** beginning in 2015: Spiro D. Alexandratos, Mark A. Benvenuto, Mitchell R.M. Bruce, Judith N. Currano, Jetty L. Duffy-Matzner, Kath-leen Gibboney, Helen A. (Bonnie) Lawlor, Zaida Morales-Martinez, Robert A. Pribush, and Patricia A. Redden. By electronic ballot, the Council elected **Mitchell R.M. Bruce, Judith N. Currano, Helen A. (Bonnie) Lawlor, Zaida Morales-Martinez, and Robert A. Pribush** for the 2015-2017 term.

The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the **Council Policy Committee** beginning in 2015: Lawrence Barton, Dwight W. Chasar, Lynne P. Greenblatt, Martha G. Hollomon, Peter C. Jurs, Pamela D. Kistler, Doris I. Lewis, Christopher Masi, Andrea Twiss-Brooks, and Linette M. Watkins. By electronic ballot, the Council elected **Lawrence Barton, Lynne P. Greenblatt, Peter C. Jurs, and Linette M. Watkins**, for the 2015-2017 term, and **Andrea Twiss-Brooks** for the remainder of a 2014-2016 term.

The Council Policy Committee presented to the Council the following slate of candidates for membership on the **Committee on Nominations and Elections** beginning in 2015: Anthony W. Addison, John W. Finley, Lydia E.M. Hines, Roland F. Hirsch, Robert L. Lichter, Mamie W. Moy, Anne T. O'Brien, Eleanor D. Siebert, Herbert B. Silber, and Ralph A. Wheeler. By electronic ballot, the Council elected **Lydia E.M. Hines, Robert L. Lichter, Mamie W. Moy, Anne T. O'Brien, and Eleanor D. Siebert** for the 2015-2017 term.

Reports of Elected Committees

Nominations and Elections (N&E)

N&E announced the candidates for the fall 2014 ACS national election as follows:

Candidates for President-Elect, 2015

- Peter K. Dorhout, Dean of Arts & Sciences and Professor of Chemistry, Kansas State University, Manhattan, KS

- William A. Lester, Jr., Professor of the Graduate School, Department of Chemistry, University of California, Berkeley, CA
- Donna J. Nelson, Professor, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK

Candidates for Directors-at-Large, 2015-2017

- Dawn A. Brooks, Sr. Director, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN
- William F. Carroll, Jr., Vice-President, Occidental Chemical Corporation, Dallas, TX
- Barbara A. Sawrey, Associate Vice Chancellor, Academic Affairs, and Dean of Undergraduate Education, University of California, San Diego, La Jolla, CA
- Ellen B. Stechel, Deputy Director, ASU-LightWorks, Tempe, AZ, Arizona State University

Candidates for District III Director, 2015-2017

- Pat N. Confalone, Confalone Consulting, LLC, (Retired DuPont), Wilmington, DE
- Anne S. DeMasi, Hazard Communication Manager, Chemtura Corporation, Philadelphia, PA

Candidates for District VI Director, 2015-2017

- Paul W. Jagodzinski, Dean, College of Engineering, Forestry & Natural Sciences, Northern Arizona University, Flagstaff, AZ
- Lee H. Latimer, Consultant, Oakland, CA

Committees (ConC)

On the recommendation of ConC, Council **VOTED** to continue the Committee on Patents and Related Matters, subject to concurrence by the Board of Directors; and to continue the Committee on Technician Affairs.

Council Policy (CPC)

CPC announced that the recommendations of its Task Force to Review the Councilor Reimbursement Policy, approved in March 2014, were forwarded to the Society Committee on Budget and Finance and ultimately will go to the Board for action.

At the spring meeting in 2015, CPC will set the divisor for 2016-2019. The formula will be based on membership numbers as of December 31, 2014. Official notification of the Councilor divisor and the number of Councilors permitted for Local Sections or Divisions will be sent to Local Sections and Divisions no later than May 1, 2015, as it will affect elections conducted in 2015. CPC will form a small task force on Councilor Divisor Communications to assist staff.

Reports of Society Committees and Committee on Science (Highlights)

Budget and Finance (B&F)

B&F reviewed the Society's 2014 probable year-end financial projection which calls for a Net Contribution from operations of \$14.4 million, or \$752,000 higher than the Approved Budget. Total revenues are projected at \$497.2 million. This is \$1.1 million or 0.2% unfavorable to the Approved Budget. The projected shortfall is primarily driven by lower-than-budgeted Electronic Services, Registration Fees, and Advertising revenues. Total expenses are projected at \$482.8 million, which is \$1.9 million or 0.4% favorable to the Approved Budget. This variance is the result of lower-than-budgeted expenses across multiple categories primarily in the Society's information services divisions (CAS and Publications). The Probable 1 projection was developed using May 31 actual financial results. Based on more recent information through July, management believes this projection will be exceeded.

Education (SOCED)

SOCED received an update on the new American Association of Chemistry Teachers (AACT), which is now accepting members and will officially launch September 2, 2014. AACT member benefits include access to curricular resources, such as lesson plans and multimedia; professional development opportunities; a subscription to ChemMatters; and an online member network. SOCED voted to approve revisions to the current policy statements on hands-on laboratory science, science and technology funding, and visa restrictions. The statements will go to the Board of Directors for approval at its December meeting.

