



American Chemical Society
Division of the History of Chemistry

Newsletter

239th ACS National Meeting
San Francisco, CA
March 21-25, 2010

S. C. Rasmussen, Program Chair

DIVISION OF THE HISTORY OF CHEMISTRY

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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.

Message from Jan Hayes, HIST Division Chair

As I start my second year as chair of the HIST Division, I continue to be amazed at the variety of activities that occur within HIST or are done by HIST members in relation to the History of Chemistry and the ACS.

First, let us focus on activities related to the upcoming Spring ACS meeting in San Francisco. HIST is sponsoring a special symposium, reception, and grand time in honor of the late JACK STOCKER. All are invited to join the symposium to be held on Tuesday afternoon, March 23, in the Moscone Convention Center. Following remembrances by Ned Heindel, Natalie Foster, Jim Walsh, Bill Carroll, John Sharkey and Ben Chastain, Jack's sons Daniel and David will reflect on him as a father. Then we will open the mike for "Jack as we all remember him". How better to end our remembrances than with a party, cash bar and HIST-provided refreshments. Come join us.



Continuing our honoring of Jack, HIST (in cooperation with the Department of Chemistry at the University of New Orleans), is raising funds to develop an ACS HIST Jack Stocker Memorial. We are still not certain what form it will take. Partially it will depend upon the amount of contributions we can collect. We will take donations at the Stocker Symposium. Or, you can send a check to the HIST Secretary/Treasurer Vera Mainz with your contribution. More will be shared by email with the Division as plans for the memorial develop. Stay tuned.

Also at the SF meeting, HIST Chair-Elect Tom Strom has organized a symposium all day Monday, "100+ Years of Plastics: Leo Baekeland & Beyond". This leads me into a discussion of the cooperation between HIST and the ACS Committee on National Historical Chemical Landmarks. Why? Because the first NHCL was for Baekeland's Bakelizer. I hope that in the next few years we can develop a stronger working relationship between the HIST Division members and the NHCL Committee and program. This program is one of the best ways that we can help others within ACS, the education community and the general public to realize the contributions of chemistry and chemical scientists to modern society.

Tom Strom and I are focusing on increasing the interaction between HIST and other ACS Technical Divisions. We have just come from the Leadership Institute in Fort Worth and have opened more doors

for cooperation. We hope this can include cooperation on regional meeting programs, education activities as well as national meeting programming.

One fun cooperative venture I would like to enlist you in comes from the List Serve of the Division of Chemical Health and Safety. A new community college instructor raised the following question, “*I don’t know any history of chemistry. I’m trying to remedy that. Does anyone know of good, interesting chemistry history books or references? Also, any good resources for history of chemists that might be interesting and/or have interesting anecdotes?*” I have the list that the CHAS members sent in for Barbara Gore of Waubensee Community College in Sugar Grove, IL. But I would like to see what HIST members would suggest. Send me (Jan Hayes at jmhayes@earthlink.net) your suggestions. I will then compile a list to share with her and to share with you in the next newsletter and on our HIST Website.

I had the opportunity to represent HIST in November at the initial gathering of 20 different organizations related to the History of Science. Represented were scientists, historians, librarians, and archivists of many different disciplines. We intend to share and work together to address the challenge to preserve our scientific heritage and do something with it. I hope to call on more HIST members to participate as activities are developed for meeting this challenge.

Another request for help from HIST members. The office of the ACS Secretary is trying to find a copy of the 1977 “Yellow Book” to complete their files. If anyone has a copy that they could lend, please contact Cheryl Vockins (c_vockins@acs.org, or 1-800-227-5558, ext. 6171). She promises to return it to you when she finishes copying it unless you want to donate it to the ACS archives.

Just a few more topics of concern to me and to your HIST Executive Committee. We are working on changes to the HIST Awards both for sponsors and descriptions. Please watch for future emails on the new plans. I think your Executive Committee is being very thoughtful and responsive to a desire to honor accomplishments in the history of chemistry field as well as being fiscally responsible.

