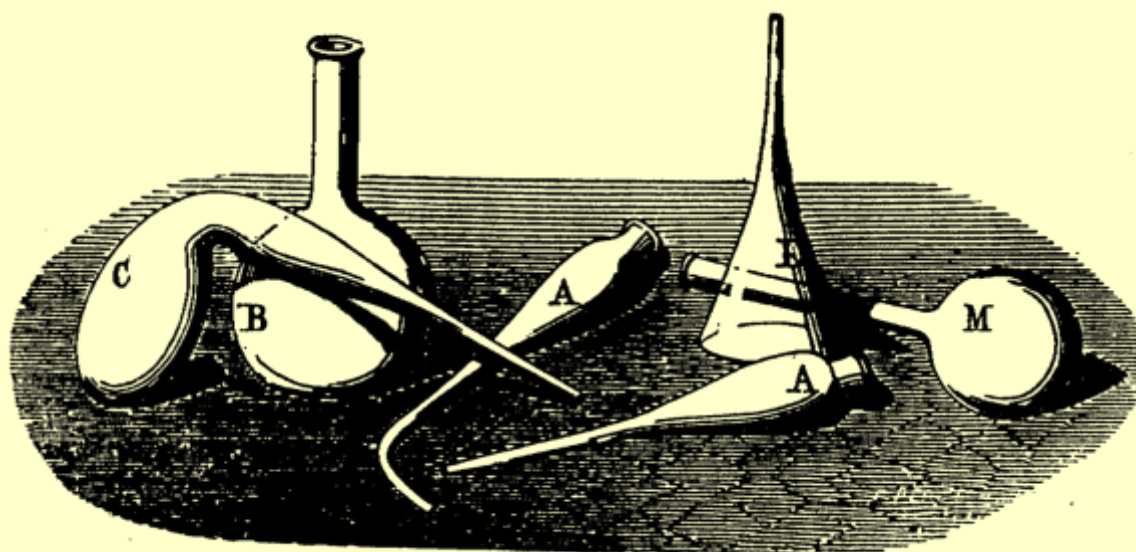




ACS  
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American Chemical Society  
**DIVISION OF THE  
HISTORY OF CHEMISTRY**



**NEWSLETTER**

252<sup>nd</sup> ACS National Meeting  
Philadelphia, PA  
August 21-25, 2016

*S. C. Rasmussen, Program Chair*

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## Mission Statement

The Division of the History of Chemistry ([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

It has been an exciting two years. The HIST Division has been very active during 2015-2016. In addition to strong programming at national meetings, HIST continues to play a large role in the international history of chemistry community. This was emphasized at the Pacificchem meeting last year in Hawaii. Another very visible international effort is the Citation for Chemical Breakthrough Program. A special event will be held at the Philadelphia ACS meeting by the CCB in cooperation with ACS President, Donna Nelson, on Sunday morning to honor Rice University and Robert Curl.

The HIST Program in San Diego was filled with great symposia. Once, again HIST was chosen for an MPPG symposium. Both the “Preceptors in Chemistry” and “The Posthumous Nobel Prize in Chemistry” were chosen for the ACS Book Series. This continues the outstanding record of HIST in producing ACS Symposium volumes.

The HIST Program for Philadelphia also stretches into Wednesday. Two of the most beloved members and former members are being celebrated: O. T. Benfey and Charles Price. The HIST Prize will be awarded to Ursula Klein from the Max Planck Institute in Berlin. The chemistry in America before the founding of the ACS will be the subject of an all-day symposium on Monday. It will kick off with an hour-long play (in costume) about the chemists at Harvard and Yale in the 17th to the 19th century.

In an effort to improve the teaching of chemistry at the High School level, HIST is sponsoring a workshop on Saturday, August 20, at the Chemical Heritage Foundation. Four speakers and a group of “history helpers” will demonstrate how the history of chemistry enlivens the teaching of chemistry.

Leading HIST is one of the most pleasant activities imaginable. The strong leadership team and the great membership make truly good things both possible and actual. I look forward to enjoying the future activities of HIST with Ron Brashear as the Chair.

*Gary Patterson, HIST Chair*



## Message from the HIST Chair-Elect

I am excited about my upcoming tenure as Chair of HIST as it will occur in conjunction with an ever-increasing interest in the history of chemistry. As Gary Patterson pointed out in his message as Chair-Elect two years ago, the history of chemistry in its many guises is flourishing in scholarly history organizations around the world while continuing to raise its profile within the ACS. Having worked at cultural heritage organizations for the last twenty-eight years, I am now looking forward to increasing the awareness of historians of chemistry with the richness of the historical sources that exist and still wait to be mined for information. And these sources themselves have a rich history that is often overlooked by historians.