Science (ComSci)

ComSci remains focused on three areas: increasing understanding of the emerging frontiers in science, recommending eminent chemical scientists for prestigious external awards, and developing public policies to advance science in society. ComSci has identified two multidisciplinary areas that hold great promise for fostering innovation and opportunities for chemistry-related scientists: advanced materials and the chemistry of clean and renewable energy. ComSci has also completed four on-demand video interviews with Nobel Laureates and other celebrated scientists, which will be linked with the onsite emerging science forums in 2015.

Reports of Standing Committees (Highlights)

Economic and Professional Affairs (CEPA)

CEPA announced that the unemployment rate for all ACS chemists has dropped from 3.5% in March 2013 to 2.9% as of March 2014. However, the unemployment rate for new chemistry graduates as of August 2013 is considered to be an all-time high of 14.6%. The number is higher when we isolate bachelor's level graduates, for whom the rate is 15.8%.

On the recommendation of CEPA, Council **VOTED** to approve the Professional Employment Guidelines.

Committee on Meetings and Expositions (M&E)

M&E reported that 11,847 papers were accepted for the 248th National Meeting in San Francisco. As of August 13, total attendance was 15,761. The Exposition had 432 booths with 285 exhibiting companies. The Committee voted to recommend to the Board of Directors the following sites for National Meetings:

- Boston – Fall 2024, 2029, 2031
- San Diego – Spring 2025, 2031, and Fall 2027
- New Orleans – Spring 2027, 2032
- Chicago – Fall 2022

The Committee heard an update on the Meeting Abstracts Programming System (MAPS). The new system will launch August 25 in preparation for the Denver National Meeting. Regional Meetings and specialty conferences will use MAPS starting in January 2015.

M&E has voted to strengthen the current recording policy at National Meetings by including enforcement language. Failure to follow the policy could result in disciplinary action up to and including expulsion from the meeting.

Divisional Activities (DAC)

DAC is conducting a pilot program with the ACS Presentations on Demand Coordinating Editor regarding a new type of recorded meeting content – three to five-minute videos (ACS POD Shorts) that focus on the most notable aspects of a full-length presentation. DAC voted to fund eight Innovative Project Grants, totaling \$33,750. DAC is also developing a process to more readily permit divisions to benefit from one another's innovations.

The Multidisciplinary Program Planning Group is proposing the following 2018-2019 national meeting themes to the divisions for their consideration:

2018

Spring – Energy Solutions and the Environment
Fall – Chemistry – from Bench to Market

2019

Spring – Chemistry for New Frontiers

Committee on Local Section Activities (LSAC)

LSAC will award 14 Innovative Project Grants (IPG) totaling \$30,033, bringing the 2014 total to 33 IPG awards totaling over \$70,000. LSAC will also be offering grants during the fall to assist local sections with hosting a strategic planning retreat; a Leadership Development System course in their section, and to assist with travel to the 2015 ACS Leadership Institute. National Chemistry Week will be held October 19-25 with the theme, "The Sweet Side of Chemistry: Candy".

On the recommendation of LSAC, the Council **VOTED** to dissolve the Ocean County Local Section due to inactivity.

Membership Affairs (MAC)

MAC reported that as of June 30, the total ACS membership was 158,869, a net increase of 512 since May of this year. The number of international members has grown this year by 312, to almost 25,000. The number of current, unpaid members declined in June and is 13% lower than June 2013. As of July 1, automatic renewal (on credit card) became available. The Committee also

voted to extend its current test of an introductory membership offer to those who join the Society at non-ACS conferences and events to include the graduate students and potential Regular Members who attend ACS on Campus events worldwide each year.

Constitution and Bylaws (C&B)

C&B certified bylaws for 10 local sections, one division, and two International Chemical Sciences Chapters since January 1, 2014. C&B has been modified the model bylaws for local sections, divisions, and International Chemical Sciences Chapters. The Committees on Local Section Activities, Divisional Activities, and International Activities, respectively, will be asked to review the changes and approve them no later than their Denver (2015) meetings.

Reports of Other Committees (Highlights)

Chemistry and Public Affairs (CCPA)

To celebrate four decades of ACS public policy fellowships, more than 20 former fellows gathered in San Francisco, six of whom spoke about their experiences at a symposium sponsored by CCPA and the Division of Professional Relations. The deadline to apply for the 2015-2016 fellowships is December 31, 2014. More information can be found at www.acs.org/policyfellow.

Environmental Improvement (CEI)

CEI reported on the outstanding programming that was offered at the San Francisco meeting relating to Chemistry and Global Stewardship. The Committee also assisted the Division of Environmental Chemistry in the observance of their centennial. CEI continues to review existing policy statements to keep them fresh and relevant and to explore emerging areas of interest where ACS can offer the expertise of its members.