Finally, we need you. There are a number of ways that you can contribute to the development of the understanding of the history of chemistry. We need people to write articles for the Bulletin, preferably reporting on papers they have given at regional, national, or local section meetings. We need people who are willing to help organize symposia at regional and national ACS meeting. We need individuals who are willing to represent us at a booth on the History of Chemistry at a regional meeting. We need people who believe that history is a wonderful way to help others to learn about the power and accomplishments of chemistry. We need people who would like to talk on topics related to the history of chemistry and chemical enterprises to high school and college classes. We need YOU. Become active in HIST. And to those who are already involved, THANK YOU. And let me know what you are doing so I can share your ideas with others.

Jan Hayes, 2009/2010 HIST Chair

Report of Councilors, Division of the History of Chemistry ACS National Meeting, Salt Lake City, UT, March 25, 2009

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 2010: G. Bryan Balazs, Dawn A. Brooks, Victoria L. Finkenstadt, Wayne E. Jones, Jr., John M. Long, Les W. McQuire, Ingrid Montes, Douglas J. Raber, Frankie K. Wood-Black, and Steven W. Yates. By electronic ballot, the Council elected G. Bryan Balazs, Dawn A. Brooks, Les W. McQuire, Ingrid Montes, and Frankie K. Wood-Black for the 2010-2012 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 2010: R. Gerald Bass, Alan B. Cooper, M. Elizabeth Derrick, Thomas R. Gilbert, Lydia E. M. Hines, Willem R. Leenstra, Sally B. Peters, and Carolyn Ribes. By electronic ballot, the Council elected M. Elizabeth Derrick, Thomas R. Gilbert, Willem R. Leenstra, and Carolyn Ribes for the 2010-2012 term.
- The Council Policy Committee presented to the Council the following slate of candidates for membership on the Committee on Nominations and Elections: Roger F. Bartholomew, Dwight W. Chasar, Milagros Delgado, Kevin J. Edgar, John W. Finley, Martin L. Gorbaty, Sharon P. Shoemaker, Walter O. Siegl, Herbert B. Silber, and Ellen B. Stechel. By electronic ballot, the Council elected Dwight W. Chasar, Milagros Delgado, Kevin J. Edgar, Sharon P. Shoemaker, and Ellen B. Stechel for the 2010-2012 term.

Candidates for President-Elect and Board of Directors

- The candidates for the fall 2009 ACS national election were announced as follows:

President-Elect 2010

Nancy B. Jackson, Sandia National Laboratories, Albuquerque, NM

Cheryl A. Martin, Rohm and Haas Company, Philadelphia, PA

Mary Virginia Orna, College of New Rochelle, New Rochelle, NY

Directors-at-Large - 2010-2012

Dennis Chamot, National Research Council, Washington, DC

H. N. Cheng, US Department of Agriculture, New Orleans, LA

Ray A. Dickie, Ford Motor Company, Efland, NC

Valerie J. Kuck, Lucent Technologies, Montclair, NJ

Howard M. Peters, Peters, Verny, LLP, Palo Alto, CA

Director, District I - 2010-2012

D. Richard Cobb, Eastman Kodak Company, Rochester, NY

Neil D. Jespersen, St. Johns University, Jamaica, NY

Director, District V - 2010-2012

Judith L. Benham, 3M Company, St. Paul, MN

Peter K. Dorhout, Colorado State University, Fort Collins, CO

Petitions (For Action)

- The Council received two amendments to the ACS Constitution and Bylaws for action: The Petition on Candidate Selection by Member Petition – (to be considered for Urgent Action) and the Petition on Election Timelines and Procedures 2009.

The Petition on Candidate Selection by Member Petition proposes to permit candidates to be selected by a petition process from members. To be considered for urgent action, the petition required a $\frac{3}{4}$ affirmative vote. After considerable discussion, a vote to consider the petition at the 2009 fall meeting FAILED. Absent urgent action, the Petition on Candidate Selection by Member Petition will now be up for action at the 2010 spring meeting of the Council.

Next, the Council discussed in great detail the Petition on Election Timelines and Procedures 2009. This petition proposes to shorten certain election timelines and change petition candidates (who go straight on the ballot if they obtain enough signatures) to petition nominees (who need to be screened by Council along with other nominees chosen by the Committee on Nominations and Elections). After rejecting a request to have a recorded vote, the Council VOTED to recommit the petition to the Committee on Nominations and Elections with instructions. Following this action,

N&E sought input through a nonbinding survey to help guide their revisions. A revised petition will likely be up for action at the 2010 spring Council meeting.