I am also looking forward to helping build stronger ties between HIST and my workplace, the Chemical Heritage Foundation (CHF). At CHF we are undergoing a number of important transitions but the commitment to the history of chemistry remains strong. The things that HIST and CHF can offer to each other are significant and I plan to do what I can to have the two organizations work closely together during my tenure and the years after.

I will see many of you at the ACS meeting in Philadelphia and please take the time to attend the HIST sessions and while in town visit (and encourage your colleagues to visit) CHF!

*Ronald Brashear, HIST Chair-Elect*

## Report of Councilors, Division of the History of Chemistry 251st ACS National Meeting – San Diego, CA, March 16, 2016

### Election Results

**Candidates for President-Elect, 2017.** The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2017: Peter K. Dorhout, Thomas R. Gilbert, C. Bradley Moore, and Gregory H. Robinson. By electronic ballot, the Council selected **Peter K. Dorhout** and **Thomas R. Gilbert** as **candidates for 2017 President-Elect**. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

**Candidates for Districts II and IV.** The Committee on Nominations and Elections announced the results of the election held prior to the San Diego meeting to select candidates from the list of nominees to serve as Directors from District II and District IV on the Board of Directors for the term 2017-2019. By internet ballot, the Councilors from these districts selected **George M. Bodner** and **Christina C. Bodurow** as **District II candidates**; and **Rigoberto Hernandez** and **Larry K. Krannich** as **District IV candidates**. Ballots will be distributed on September 29, 2016 to all ACS members in District II and District IV for election of a Director from each District.

**Candidates for Directors-at-Large.** The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for 2017-2019 terms: Joseph A. Heppert, Kristin M. Omberg, Dorothy J. Phillips, and Kathleen M. Schulz. The election of two Directors-at-Large from among those candidates and any selected via petition will be conducted in the fall. Ballots will be distributed to the Council on September 29, 2016.

### Other Council Actions

**2017 Member Dues:** The Council voted to set the member dues for 2016 at the fully escalated rate of \$166. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

### Academic Professional Guidelines

After approving an amendment to the proposed revised Academic Professional Guidelines the Council approved the revised guidelines, subject to approval by the Board of Directors. The guidelines apply to those members of the academic community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry.

## Resolutions

The Council passed resolutions in memory of deceased Councilors; in gratitude for the officers and members of the San Diego Local Section, host Section for the 251st National Meeting; the divisional program chairs and symposium organizers; and ACS staff.

## Reports of Committees (Highlights)

### Nominations and Elections (N&E)

N&E has established the Vote 20/20 Task Force, charged with examining all aspects of nominations and elections for ACS national offices, and designing an enhanced process to be in place by the year 2020. The committee welcomes ideas from all members as to how nominations and elections should be handled. Send comments to [vote2020@acs.org](mailto:vote2020@acs.org).

### Budget and Finance (B&F)

In 2015, ACS generated a Net from Operations of \$16.6 million, which was \$3.2 million favorable to budget. Total revenues were \$511.7 million, essentially on budget. Expenses ended the year at \$495.1 million, which was \$3.1 million or 0.6% favorable to budget. This variance was attributable to a continued emphasis on expense management across the Society. The Society's financial position strengthened in 2015, with Unrestricted Net Assets, or reserves, increasing from \$144.7 million at December 31, 2014 to \$163.3 million at year-end 2015.

Additional information can be found at [www.acs.org](http://www.acs.org), at bottom, click 'About ACS', then 'ACS Financial Information'. There you will find several years of the Society's audited financial statements and IRS 990 filings.

### Membership Affairs (MAC)

As of December 31, the ACS membership was nearly 157,000, 0.96% less than on the same date in 2014. The number of new members who joined in

### Activities of HIST Councilors

**Roger Egolf** – continues to serve as a member of the Divisional Activities Committee (DAC). He chairs the DAC subcommittee on Governance and Annual Reports and also serves as the DAC Liaison to HIST and to the Division of Computers in Chemistry.

**Mary Virginia Orna** – is presently in the second year of her first term as a full member of the Local Sections Activities Committee (LSAC). In addition, she has recently been appointed Chair of the LSAC Subcommittee on Communications as well as the LSAC Liaison to the Committee on Public Relations and Communications.