Ethics (ETHX)

Through its subcommittees, ETHX has strengthened its relationship with the National Center for Professional & Research Ethics, which is tied to the Education and Materials Subcommittee action plan to develop resource materials, and is committed to producing a twice-yearly newsletter to showcase current Ethics Committee endeavors. It is seeking

to co-sponsor or help embed ethics related content and/or dialog into presentations and symposia.

International Activities (IAC)

At the San Francisco meeting, IAC organized or sponsored seven symposia, convened four soft-skills training sessions for Brazilian young scholars studying in the U.S.A., conducted an experimental networking event for Chinese chemists and allied practitioners, and initiated a ‘soft launch’ of the ACS International Chemical Sciences Chapter in South Korea.

On the recommendation of IAC, Council **VOTED** to approve the establishment of an International Chemical Sciences Chapter in South Africa. This action requires Board action, too.

Professional Training (CPT)

At this meeting, CPT evaluated 42 periodic reports from currently approved programs, two from programs on probationary status, and one site visit report from a school applying for ACS approval. Four new programs were approved, and one institution was removed from the approved list. The Committee concluded discussion of the guidelines revision and voted provisional approval of the draft document. The draft will be distributed to department chairs of chemistry programs this fall. CPT also approved the final report of a survey on chemical information resources that will be published in the Committee newsletter and website.

Project SEED

This year, the Committee awarded 28 Project SEED College Scholarships to 17 female and 11 male alumni from 16 states and Puerto Rico. The Committee also reviewed key issues that impact Project SEED: issues pertaining to project selection, college scholarship applications, and geographic distribution of the program. To address these impacts, the Committee proposed modifications to the current selection process for research projects, reviewed and approved changes to the Scholarship application, and established a Geographic Expansion Subcommittee. The Committee also established an Ethics Task Force and discussed the implementation of ethics guidelines for Project SEED students as a requirement for all programs.

Public Relations and Communications (CPRC)

The Chemistry Ambassadors observes its fifth anniversary. There are currently more than 10,000 Ambassadors. At this meeting, CPRC launched “ChemChamps,” an outreach effort still in the pilot stage, as part of the Ambassadors program. Five of our younger members each gave a 3-minute explanation of their research in a way that would engage non-scientists. It appears to be a great follow up to the encouragement given by Alan Alda at an open Board meeting last year to go forth and make chemistry relevant to the public. CPRC now has new mission statement: “CPRC supports the ACS goal of improving public understanding and appreciation of chemistry’s contributions to people’s lives.”

Senior Chemists (SCC)

SCC has approved 22 mini-grants of \$300 each to encourage and support the organization of senior groups at the local section level. The SCC newsletter now has the highest “open” rate of all newsletters published by the Society. The Committee co-organized a very successful day-long symposium, “Innovation in International Collaboration,” with the Committee on International Activities and the Division of Professional Relations.

Technician Affairs (CTA)

CTA observed its 50th Anniversary at this meeting with a symposium, “The Role of the Chemical Technician Through the Decades,” cosponsored with the Division of Industrial and Engineering Chemistry and the Division of the History of Chemistry. CTA also presented three different awards: a Salute to Excellence at the ACS Diversity reception, two K. Michael Shea awards at the CTA anniversary dinner, and the first CTA Chemluminary to the Brazosport Local Section.

Women Chemists (WCC)

WCC sponsored two full-day symposia, “Mom, the Chemistry Professor,” and “Women Leaders of the Global Chemistry Enterprise.” The Committee recognized 10 WCC/Eli Lilly Travel awardees, and the 2014 Overcoming Challenges Award recipient.

The Committee recognized 10 WCC/Eli Lilly Travel Grant Recipients, and the 2014 Overcoming Challenges Award winner. The Committee also acknowledged the Puget Sound Local Section, recipient of the Chemluminary Award for

Outstanding Program Aimed at Retaining Women in the Chemical Sciences.

Younger Chemists (YCC)

YCC continues to identify new opportunities for leveraging their social media following (Twitter, Facebook, LinkedIn, and Vine). The Committee has developed partnerships with the ACS Office of Public Affairs to help promote the #Chem-Champs program and the highly successful joint effort “Program in a Box” with ACS Webinars. YCC has secured funding for two “Program in a Box” events for 2015. At this meeting, YCC sponsored the

Activities of HIST Councilors

Mary Virginia Orna – continues to serve as an Associate Member of the Local Sections Activities Committee (LSAC).

Roger Egolf – continues to serve as a member of the Division Activities Committee (DAC) and chairs the Constitution and Bylaws subcommittee of DAC.

Mary Virginia Orna, Roger A. Egolf, Councilors

symposium “Advances in Small Molecule Approaches to HIV.”

Resolutions

The Council passed several resolutions, including one commending Executive Director and CEO Madeleine Jacobs on the occasion of her upcoming retirement.

M&E reported that a total of 15,761 persons attended the San Francisco meeting.