Petitions (For Consideration)

- The Council received one petition for consideration: the Petition on Admissions Committee. This petition removes the Admissions Committee from the Bylaws and transfers its functions to the Council Committee on Membership Affairs. Action is expected on the petition at the 2010 spring meeting.

Committee Review

- As part of a regular performance review, the Council VOTED to continue the Committees on Chemical Safety, Minority Affairs, Chemical Abstracts Service, Technician Affairs, and Analytical Reagents. Continuing the first three committees requires Board of Directors concurrence.

Registration Report and 2010 National Meeting Registration Fee

- As of August 19, 2009, the ACS fall national meeting had attracted 14,319 registrants. This was the largest Washington meeting in history. Totals in select categories are as follows: Regular attendees 8,575; Students 3,159; Guests 462; Exhibit Only 676; and Exhibitors 1,447. In keeping with the objective of the National Meeting Long Range Financial Plan, previously approved by the Board of Directors and Council, the Meetings and Expositions Committee recommended to the Board an increase of \$10 for the 2010 national meeting registration fee. The Board will act on this recommendation shortly.

Membership Activity

- The provisions of the Petition on Membership Categories and Requirements were fully implemented this past June with the transfer of former Student Affiliates to Student Member status, and Associate Members to regular Member status. As of July 31, the Society had 9,732 Student Members – 6,500 of them former Student Affiliates and more than 3,000 of them new Student Members.

Dissolution of the Division of Chemical Technicians

- At the 2009 spring Council meeting, the Divisional Activities Committee (DAC) reported that it had voted to accept a recommendation from the Division of Chemical Technicians (TECH) that the division disband and to recommend this action to Council in the fall. On recommendation of DAC, as recommended by TECH, the Council VOTED to disband the Division of Chemical Technicians effective December 31, 2009. DAC agreed that TECH has accomplished its mission of enhancing the status of technicians in the American Chemical Society, and now they are integrated into the other technical divisions.

Changes to Charter Bylaws for New Local Sections and International Chemical Sciences Chapters and Bylaws for Divisions in Probationary Status

- The Council VOTED to accept changes to charter bylaws for new local sections and international chemical sciences chapters, and bylaws for divisions in probationary status. These changes, which were developed in cooperation with the Committees on Divisional Activities, Local Section Activities, and International Activities, are a result of changes to the Constitution and Bylaws

made as a result of the Petition on Membership Categories and Requirements, which became effective on June 30.

Board Committees and Task Force Actions

- The Board of Directors VOTED to approve nominees for the 2010 Perkin Medal and the Alan T. Waterman Award. The Perkin Medal, awarded by the American section of the Society of Chemical Industry to a scientist residing in the US, recognizes innovation in applied chemistry resulting in outstanding commercial development. The Alan T. Waterman Award, presented by the National Science Foundation, recognizes an outstanding young researcher in any field of science or engineering.
- The Committee on Public Affairs and Public Relations announced the designation of “Dip-and-read Tests for Blood and Urine Glucose” (work of Al and Helen Free) as a National Historic Chemical Landmark. The committee also reported on its approval of a new healthcare policy statement, received from the Committee on Economic and Professional Affairs.
- The Board VOTED to approve an action recommended by the Committee on Professional & Member Relations to accept with minor revisions the key terms contained in a draft Memorandum of Understanding (MOU) between ACS and the Royal Society of Chemistry. The MOU: a) offers an opportunity for the ACS and RSC to develop and distribute a “primer,” both in hard-copy and electronic format, to provide the wider population with a basic understanding of the chemistry underlying issues related to sustainability; b) provides a series of joint seminars in the UK, US and elsewhere with participation by scientists, media and decision-makers to focus on sustainability; and c) supports collaboration on activities that train scientists to address issues relating to sustainability and other global challenges in non-technical, readily understandable communications.
- On the recommendation of the Committee on Budget and Finance, the Board VOTED to fund a new program (Science Coaches) and to reauthorize an existing program (ACS Green Chemistry Institute[®]) in the 2010 budget.
- The Board of Directors received a report from the Board–Presidential Task Force on Education. This task force is charged with 1) reviewing recommendations contained in national STEM (Science, Technology, Engineering, and Mathematics) education reports released during the past five years; 2) identifying specific actions that the Society could undertake in response to these recommendations; and 3) creating a priority list of actionable items where the Society can have a unique impact on STEM education. The new Science Coaches initiative was one of the task force’s recommendations.