*Mary Virginia Orna, Roger A. Egolf, Councilors*

2015 is 25,000. The Society's overall retention rate is 84%. The committee also reported that the number of international members increased to 26,022. That number is 965 higher than in December of 2014. The international growth rate is 3.85%.

### San Diego Meeting Attendance:

As of Tuesday evening, March 15:

Attendees	8398	Expo only	473
Students	5979	Guest	383
Exhibitors	1094		
<b>Total</b>			<b>16,327</b>

### Petitions to Amend Constitution and Bylaws

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than May 4 to be included in the Council agenda for consideration at the fall 2016 meeting in Philadelphia. Contact C&B with any questions or requests for information at [bylaws@acs.org](mailto:bylaws@acs.org).

**Executive Director and CEO** Thomas M. Connelly, Jr. discussed ACS membership programs, reviewed the Information Technology area, and offered personal reflections on his first year as Executive Director and CEO. His direct reports updated the Board on the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, the Office of the Treasurer and CFO, and the Society's Secretary and General Counsel.

### Presidential Succession

The members of the Presidential Succession briefed the Board on their current and planned activities for 2016. President Donna Nelson highlighted presidential programming at the San Diego meeting on employment and diversity in the chemical sciences, and on organic chemistry education. Also, a special discussion topic on the U.S. Employment of Chemists will be conducted at the Council meeting.



### Professor Ursula Klein to Receive 2016 HIST Award

The History of Chemistry Division of the American Chemical Society is pleased to announce that Professor Dr. Ursula Klein of the Max Planck Institute for the History of Science in Berlin is the winner of the 2016 HIST Award for Outstanding Lifetime Achievement in the History of Chemistry. This international award has been granted since 1956 under sequential sponsorships by the Dexter Chemical Company, the Edelstein Foundation, the Chemical Heritage Foundation, and the History of Chemistry Division. The event includes presentation of a monetary prize and a plaque, a symposium honoring the work of Professor Klein, and a lecture by the awardee; it will take place on August 23, 2016 at the American Chemical Society's annual Fall meeting in Philadelphia, Pennsylvania.



Professor Klein's first academic study was chemistry and biology at the Free University of Berlin, and she subsequently taught those subjects for a few years at the secondary level. She then studied history of science and philosophy at the Free University and the University of Konstanz, where she received a Ph.D. (*summa cum laude*) in 1993 and the Habilitation in 2000. Her Ph.D. thesis was published in 1994 as *Verbindung und Affinität: Die Grundlegung der neuzeitlichen Chemie* as an exploration of the meaning of "chemical com-

pound" in the 18th century. She became a Research Scholar at the Max Planck Institute in 1995 and an unscheduled Professor at the University of Konstanz in 2007, where she occasionally teaches. Klein was elected to the Nationale Akademie der Wissenschaft (Leopoldina) in 2008.

Klein's second book *Experiments, Models, Paper Tools. Cultures of Organic Chemistry in the 19th Century* (2003) broke new ground and has been hailed by historian Mary Jo Nye as "a compelling history not only of a transformation in paper tools and in theoretical explanations of chemical reactions, but of what Alan Rocke has called a quiet revolution of plant and animal chemistry (rooted in natural history, medicine and pharmacy) into carbon chemistry." Rocke himself has praised Klein's originality in demonstrating a hitherto invisible turning point when chemical formulas began to be used as "paper tools" in the 1830s before the quiet revolution of the 1850s.

One of Klein's major contributions lies in the study of chemistry as a science of materials. Her book *Materials in Eighteenth-Century Science: A Historical Ontology* (2007, co-authored with Wolfgang Lefèvre) brilliantly examines methods of identification and classification of materials, for example, by composition or by provenance, and the everyday practices of chemists in the decades before and after the so-called revolution of Lavoisier. The two themes of chemical practice as useful knowledge and chemists as expert scientist-technicians are found in Klein's new book *Humboldts Preussen: Wissenschaft und Technik im Aufbruch* (2015). In addition to the notable figure of Alexander von Humboldt, scientific experts such as Andreas Sigismund Marggraf, Franz Carl Achard, Carl Abraham Gerhard and Martin Heinrich Klaproth are presented as active chemical workers in the service of their country.