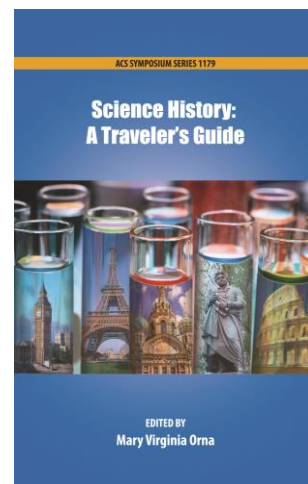
News

Science History: A Traveler’s Guide

The most recent HIST-sponsored volume of the ACS Symposium Series, *Science History: A Traveler’s Guide*, is now currently available. The ACS Symposium Series, which publishes peer-reviewed books developed from the symposia of the various ACS technical divisions, has become a popular venue for the dissemination of historical work presented as part of the HIST programming at ACS National Meetings. Published as ACS Symposium Series Volume 1179, the ebook version of this volume was released in November 2014, with the hardback version to be released sometime in early 2015.

The volume is based on the *Science History Study Tours: Global Perspectives* symposium originally held at the Spring 2009 ACS Meeting in Salt Lake City. Edited by Mary Virginia Orna, the volume includes chapters by a number of the original speakers, including Mary Virginia Orna, David A. Katz, Zvi C. Koren, and Carmen J. Giunta. A number of additional authors from across the globe have then been added to supplement the original speakers, resulting in a total of 16 chapters

and a broad range of cover-ed locations. A full list of the available chapters and the corresponding details can be found at

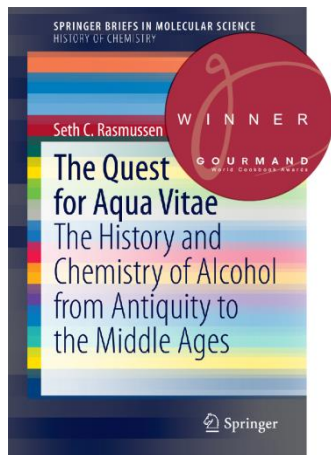


<http://pubs.acs.org/isbn/9780841230200>.

Gourmand Award Recognizes Volume in Springer Briefs in History of Chemistry Series

The Quest for Aqua Vitae, written by Seth C. Rasmussen of North Dakota State University, was selected for a Gourmand Award as the Best Drink

History Book published in Germany during 2014. Published by Springer, this volume is one of the latest entries in the *Springer Briefs in Molecular Science: History of Chemistry* book series. The series was founded in 2011 by Rasmussen (HIST Program Chair) and a number of notable

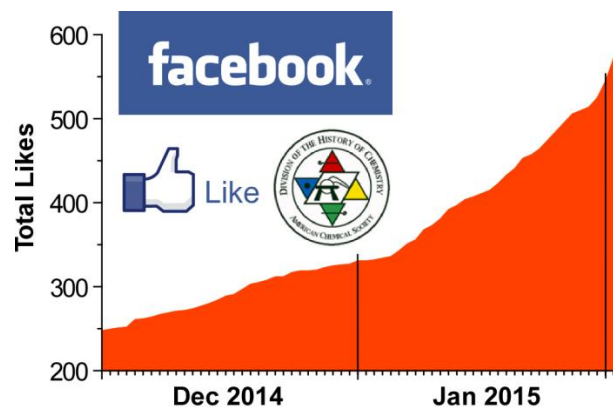


HIST members have contributed volumes to the series. The volume recognized by the award documents the history and chemistry of alcohol from the origins of fermented beverages in pre-history (mead, beer, wine) up through the Middle Ages, when alcohol was first isolated by the distillation of wine. In addition, early chemical and medical applications of alcohol are also discussed.

The Gourmand Awards were founded in 1995 to initially recognize the best cookbooks published in the world. Over time, however, these awards have expanded to include a variety of book categories covering all aspects of food and drink. Books are first awarded according to country of publication, before the final selection of the Gourmand *Best in the World* Award in each category. As the winner for Germany, *The Quest for Aqua Vitae* will go on to compete against 11 other books for the top Drink History Book of 2014. The final selection will be announced in June, 2015.

HIST Popularity Rises Dramatically on Facebook

The community following the HIST Facebook page has more than doubled in the last two months, from just under 250 likes at the beginning of December 2014 to nearly **600 likes** by the end of January 2015 (see plot to the right). As in the past, the majority of those reached via Facebook are still younger people (70% are aged 18-35), with roughly half residing in Egypt, the US, and India. All told, 83% of our followers are from various international communities (45 different countries!) without traditional access to activities of the division.



The HIST Facebook page can be found at <https://www.facebook.com/pages/ACS-Division-of-the-History-of-Chemistry-HIST/152326921497559> or by searching 'HIST' in the Facebook search bar. If you are a Facebook user, please stop by and check out these efforts to share our passion of the subject with the world. Then 'Like' the page to join us and post comments to share the history of chemistry with our growing audience!

HIST-sponsored PACIFICHEM 2015 Symposium Now Accepting Abstracts

The HIST-sponsored symposium for the 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015) is entitled



Historical Evolution of the Chemical Community in the Countries of the Pacific Rim and is organized by HIST officers Seth Rasmussen and Gary Patterson, along with co-organizers Trevor Levere (Canada), Yasu Furukawa (Japan), and Ian David Rae (Australia). The symposium currently has 10 confirmed invited speakers and contributed talks from additional speakers are welcome. Anyone interested in potentially participating in the symposium should contact Seth Rasmussen (seth.rasmussen@ndsu.edu) or Gary Patterson (gp9a@andrew.cmu.edu) for further information.