The Society’s Finances

- In view of the ongoing global recession and its impact of the Society’s finances, the Board received an update on the Society’s current financial position and the projected financial performance for 2009. The Society is projected to end the year with a net contribution from operations of \$11.2 million, or \$528,000 favorable to the 2009 approved budget. The favorable projection is largely the result of Contingency Plan actions and expense management initiatives implemented in early 2009, which are expected to fully offset revenue shortfalls in the Approved Budget across several categories.

The Executive Director/CEO Report

- The Executive Director/CEO, along with several of her direct reports, updated the Board on the activities of the Publications Division, Chemical Abstracts Service, and the Society’s General

Counsel (including the Leadscope litigation). As a part of the Publications report, the Board VOTED to approve the re-appointment of three journal editors.

Other Society Issues

- The Board received a briefing from its Chair on her recent meeting with International Union of Pure and Applied Chemistry (IUPAC) leaders and plans for the International Year of Chemistry-2011 (IYOC-2011). The Board also was briefed by International leaders from the European Association for Chemical and Molecular Sciences (EuChemS), the German Chemical Society, the Korean Chemical Society, the Mexican Chemical Society, the Royal Society of Chemistry, and the Serbian Chemical Society on their strategic directions and on their plans for IYOC-2011.
- With the creation of the ACS Leadership Development System, the Society is now better positioned to create the skilled leadership needed to advance as the world's largest scientific society and to achieve its mission. In recognition of this achievement, the Board awarded plaques to its Oversight Group on Leadership Development for outstanding work on this major initiative.
- The Board received a briefing on a new program to equip ACS members to be more effective spokespersons for chemistry. It is called the Chemistry Ambassadors program, and information may be found at www.acs.org/chemistryambassadors.

Activities of HIST Councilors

Carmen Giunta – serves as a member of the Divisional Activities Committee and its subcommittee on Constitution and Bylaws, liaison to the Committee on Constitution and Bylaws, member of the Committee on Nomenclature, Terminology, and Symbols (NTS) and consultant to the Committee on National Historic Landmarks. He participated in meetings of all four groups in Washington. Of particular interest to HIST members, the division and NTS will co-sponsor a symposium on Chemical Terms and Units at the ACS spring national meeting during the International Year of Chemistry, 2011.

Mary Virginia Orna – continues her service (2nd year of a three-year term) on the Council Policy Committee (CPC); she is also a member of the CPC Subcommittee on Long-Range Planning and the Subcommittee on Constitutions and Bylaws. She is also a candidate for ACS President-Elect for 2010.

Carmen Giunta, Mary Virginia Orna, Councilors

Bulletin for the History of Chemistry

In this the 22nd year of publication of the Bulletin, we are up to Volume 35. When publication by William Jensen, founding editor, was initiated in 1988, it appeared three times a year. With Volume 25 in 2000, we settled on biannual publication and inclusions of cumulative author and subject indexes every five years. So, with publication of Volume 35 Number 2 in September, 2010, you will also have in hand the updated indexes, prepared by Associate Editor Carmen Giunta. Number 1 of Volume 35 has been mailed to all members of HIST, who receive the periodical as part of their annual dues, which financially support its publication. Extra copies of any issue may be ordered through Vera Mainz, HIST Secretary/Treasurer, at \$20 each. Electronic copies of individual articles from all back issues are also available as pdf files to HIST members through the Division website [<http://www.scs.uiuc.edu/~mainzv/HIST>]. If your library lacks a subscription, you should encourage your acquisitions librarian to consider one of the best bargains in periodicals (details are to be found on the back cover of any issue). You are encouraged to submit mss. on history of chemistry at any time. We are always seeking new reviewers of manuscripts and recent books. If you are interested, contact the editor.