In addition to these four major monographs, Klein is the editor of seven volumes of collected papers and symposia and of numerous journal articles and book chapters. Her strengths as a scholar, teacher, and research leader have been summarized by the chemist and historian Stephen Weininger as "focused scholarship with a will to fruitfully

transgress disciplinary boundaries while maintaining high standards for scholarship and attention to rigorous technical and philosophical detail.” We are proud to celebrate her reception of the HIST Award.

## 2015 HIST Outstanding Paper Award

The HIST award for the Outstanding Paper Award for 2015 has been awarded to Prof. Matthew Lavine at Mississippi State University. The award is presented to the author of the best paper published in the *Bulletin for the History of Chemistry* during the previous three years, 2013, 2014, 2015. The selected paper was “The Two Faces of Radium in Early American Nuclear Culture” that appeared in Volume 39, No. 1, 53-63 (2013).



## 2016 HIST Award Banquet

As part of its activities at the 252nd ACS National Meeting in Philadelphia, the History of Chemistry Division of the American Chemical Society is pleased to host the 2016 HIST Award Banquet. To be honored at the banquet will be Prof. Ursula Klein, winner of its 2016 HIST Award, and Prof. Matthew Lavine, winner of its 2015 Outstanding Paper Award. The Banquet will be held at the Chemical Heritage Foundation, located along Independence National Historical Park in Philadelphia’s Old City (315 Chestnut Street). The Banquet will start at 6:30 PM and will feature parmesan panko-crusted chicken with tomato relish and arugula pesto, saffron couscous salad, grilled vegetables, rolls and butter, and dessert, as well as a cash bar. **Tickets are \$50 and can be purchased from Vera Mainz, HIST Secretary-Treasurer** (Tickets cover the full cost of the meal, with the exception of beverages). You can pay Vera via check or cash (exact amount preferred) at the banquet or when you see her. If you do plan to attend, please RSVP by August 11th via email ([mainz@illinois.edu](mailto:mainz@illinois.edu)). The Chemical Heritage Foundation is approximately 11 blocks from the Pennsylvania Convention Center.

## Dr. James Voelkel of CHF to Speak at CINF Luncheon

The Division of Chemical Information (CINF) will be having Dr. James Voelkel, Curator of Rare Books, Othmer Library of Chemical History, Resident Scholar, Beckman Center for the History of Chemistry, Chemical Heritage Foundation, as our luncheon speaker during the Philadelphia meeting in August. He is involved with and will speak about The Chymistry of Isaac Newton Project (<http://webapp1.dlib.indiana.edu/newton>), Isaac Newton’s alchemy generally, how The Chymistry of Isaac Newton encodes his alchemical papers in TEI, and a new NEH-funded project on chemical information from late antiquity to around 1800. The luncheon will be held on Tuesday, August 23rd, and luncheon tickets can be purchased through the ACS registration website or by contacting Michael Qiu ([qium@usc.edu](mailto:qium@usc.edu)).

## HIST to Offer Workshop on the Use of the History of Chemistry in the Teaching of High School Chemistry

A one-day workshop will be held on August 20, 2016 at the Chemical Heritage Foundation in Philadelphia. Twenty High School teachers have been invited to join eight members of HIST to explore the uses of the history of chemistry in the teaching of high school chemistry. There will be four major lectures, followed by intensive discussions in small groups. The lecturers are 1) Gary Patterson - *Chemistry in its developing stage*; 2) Jay Labinger - *Modern Inorganic Chemistry*; 3) David Lewis - *History of Organic Chemistry*; 4) Cathy Cobb - *History of Physical Chemistry*. The four discussion leaders are Ronald Brashear, Carmen Giunta, Michal Meyer and Seth Rasmussen. The high school teachers will receive a copy of Bill Brock’s *The Chemical Tree* and many history essays. The “chemical ambiance” and the great food of the CHF will make for a very civilized and informative day.

## Call for Speakers at Upcoming Symposium with YCC and SCC focusing on Industrial Chemistry “Corporate Giants”

The industrial chemistry landscape is currently undergoing significant changes that will have lasting impact on countless younger chemists and aspiring scientists across the globe. Many of our younger scientists can recognize global companies, such as DuPont and Dow Chemical, but only a small percentage of them have an understanding of how monumental these companies have been to the development of chemistry around the globe. Bell Labs, Xerox PARC, Dow Physics Lab, Discovery Station, and many others were the hot beds of scientific research that, regrettable, many younger scientists have never even heard of today let alone know what was accomplished by their organizations.