Pacifichem 2015 will take place in Honolulu, Hawaii, USA, December 15-20, 2015 and additional conference information can be found at <http://www.pacifichem.org>. **The deadline for all abstracts is April 3, 2015.**

10th International Conference on the History of Chemistry

This interdisciplinary conference will be held at the University of Aveiro, Portugal, September 9-12, 2015, with the topic Chemical Biography in the 21st Century (<http://10ichc-2015.web.ua.pt/>). The conference welcomes participants from a range of academic disciplines including history of science and technology, science and technology studies (STS), economic and business history, and the history of material culture and museum studies. We also warmly welcome participants from chemistry and related disciplines with an interest in the history of their discipline.

Biographies—whether in the form of books or articles—have always been an important genre in the history of chemistry. General histories of chemistry have often taken a biographical approach, most notably the four volume work of J. R. Partington. Many chemists, especially in the German-speaking world, have written autobiographies which along with the formal obituaries produced by national academies of science have formed an important source of information for historians of chemistry. More recently the American Chemical Society published the “Profiles, Pathways and Dreams” series which extended the autobiographical form up to the end of the 20th century. For several decades in the latter half of the 20th century, professional historians of chemistry avoided the biographical approach as being inherently too hagiographical and “Whiggish”. However following the pioneering work of scholars in the history of physics the biography has been taken up anew as a framework for analyzing thematic problems and social-cultural questions. This conference will critically examine this conceptual “turn” in the historiography of chemistry and explore ways in which the biographical approach can be fruitfully employed by historians of chemistry.

The conference will embrace all aspects of the history of alchemy and chemistry including the history of materials and the history of biochemistry. Papers which simply present the biography of a chemist will not be accepted, as there must be a line of argument or a historical problematic. Papers might address:

1. Autobiographies as a source for historians of chemistry
2. Biography and discipline building

3. Biographies and nationalism
4. The making and unmaking of chemical heroes
5. Myths and misrepresentation
6. Iconography as a mode of self-representation in the visual arts, sculpture and photography
7. The historiography of the biographical mode
8. Collective biographies including biographical dictionaries and the “biographies” of research groups

Proposals for papers on other topics can be submitted, but preference will be given to papers reflecting the conference theme. Proposals can be made for sessions, standard papers (20 minutes), short papers (10 minutes) and posters. Proposals (abstracts) should be uploaded using EasyChair on the website <http://10ichc-2015.web.ua.pt/> and be a minimum of 150 words and a maximum of 300 words. The session proposals should also contain the abstracts of the proposed papers. **The deadline for all proposals is midnight (Universal Time/GMT) on 31 March 2015.** Further details of the conference, including local arrangements and accommodation, will be found on the website. Please address any queries to the chair of the program committee, Peter Morris, at peter.morris@sciencemuseum.ac.uk.

IUPAC Travel Fellowship

The International Union of Pure and Applied Chemistry (IUPAC) is holding its 48th General Assembly (August 6-13, 2015) and its 45th Congress (August 9-14, 2015) in Busan, South Korea.

The U.S. National Committee for IUPAC is seeking outstanding U.S. scientists and engineers under the age of 45, with interests and expertise related to the working groups of IUPAC, to travel as Young Observers to South Korea. The USNC/IUPAC will provide travel fellowships of \$2500 to successful candidates. This Young Observer Program provides an excellent opportunity to become involved in the work of IUPAC, develop an international network of scientists and engineers, and represent your U.S. colleagues in the chemical sciences. Successful candidates must:

- Be a U.S. scientist or engineer under the age of 45, be active in chemical or chemical engineering research in academia, government, or industry. Applicants must be a U.S. citizen or U.S. Permanent Resident (Green Card Holder).

- Have a specific interest in one or more of the business meetings and technical sessions that will be held in Korea.
- Have a strong interest in collaborative work with scientists in laboratories outside of the United States.
- Have an interest in continuing activities through the IUPAC organization.

Career scientist applicants should ideally have, but are not required to have, five years of independent

research/work experience after the completion of their educational experience. In exceptional cases applications from graduate students and postdoctoral researchers will be considered.

2015 Young Observer Program Application Deadline is February 23, 2015. For more information about the program and to apply, visit <http://ow.ly/GPPqI>. Questions about the program can be directed to BISO@nas.edu.

News from the Chemical Heritage Foundation

The [Chemical Heritage Foundation](#) (CHF) fosters an understanding of chemistry's impact on society. An independent nonprofit organization, we strive to inspire a passion for chemistry, highlight chemistry's role in meeting current social challenges, and preserve the story of chemistry across centuries. CHF maintains major collections of instruments, fine art, photographs, papers, and books. We host conferences and lectures, support research, offer fellowships, and produce educational materials. Our museum and public programs explore subjects ranging from alchemy to nanotechnology.