Please take note of new features: “Lost Artifacts?” is a column being contributed by Bill Jensen, where missing items—photographs, paintings, texts—are described. Several readers have responded with helpful clues. In this most recent issue, we have initiated publication of “Recollections,” this first one on Kasimir Fajans, written by Lawrence Bartell. We encourage you to consider submitting short anecdotal accounts that would contribute constructively to the wealth of chemical history. *Paul R. Jones* (prjones@umich.edu), *Editor*

Haber: Educational DVD

Thanks to Gregory D. Fisher, HIST members had the benefit of viewing a new film on Fritz Haber during the General Papers session of the Washington, DC meeting this last August. This general-audience film portrays Haber during the early stages of World War I as he faces the dilemma whether to develop chemical weapons for use at the German Front. The film was then followed by a discussion with the writer/director/producer, Dan Ragussis (dan@habermovie.com), during which much interest was expressed for copies of the film for educational purposes. Dan has since contacted HIST to let us know that DVD copies and educational resources are now available through the film's website at <http://www.habermovie.com/education.html>. For more information, please check out the site. *Seth C. Rasmussen, HIST Program Chair*

Message from the HIST Program Chair

As promised, I am back again to continue discussions with the HIST membership about our ongoing efforts in programming within the HIST division. Let me start by thanking everyone that submitted talks for the San Francisco meeting. We actually have enough general talks to fill not just one, but two General Papers sessions! Along the same lines, I am quite happy to see the number of authors willing to be considered for SciMix. For the first time that I can remember, we will have FIVE posters representing HIST for SciMix. Thanks again for everyone that agreed to be considered and I think this increased visibility to the general ACS population is a positive move for HIST. At the same time, however, we need to try to maintain this level of programming, so please still consider presenting at the upcoming meetings in Boston (August 2010) and Anaheim (March 2011).

Now on to less positive subjects. The attempt to organize an 'Undergraduate Symposium in the History of Chemistry' for the San Francisco national meeting fell somewhat flat. Unfortunately, we only had a single abstract submitted and thus were not able to follow through with the symposium. On a positive note though, the student, Natasa Taseski from Le Moyne College, will still be presenting as part of our General Papers session on Tuesday morning. She will be leading off the Tuesday session so please come and support her presentation. I still feel that this is a great way for us recruit students to the division and to build the next generation of HIST members. But to make this work, we really do need HIST members to mentor students on history projects and encourage them to participate. I hope to try this again either next spring or the following spring, so if you have possible students please let me know.

In addition to this first attempt at new types of programming, I will continue developing the other ideas I discussed in the last newsletter, so please feel free to share your thoughts and suggestions (seth.rasmussen@ndsu.edu). Of course, as always, if you have questions about potential talks or symposia, please don't hesitate to contact me.

Seth C. Rasmussen, HIST Program Chair

HIST Symposia, 239th ACS Meeting in San Francisco March 21-25, 2010

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

100+ Years of Plastics: Leo Baekeland and Beyond

Cosponsored by POLY

This full day symposium features twelve papers given by eleven authors dealing with the history of plastics from Bakelite to the era of electronically conducting plastics and polymers for tissue engineering. Among the speakers are Carl Kaufmann, the author of the only full length biography of Baekeland, and Hugh Karraker, Baekeland's great grandson. The symposium organizers are grateful to Dow Chemical and to the Division of Polymer Chemistry for financial support. The symposium will be **Monday morning and afternoon**, March 22, in the Moscone Center -- Room 200 East.

E. Thomas Strom, Organizer

The Many Facets of Jack Stocker: A Diamond Who Defied the Third Law

A special symposium in honor of the late Jack Stocker. Following remembrances by Ned Heindel, Natalie Foster, Jim Walsh, Bill Carroll, John Sharkey and Ben Chastain, Jack's sons Daniel and David will reflect on him as a father. Then we will open the mike for "Jack as we all remember him". The symposium will be **Tuesday afternoon**, March 23, in the Moscone Center -- Room 200 East.

Jan M. Hayes and Mary Virginia Orna, Organizers

UPCOMING NATIONAL MEETINGS AND HIST DEADLINE

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

BOSTON, August 22-26, 2010

Submit your abstract via the ACS Program and Abstract Creation System ([PACS](#)) by **March 29, 2010**. If you do not have access to a computer for use in the submission, contact Seth Rasmussen. Check the call for papers in [Chemical and Engineering News](#) - <http://pubs.acs.org/cen/> or the [ACS website](#) - <http://portal.acs.org/portal/acs/corg/content> for changes in the abstract deadlines. Symposia ideas are still being accepted.