Countless technologies and everyday materials were discovered and developed at these labs that were renowned for their technical excellence, yet it was often the people and the myriad of personalities and working styles that created the individual distinctive cultures and ultimately their historical relevance. Hearing these personal narratives and stories about the research culture during the formative years of these organizations is a critical step in

helping younger chemists and scientists understand that these bastions of scientific excellence were not populated with “research machines”. They were comprised of people with all of the peculiarities and idiosyncrasies that make every scientist unique; and it was these traits and personalities that ultimately led to successful organizations and successful scientists.

The ACS Division of History, the Younger Chemists Committee and the Senior Chemists Committee are planning to hold a half-day symposium at the 253rd ACS National Meeting in San Francisco, CA (April 2017) to share many of the histories and stories from these industrial chemistry “giants” in order to preserve their memory within the current generation of chemists. The session will focus on providing historical accounting of many of the major achievements from these and other organizations in combination with personal narratives from individuals that were there during their “golden age”. We are currently in the planning stages for this symposium and are requesting individuals that may be able to provide historical perspective or personal narratives from their experiences from these and other “historical industrial chemistry giants” to contact YCC Associate Member Matt Grandbois ([grandboismatthew@gmail.com](mailto:grandboismatthew@gmail.com)) and SCC Member Ernie Simpson ([jesimpson@cpp.edu](mailto:jesimpson@cpp.edu)) by Sept 1st.

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## 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.

### Newton Manuscript Finds a Home in CHF’s Collections

Isaac Newton is one of the most celebrated scientists of all time, but modern research tells us that he also spent over 30 years studying alchemical texts. One of these texts was recently added to our collections: Newton’s handwritten copy of George Starkey’s recipe for philosophic (“sophick”) mercury, considered an essential element for the production of the philosopher’s stone.

“This manuscript helps us understand Newton’s alchemical reading - especially of his favorite author - and gives us evidence of one more of his laboratory procedures. Newton wrote an estimated 1,000,000 words of notes on alchemy during his lifetime, and our manuscript is just one among these,” explains James Voelkel, CHF’s curator of rare books. The acquisition of this extraordinary manuscript generated more than 50 news stories, including articles in National Geographic, Chemistry World, and the



Washington Post, and saw coverage in at least a dozen languages. This manuscript was in private hands for most of the 20th century, but it will now be scanned and made available online for researchers through the Chymistry of Isaac Newton project.

### **Robert G. W. Anderson to Receive the Paul Bunge Prize**

The Hans R. Jenemann Foundation has selected Robert G. W. Anderson to receive this year's Paul Bunge Prize in honor of his lifetime outstanding achievement in writing about and promoting the understanding of historic scientific instruments. The Gesellschaft Deutscher Chemiker (German Chemical Society) and the Deutsche Bunsen-Gesellschaft für Physikalische Chemie (German Bunsen Society for Physical Chemistry) will present the prize at the 115th General Assembly of the German Bunsen Society for Physical Chemistry, which takes place May 5-7, 2016, at the University of Rostock, Germany.

The Paul Bunge Prize is awarded annually by the Hans R. Jenemann Foundation, which is admin-

istered by the German Chemical Society and the German Bunsen Society for Physical Chemistry. The prize consists of 7,500 euros and honors outstanding work published in German, English, or French in all fields of the history of scientific instruments. The prize is named after Paul Bunge, the most important maker of analytical, assay, and high-performance precision balances in the second half of the 19th century.

Robert G. W. Anderson graduated from St John's College, University of Oxford, and has held posts at the Royal Scottish Museum; the Science Museum, London; and the National Museums of Scotland, Edinburgh. He later became director of the British Museum, London. He has held visiting academic posts at the Institute for Advanced Study, Princeton University, and at the Centre for Research in the Arts, Social Sciences, and Humanities at the University of Cambridge (2002–2003). He is an emeritus fellow of Clare Hall, Cambridge, and serves as vice chair of the CHF's Board of Directors.

## **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.

### **Partington Prize 2016/17**

SHAC established the Partington Prize in memory of Professor James Riddick Partington, the Society's first Chairman. It is awarded every three years for an original and unpublished essay on any aspect of the history of alchemy or chemistry. The prize consists of five hundred pounds (£500) if awarded to a single essay of sufficient merit.