New Exhibit of Alchemical Art, Documents Opens in Philadelphia

A new exhibit of alchemical art and documents opened December 5 in the Museum at CHF. Books of Secrets: Writing and Reading Alchemy will feature newly acquired 15th-century alchemical manuscripts as well as rarely seen works of art from CHF's extensive alchemical art collection.

"For more than a decade, we have had world-class collections of alchemical books and paintings," said Carsten Reinhardt, president and CEO. "Our new collection of alchemical manuscripts adds a further dimension, making this an exciting new exhibit for experts and casual visitors alike."

Books were central to the alchemical enterprise. Alongside their labor in the lab, alchemists worked hard in the study reading, copying, and taking notes. This central role of the written word is reflected in visual depictions of alchemists. Alchemical paintings are full of books: alchemists reading, taking notes, even standing with nose in book while stirring the crucible.

The alchemical manuscripts CHF recently acquired provide the opportunity to highlight the role of the written word in alchemy. And the key to interpreting these artifacts will be supplied by works from CHF's fine art collection. These rarely seen paintings bridge the alchemist's intellectual and practical pursuits. Their scenes of alchemists

working in their laboratories surrounded by books will be juxtaposed with the beautiful hand-written manuscripts themselves.

Books of Secrets will illustrate the craftsmanship of these early written books, from the materials used to the symbols embedded, and will demonstrate their use in the workshop. The exhibit will conclude by revealing the transition from handwritten manuscripts to their early printed counterparts, emphasizing the persistence of individuality among the later editions. Books of Secrets will be open through September 2015.

Chemical Heritage Foundation Adds Four to Board of Directors

The Chemical Heritage Foundation (CHF) added four members to its board of directors earlier in 2014. Three of the new board members are chemists from universities in California and Pennsylvania. One is a historian of science at the University of Oxford, United Kingdom.

"It is with great pleasure that we welcome four new members of such high caliber," said Laurie Landeau, chair of the board. Joining the CHF Board of Directors:

- Peter B. Dervan, Bren Professor of Chemistry, California Institute of Technology, who is a representative of the American Chemical Society.
- Robert Fox, Emeritus Professor of the History of Science, University of Oxford

- Ned D. Heindel, H. S. Bunn Chair Professor of Chemistry, Lehigh University, who is a representative of the American Chemical Society.
- Gary D. Patterson, Professor, Department of Chemistry, Carnegie Mellon University, who chairs CHF's Heritage Council.

The board of directors is charged with fiduciary and policy oversight of CHF. Members have served in leadership roles in academe, industry, and historical institutions.

News from the Society for the History of Alchemy and Chemistry

Founded in 1935, the Society for the History of Alchemy and Chemistry (SHAC) has consistently maintained the highest standards of scholarship in all aspects of the history of alchemy and chemistry from early times to the present. The Society has a wide international membership of over 200 with members from 28 countries.

New Deputy Editor of *Ambix*

The Society for the History of Alchemy and Chemistry is delighted to announce that Alan Rocke, Henry Eldridge Bourne Professor of History and Distinguished University Professor at Case Western Reserve University, will be the next Deputy Editor of *Ambix*, starting from 1 January 2015. He succeeds Peter Morris, who has served two years as Deputy Editor following a previous eleven years as Editor of *Ambix*. The Society welcomes Alan, and thanks Peter for his outstanding service. Dr. Morris remains on the Editorial Advisory Board of *Ambix*.

Graduate Network

The SHAC Graduate Network aims to stimulate research into the history of alchemy and chemistry worldwide, by providing research training, grants and networking opportunities for postgraduate students and postdoctoral researchers working in these fields. As part of this scheme, postgraduates and early career researchers are eligible to apply for grants towards the

cost of research (the New Scholars Award). The Society also organizes an annual workshop for students and junior scholars, focusing on methods, sources and approaches in the history of alchemy and chemistry. The 5th annual workshop, 'Geographies of Alchemy and Chemistry', took place in Amsterdam on 24 October 2014. Next year, the workshop will likely be held in or near London. If you have suggestions for a suitably broad topic that is relevant to the history of alchemy as well as chemistry, do not hesitate to get in touch.

If you are a postgraduate student or junior researcher interested in the history of alchemy or chemistry, you are also invited to join our online Graduate Network group, which publicizes announcements and hosts discussions related to the fields. Should you wish to join, please send an email, mentioning your name, affiliation and brief interest, to: shac_graduate_network-subscribe@yahoogroups.co.uk. Please note that you do not need to be a member of SHAC to become part of the Graduate Network).

News from the History of Science Society

The History of Science Society is the world's largest society dedicated to understanding science, technology, medicine, and their interactions with society in historical context. It was founded in 1924 to foster interest in the history of science and its social and cultural relations.

Jürgen Renn Awarded the 2014 Francis Bacon Prize for Outstanding Scholarship in the History of Science

Jürgen Renn, Director at the Max Planck Institute for the History of Science in Berlin, has won the 2014 Francis Bacon Award for his influential studies of structural changes in systems of knowledge. In order to develop a theoretical understanding of knowledge evolution, he has published discussions and analyses

of the origins of theoretical science in antiquity, the emergence of classical mechanics in the early modern period and the revolutions of modern physics in the early twentieth century, including statistical mechanics, relativity, and the quantum.