General Papers. (**Seeking contributors**) Seth C. Rasmussen, Department of Chemistry and Molecular Biology, North Dakota State University, Fargo, ND 58105, Phone: (701) 231-8747, Email: seth.rasmussen@ndsu.edu

Anna Jane Harrison: ACS President, Her Science and Her Legacy (Invited and **seeking contributors**) Janan M. Hayes, Merced College (retired), 6829 Barbara Lee Circle, Sacramento, CA 95842; Phone: (916) 331-6886; Email: jmhayes@earthlink.net.

Global Perspectives on Continued Education for Seniors (Invited and **seeking contributors**) Mary Virginia Orna, Department of Chemistry, College of New Rochelle, New Rochelle, NY 10805, Phone: (914) 654-5302, Email: mvorna@cnr.edu.

Women Chemists and Scientists You Know, or If You Don't Know You Ought to Know Them (Invited and **seeking contributors**) [co-sponsor: WCC] Janan M. Hayes, Merced College (retired),

6829 Barbara Lee Circle, Sacramento, CA 95842; Phone: (916) 331-6886; Email:
jmhayes@earthlink.net.

ANAHEIM, March 27-31, 2010

General Papers. (**Seeking contributors**) Seth C. Rasmussen, Department of Chemistry and Molecular Biology, North Dakota State University, Fargo, ND 58105, Phone: (701) 231-8747, Email:
seth.rasmussen@ndsu.edu

Pioneers of Quantum Chemistry (**Seeking contributors**) [Cosponsorship is being sought with COMP] 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

History of Units and Constants (**Seeking contributors**) Carmen Giunta, Le Moyne College, 1419 Salt Springs Rd., Syracuse, NY 13214-1399, Phone: (315) 445-4128, Fax: (315) 445-4540, Email:
giunta@lemoyne.edu

News from the Chemical Heritage Foundation

The [Chemical Heritage Foundation](http://www.chemheritage.org/) - <http://www.chemheritage.org/> (CHF) serves the community of the chemical and molecular sciences, and the wider public, by treasuring the past, educating the present, and inspiring the future. CHF maintains a world-class collection of materials that document the history and heritage of the chemical and molecular sciences, technologies, and industries; encourages research in its collections; and carries out a program of outreach and interpretation in order to advance an understanding of the role of the chemical and molecular sciences, technologies, and industries in shaping society.

Chemical Heritage Foundation to Present Othmer Gold Medal to George M. Whitesides

The CHF has named George M. Whitesides, winner of the Kyoto Prize and the National Medal of Science, recipient of the 2010 Othmer Gold Medal. The Othmer Gold Medal ceremony and dinner will open the eighth annual Heritage Day on Wednesday, 7 April 2010.

Whitesides received an A.B. from Harvard and a Ph.D. from the California Institute of Technology. A member of the faculty at the Massachusetts Institute of Technology from 1963 to 1982, he joined the Harvard faculty in 1982 as the Mallinckrodt Professor of Chemistry. He is the author of over 1,100 scientific articles, and he is listed as an inventor on more than 90 patents. His work encompasses nuclear magnetic resonance spectroscopy, organometallic chemistry, applied enzymology, molecular self-assembly, organic surface science, and nanotechnology. His current research interests include physical and organic chemistry, materials science, biophysics, complexity and simplicity, tools for biology, technology for developing economies, and the origin of life.

William Brock Received 2009 Roy G. Neville Prize for Bibliography or Biography

The CHF awarded the 2009 Roy G. Neville Prize for Bibliography or Biography to William Brock for his book *William Crookes (1832-1919) and the Commercialization of Science*.

Brock's book chronicles the life of William Crookes, an important science journalist, the discoverer of thallium, the inventor of the radiometer, investigator of cathode rays and the vacuum, a spectroscopist of significance in rare earth chemistry, a spokesman for a chemical solution to the problems with the world's food supplies, and (as popular in the Victorian era) an occultist. The book had its origins nearly

40 years ago when Brock published the entry on Crookes for the Dictionary of Scientific Biography, and by using more than 800 published articles by Crookes, as well as surviving manuscripts and laboratory notebooks, Brock has turned the small entry into a comprehensive account of Crookes's diverse life