The competition is open to anyone with a scholarly interest in the history of alchemy or chemistry who, by the closing date of 31 December 2016, has not reached 35 years of age, or if older is a student in the history of science or has been awarded a masters degree or PhD in the history of science within the previous three years. No restriction is placed on the nationality or country of residence of competitors. Only one entry is permitted from any competitor.

The prize-winning essay will be published exclusively in the Society's journal, *Ambix*. It must not have been submitted to any other journal at any time

before 30 April 2017. Essays must be submitted in English. Essays must be fully documented using the conventions used in the current issue of *Ambix*. Essays must not exceed 10,000 words in length, including references and footnotes.

All entries should be sent to the Hon. Secretary at [prizes@ambix.org](mailto:prizes@ambix.org) in the form of two separate e-mail attachments in Microsoft Office Word. The first attachment should be headed "Partington Prize Entry 2017" and should give the author's name, institution, postal address, e-mail address, date of birth (and, if relevant, the date of the award of the masters degree or PhD), the title of the essay, and the word count. The second attachment should be the essay, which should not identify the author either by name or implicitly. Entries must arrive before midnight GMT on 31 December 2016. The decision of the Society will be final on all matters. The result of the competition will be announced by 30 April 2017.

## 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.

### Digital HPS Consortium

The Digital HPS Consortium is holding its annual conference from Friday morning August 26, through Sunday morning August 28, 2016 at the University of Oklahoma. The conference title is "Varieties of Digital Humanities Experience: Avoiding Silos while Maintaining Uniqueness." The Digital HPS Consortium brings scholars together who are creating complex digital projects. During the meetings these scholars discuss their work, share experiences, and make new connections.

We welcome papers on all types of digital projects in the history and philosophy of science. The meeting theme encourages authors to focus on the

question of how individual projects can be interlinked within networks and on the difficulties of creating resources that can be shared widely. The meeting will conclude with a focused, practical discussion for building a general framework for cooperation.

All meetings will take place in Bizzell Memorial Library on the University of Oklahoma campus in Norman, OK. Please see *Norman 2016 dHPS meeting information* for more information on the conference venue. Free registration for the meeting can be found here: <http://dhps2016.eventbrite.com>. At the registration site, you can enter your suggestion for a paper, if you desire to make a presentation. Space is limited. Registration deadline is April 30, 2016.

## BULLETIN FOR THE HISTORY OF CHEMISTRY

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

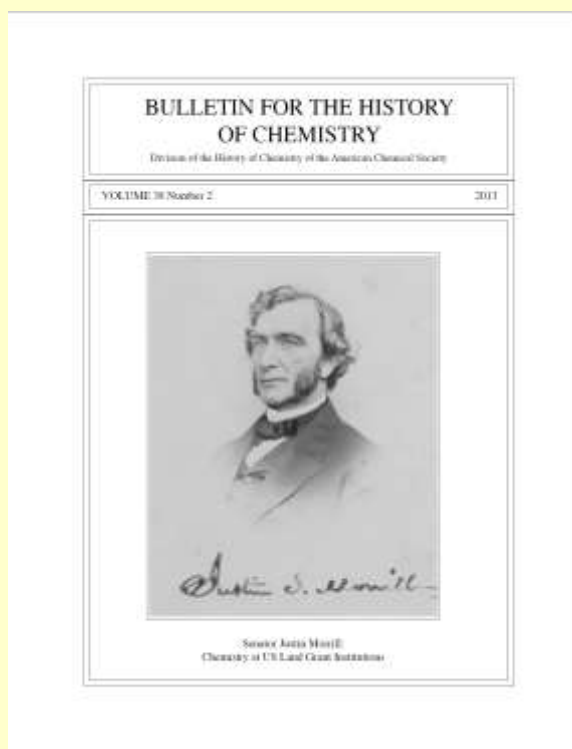
Available online: <http://www.scs.illinois.edu/~mainzv/HIST/bulletin/index.php>

**PAPER SUBMISSIONS:** Articles of 4-20 pages, double-spaced (excluding references) should be submitted electronically by email attachment to the Editor, Carmen Giunta, at [giunta@lemoyne.edu](mailto:giunta@lemoyne.edu). The title of the article should be of reasonable length (up to 15 words); a subtitle may be included if appropriate. Authors should strive to make the title descriptive of the specific scope and content of the paper. Preferred file formats for submissions are .doc, .docx, and .rtf.