He is a pioneer of open access in the humanities and has developed and contributed to major exhibitions on the history of science, such as "Albert Einstein—Chief Engineer of the Universe", "Max Planck

Revolutionary against his Will,” and “Archimedes: The Art and Science of Invention.”

Jürgen Renn is honorary professor for History of Science at Berlin’s Humboldt and Freie universities Berlin and a founding member of the Berliner Antike Kolleg. He is a member of many national and international editorial and scientific boards, including the German National Academy of Sciences (the Leopoldina). In 2014 he was awarded the Gustav Neuenschwander Prize of the European Society for the History of Science.

Francis Bacon Award Administered by the California Institute of Technology and the Francis

Bacon Foundation, the \$20,000 biennial award recognizes first-rate scholarship in the history of science and technology and historically engaged philosophy of science. As part of the award, Renn will spend a semester at Caltech as the Francis Bacon Visiting Professor in the Division of Humanities and Social Sciences, interacting with students and faculty. He will also give the inaugural lecture at a conference that will bring together outstanding physicists and historians to celebrate the first century of general relativity.

BULLETIN FOR THE HISTORY OF CHEMISTRY

A publication of the Division of the History of Chemistry of the American Chemical Society

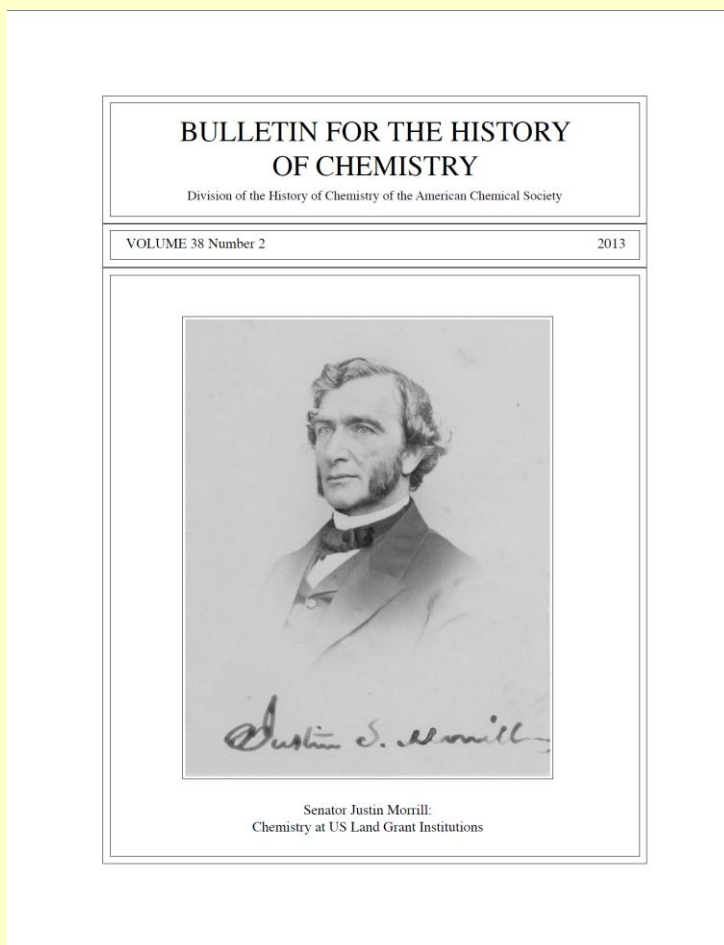
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Full instructions for authors can be found at <http://www.scs.illinois.edu/~mainzv/HIST/info/bull-info.php> or in the back cover of all issues of the *Bulletin*.

All matters relating to manuscripts, book reviews, and letters should be sent to:

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HIST Programming

Message from the HIST Program Chair

In case you hadn't noticed, the HIST Newsletter has gotten a complete new makeover! As the Newsletter is now reaching far beyond the HIST membership (via the HIST webpage and the HIST Facebook page), I thought it was time to migrate to more glossy and professional look. In the process, some of the traditional components have been rearranged in an effort to produce dedicated sections of related content. If you have opinions, or suggestions for further improvements, you know how to reach me.

In terms of programming, we have two outstanding full-day symposia on tap for Denver, with my own *Chemical Technology in Antiquity* symposium on Monday and Joe Gal's *Modern Chemical Warfare* symposium on Tuesday. In addition, Margaret E. Schott will kick off our General Papers session with what looks to be another very interesting HIST tutorial topic that aptly ties into thematic programming. Her presentation Sunday at 1 PM is entitled *HIST Tutorial: Elemental sulfur – a natural (and unnatural) resource*.

In related news, Denver is the first meeting to fully use the new MAPS (Meeting Abstracts Programming System) for abstracts and programming. Hopefully, those submitting abstracts for both Denver and Boston have noticed a more user-friendly interface in comparison to the previous PACS interface. There are still a few bugs to work out in terms of operations from the Program Chairs side of things, but hopefully this move will be an overall positive one for everyone. If you are experiencing any issues with MAPS, please let me know so that I can pass that knowledge up the food chain and we can continue to work on removing barriers to members presenting their research at national meetings.