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

Hello once again from your humble Program Chair! Our upcoming fall national meeting brings us back to Philadelphia, which always provides opportunities for the members of HIST to interact with the Chemical Heritage Foundation (CHF). This time this includes our HIST Award Banquet which will be held at CHF on Tuesday night (see the news article above on page 5 for more details). In terms of programming, the HIST lineup for Philadelphia looks pretty good. Our programming will consist of four focused symposia, including the HIST Award Symposium to honor this year's awardee Prof. Ursula Klein. In addition, Jeff Seeman has organized a brief Presidential symposium on Sunday morning that HIST is co-sponsoring and which will contain various familiar HIST faces. We also have two general papers sessions, a short session Sunday morning highlighted by the return of the HIST Tutorial series (thanks much to Carmen!) and a full session on Wednesday morning. Please join us for any of the HIST sessions and never be afraid to top any of the HIST leadership team to share ideas or volunteer your time to get more active in the division.



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](mailto:seth.rasmussen@ndsu.edu)).

*Seth C. Rasmussen, HIST Program Chair*

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## HIST SYMPOSIA, 252th ACS Meeting in Philadelphia, PA, August 21-25, 2016

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

### **A Salute to Ted Benfey at 90: Science, History, Culture, and a Commitment to Humanism**

To honor the 90th birthday of chemical historian, scholar and editor, O. Theodor Benfey, eight of his friends and colleagues, as well as his son – an eminent scientist himself and member of the National Academy of Sciences – will present lectures on the history of chemistry and on the life and influences of Benfey. One childhood friend of Ted's, Dr. Hans-Jürgen Peiper, will reminisce about their friendship as pre-teenagers in pre-World War II Berlin, before Benfey fled to Britain to study ultimately with Sir Christopher Ingold. This symposium promises to be both intellectually stimulating and unusually entertaining. The symposium will be held **Sunday afternoon**, August 21, at the Philadelphia Marriott - Franklin 4.

*J. Seeman, Organizer*

### **Chemistry in America: 1676-1876**

Even though America was quite provincial, there was plenty of chemistry happening in the Colonies and in the early Republic. This full-day symposium will start with a play about Chemistry at Harvard and Yale during this period. Both Edward Cook, as John Winthrop, the Younger, and Gary Patterson, as Benjamin Silliman, Jr., will be in costume. A presentation about Chemistry at Princeton will follow by S. K. Vanderkam. A featured lecture by William Newman on Colonial chymistry will complete the morning session. The afternoon will feature a presentation on notable High School teaching of chemistry in Philadelphia by Roger Egolf. One of the greatest historians of American chemistry was Edgar Fahs Smith, and Lynne Farrington, from Penn, will talk about his contributions. The role of women in the founding of the American Chemical Society has perhaps not been adequately presented. Jan Jayes will present the story of Rachel Bodley of Philadelphia, one of the leading chemists of the late 19th century in America. Another "founding father," Charles Frederick Chandler, will be discussed by Edward Cook. Finally, the chemical theory of one of the early Presidents of the ACS, T. Sterry

Hunt, will be deconstructed by Gary Patterson. The symposium will be held **Monday Morning** and **Monday Afternoon**, August 22, at the Philadelphia Marriott - Franklin 4.

*G. D. Patterson, Organizer*

### **Charles C Price, 1965 ACS President: Exploring his legacy after 50 years**

From reaction mechanisms, synthetic polymers, and chemotherapeutics, to the evolution of life: the wide-ranging scientific life of Charles Price. 2015 was the 50th Anniversary of Charles Price's presidency of the American Chemical Society. HIST decided to delay our celebration of that milestone to this year in Philadelphia, the city where he spent much of his life. Price was a man of wide-ranging interests both within and outside of chemistry, encompassing everything from competitive sailing to a strong commitment to world peace through the World Federalist Association. Papers in this symposium will examine topics including his chemical genealogy, his time at Penn, his wide-ranging research interests, which spanned topics from organic reaction mechanisms to polymer synthesis to the evolution of life on Earth, and his service to the ACS, the Chemical Heritage Foundation, and his undergraduate alma mater, Swarthmore College. Be sure to join us for a fascinating Tuesday morning! The symposium will be held **Tuesday Morning**, August 23, at the Philadelphia Marriott - Franklin 6.