As always, if you have programming ideas or would like to provide suggestions or feedback, please don't hesitate to let me know (seth.rasmussen@ndsu.edu).

Seth C. Rasmussen, HIST Program Chair



HIST SYMPOSIA, 249th ACS Meeting in Denver, CO, March 22-26, 2015

Schedules and abstracts are listed at the end of this Newsletter.

Chemical Technology in Antiquity

Cosponsored by MPPG, ANYL, CHED, INOR, ORGN

Chemistry is intimately involved in the development of the oldest known civilizations, resulting in a range of chemical technologies that are not only still part of modern civilized societies, but are so commonplace that it would be hard to imagine life without them. Such chemical technology has a very long and rich history, in some cases dating back to as early as 20,000 BCE. This symposium aims to present the discovery, development, and early history of a range of such chemical technologies and is expected to be of significant interest to those curious about the development of some of mankind's earliest and most common technologies. Topics to be presented include not only the most significant and well-researched subjects (pigments, dyes, pottery, fermented beverages, metals and alloys, glass), but also a number of smaller subjects often ignored in the presentation of early chemical technology (leather and tanning, oils and perfumes, soap). The symposium will be held **Monday morning** and **afternoon**, March 23, at the Sheraton Denver Downtown - Tower Court D.

S. C. Rasmussen, Organizer

Modern Chemical Warfare: History, Chemistry, Toxicology, Morality

Modern chemical warfare began during WW I. A variety of substances ranging from tear gas to deadly poisons were used as chemical weapons in the war, killing ca. 91,000 and injuring ca. 1.2 million, with many of the latter condemned to a lifetime of suffering from physical or mental wounds. Both sides used chemical weapons in the war and many eminent chemists and other scientists participated in their development. And yet, some scientists refused, on moral grounds. This symposium will cover aspects of the history, the chemistry, the scientists, the clinical effects of the chemical weapons, and the ethics and morality of chemical warfare, including a presentation by the Organization for the Prohibition of Chemical Weapons (OPCW), winner of the 2013 Nobel Peace Prize. The symposium will be held **Tuesday morning and afternoon**, March 24, at the Sheraton Denver Downtown - Tower Court D.

J. Gal, Organizer

UPCOMING NATIONAL MEETINGS AND HIST DEADLINES

Offerings are subject to change. Check the HIST website (<http://www.scs.illinois.edu/~mainzv/HIST/>) for updates.

250th ACS Meeting, Boston, August 16-20, 2015

Submit your abstract via the new online Meeting Abstracts Programming System (MAPS) by **March 30th, 2014**. If you do not have access to a computer for use in the submission or are having difficulties in submitting your abstract, contact Seth Rasmussen (seth.rasmussen@ndsu.edu). Check the call for papers in *Chemical and Engineering News* or www.acs.org for changes in the abstract deadlines.

HIST Tutorial and General Papers. (**Seeking contributors**) Seth C. Rasmussen, Department of Chemistry and Biochemistry, North Dakota State University, NDSU Dept. 2735, P.O. Box 6050, Fargo, ND 58108-6050, Phone: (701) 231-8747, email: seth.rasmussen@ndsu.edu

Science and Legacy of Henry Hill. (Invited and **Seeking contributors**) Jan Hayes, Hayes, 6829 Barbara Lee Circle, Sacramento, CA 95842, Phone: (916) 331-6886, email: janan.hayes@yahoo.com

Fifty years of Innovation: The Legacy of the Westheimer Report. (Invited) Roger A. Egolf, Pennsylvania State University -Lehigh Valley Campus, 8380 Mohr Lane, Fogelsville, PA 18051-9999, Phone: (610) 285-5110, email: rae4@psu.edu

Edwin Land and Instant Photography: Massachusetts' First National Historic Chemical Landmark. (Invited) Vivian Walworth, StereoJet, Inc., 57 Smith Place, Cambridge, MA 02138, Phone: (978) 369-3735, email: vwalworth@comcast.net; Jack Driscoll, PID Analyzers, LLC, 2 Washington Circle, #4, Sandwich, MA 02563, Phone: (617) 680-2016, email: pidguy@aol.com

251st ACS Meeting, San Diego, March 13-17, 2016

HIST Tutorial and General Papers. (**Seeking contributors**) Seth C. Rasmussen, Department of Chemistry and Biochemistry, North Dakota State University, NDSU Dept. 2735, P.O. Box 6050, Fargo, ND 58108-6050, Phone: (701) 231-8747, email: seth.rasmussen@ndsu.edu

The Posthumous Nobel Prize in Chemistry. Correcting the Errors and Oversights of the Nobel Prize Committee. (Invited and **Seeking contributors**) E. Thomas Strom, Department of Chemistry and Biochemistry, University of Texas at Arlington, P. O. Box 19065, Arlington, TX 76019-0065, Phone: (817) 272-5441, Email: tomstrom@juno.com

Preceptors of Chemistry. (Invited and **Seeking contributors**) Gary D. Patterson, Department of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213, Phone: 412-268-3324, Email: gp9a@andrew.cmu.edu