*R. A. Egolf, J. Hayes, Organizers*

### **HIST Award Symposium Honoring Ursula Klein**

Six speakers will present papers in the HIST Award Symposium in honor of Professor Dr. Ursula Klein of the Max Planck Institute for the History of Chemistry in Berlin, followed by an Award Dinner at the Chemical Heritage Foundation. In addition to Dr. Klein, the speakers include the three nominators, Mary Jo Nye, Alan Rocke and Steve Weininger, as well as Ursula's husband, the historian of science Wolfgang Lefèvre, and two younger stars in the history of chemistry, Michael Gordin (Princeton) and Evan Hepler-Smith (Princeton). The papers take up some of the themes in Dr. Klein's pioneering work, such as identification and classification of materials, nomenclatures in relation to fundamental laws and principles, chemical formulas and representations as research tools, the contexts of continuities and innovations in chemistry, and chemists' research in the interests of technological and industrial projects. Dr. Klein's keynote lecture, which concludes the symposium, brings the story of technically-useful chemistry for the "common good" from 18th century Prussia into 20th century Germany in Fritz Haber's era. The symposium will be held **Tuesday Afternoon**, August 23, at the Philadelphia Marriott - Franklin 6.

*G. D. Patterson, M. Nye, Organizers*

### **Citation for Chemical Breakthrough Award to Rice University: Symposium Honoring Robert Curl**

*Sponsored by PRES; cosponsored by HIST*

Donna Nelson, President of the ACS, will host a 90-minute Presidential Symposium honoring the discovery of C<sub>60</sub> – buckminsterfullerene – by Kroto, Heath, O'Brien and Smalley in 1985. The HIST Citation for Chemical Breakthrough Award will be presented to Rice University on this occasion. Robert Curl, who shared the 1996 Nobel Prize in chemistry with Harry Kroto and Richard Smalley, will present a lecture on the history of the fullerenes. A panel discussion with Joe Gal, Carmen Giunta and David Lewis will also be held. The symposium will be held **Sunday Morning**, August 21, at the Pennsylvania Convention Center - Room 201C.

*J. Seeman, Organizer*

## **UPCOMING MEETINGS AND HIST DEADLINES**

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

### **253rd ACS Meeting, San Francisco, CA, April 2-6, 2017**

Submit your abstract via the new online Meeting Abstracts Programming System (MAPS) by **November 7th, 2016**. 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](mailto:seth.rasmussen@ndsu.edu)). Check the call for papers in *Chemical and Engineering News* or [www.acs.org](http://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](mailto:seth.rasmussen@ndsu.edu)

**The Science and Legacy of Glenn Seaborg.** (Invited and **Seeking contributors**) Jan Hayes, 6829 Barbara Lee Circle, Sacramento, CA 95842, email: [jmhayesacs@gmail.com](mailto:jmhayesacs@gmail.com)

**Chemistry Through the Eyes of Non-chemists: Evolution of the Public Perception of Chemistry.** (Invited and **Seeking contributors**) Daniel Rabinovich, Department of Chemistry, University of North Carolina at Charlotte, 9201 University City Blvd., Charlotte, NC 28223, Phone: 704-687-5105, email: [drabinov@uncc.edu](mailto:drabinov@uncc.edu); Nicolay V. Tsarevsky, Department of Chemistry, Southern Methodist University, 3215 Daniel Avenue, Dallas, TX 75275, Phone: 214-768-3259, email: [nvt@smu.edu](mailto:nvt@smu.edu)

**Golden Age of Industrial Chemistry.** (Invited and **Seeking contributors**) Matt Grandbois, Dow Chemical Company, email: [grandboismatthew@gmail.com](mailto:grandboismatthew@gmail.com); Ernie Simpson, Chemistry and Biochemistry Department, California State Polytechnic University, Pomona, Pomona, CA 91768, Phone: 909-869-3671, email: [jesimpson@cpp.edu](mailto:jesimpson@cpp.edu)

## **254th ACS Meeting, Washington, DC, August 20-24, 2017**

**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](mailto:seth.rasmussen@ndsu.edu)

**Ladies in Waiting for Nobel Prizes. Overlooked Accomplishments of Women Chemists.** (Invited and **Seeking contributors**) Vera Mainz, 2709 Holcomb Drive, Urbana, IL 61802, Phone: (217) 328-6158, email: [mainz@illinois.edu](mailto:mainz@illinois.edu); 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](mailto:tomstrom@juno.com)

**Past Presidents: Daryl Busch.** (Invited and **Seeking contributors**) Jan Hayes, 6829 Barbara Lee Circle, Sacramento, CA 95842, email: [jmhayesacs@gmail.com](mailto:jmhayesacs@gmail.com)