

HIST Executive Committee Meeting, September 5, 2021

Teleconference – Fall National Meeting (Atlanta, GA) –Hybrid – August 22-26, 2021

The meeting started at 4pm CDT.

Attending: Vera Mainz, Seth Rasmussen, David Lewis, Carmen Giunta, Gary Patterson, Mary Virginia Orna, Roger Egolf, Art Greenberg, Chris Heth, Dan Rabinovich, John Sharkey, Nicolay Tsarevsky, Mihaela Stefan, Kristine Konkol

AGENDA

1) Welcome and announcements, Seth Rasmussen

Seth welcomed everyone to our third virtual Executive Committee (EC) meeting.

- a. Seth introduced two new members of the EC – Mihaela Stefan, the assistant Program Chair and Kristine Konkol, the new Communications chair.
- b. Seth has been relatively busy this summer representing HIST to the greater history of science community, notably through giving talks, one for *Substantia*, one for the International Union of History and Philosophy of Science and Technology (he has now officially joined their Commission on the History of Chemistry and Molecular Sciences), one for IUPAC, where he participated in a symposium on the nature of discovery. He will continue to work on building those bridges with others in the world-wide history of science community.
- c. The rest of his report will be given later.

2) Secretary-Treasurer's Report, Vera Mainz

- a. Minutes of the August 16, 2020, Executive Committee meeting was approved via email vote on April 7, 2021.
- b. In terms of reporting, the HIST funds in the Vanguard Funds are all allocated to the HIST Award Endowment Fund. The return on investment was 8% in 2020, bringing us \$4607.10. See the summary below. The income does not include the HIST symposium support, so if the totals for the HIST Award are within \$500, income and expenses essentially balanced. The pandemic did not allow the 2020 Award symposium for Larry Principe, and current plans are to have an in-person event at the Science History Institute (SHI) on October 16, 2021. Gary Patterson is organizing the event. The 2021 HIST Award winner, Mary Virginia Orna, has chosen to have her award symposium at the Spring 2022 National Meeting in San Diego, with the hope of having an in-person event.

HIST Award Summary

	Dividends	
2011-2012	\$ 1,543.76	4%
2013	\$ 3,813.53	8%
2014	\$ 3,749.04	6%
2015	\$ 3,871.57	6%
2016	\$ 2,837.86	5%
2017	\$ 3,784.41	6%
2018	\$ 5,480.42	9%

2019	\$ 3,166.23	5%
2020	\$ 4,607.10	8%

	Income	Expenses	Difference
2013	\$ 6,675.33	\$ (6,882.90)	\$ (207.57)
2014	\$ 6,119.04	\$ (4,440.65)	\$ 1,678.39
2015	\$ 6,454.58	\$ (4,789.32)	\$ 1,665.26
2016	\$ 7,742.53	\$ (7,286.86)	\$ 455.67
2017	\$10,982.11	\$ (10,348.39)	\$ 633.72
2018	\$ 5,053.24	\$ (5,594.70)	\$ (541.46)
2019	\$ 5,771.23	\$ (5,960.91)	\$ (189.68)
2020	\$ 4,607.10	\$ (403.00)	\$ 4,204.10
2021	\$ 489.18	\$ (408.00)	\$ 81.18
	\$		
TOTALS	53,894.34	\$ (46,114.73)	\$ 7,779.61
	Available	\$ 9,323.37	

- d) In a general way HIST is doing well. There is \$131,573, without the allocation, in unobligated funds. This compares to \$109,661.78 of unobligated funds as of August 19, 2020. Much of these funds are due to the virtual meetings and lack of physical travel to meetings as well as the special allocation.
- e) The 2020 taxes have been filed and copied to the ACS Tax Office.
- f) Pacificchem communications have indicated the meeting is running on a tighter budget than usual. Roger said an ACS staff member, Sydney Vranna, told him that Pacificchem is now hoping to break even and may not have much money to reimburse participating divisions. Seth noted that HIST has already made commitments to our speakers.
- g) ComSci is requesting nominations to serve on the committee. We agreed to ask Art, as chair-elect, to forward Seth's nomination to ComSci, since Seth is currently chair.
- h) There were votes on **three requests for funding**: 1) Request from Jeff Seeman for the Mary Virginia Orna HIST Award symposium – current request is for 2-half day sessions for \$1000. There was some discussion about possible expansion to a third half day session, but Mary Virginia noted that 2 half-day sessions may be still the best option. Seth noted we need to keep the session format in mind, as the fully virtual meetings are usually two hours sessions. The proposal is for the hybrid sessions to be in the 4 hour format and the virtual sessions be 2 hours, but that they would overlap each other. Roger reported they plan to go to that option as they got so many complaints about the sessioning. Roger heard this during the M&E meeting at Atlanta, vs. what Seth had heard from LaTrease Garrison at the Atlanta meeting, as she indicated all sessions would be hybrid. Passed unanimously as originally requested. 2) Request from Mary Virginia for SWRM Austin, TX – 2-1/2 day sessions so support for \$1000 requested. Some sessions will be virtual, some in person. Mary Virginia is concerned for those who aren't chemists who will attend. Art asked how many invitees are non-ACS – Mary

Virginia thought 3 or 4. The organizers are concerned with covering at least registration for the nonchemists. They are also requesting some funds from SWRM. There was some discussion about increasing the support to \$1500 or \$1600, as unused funds would simply not be spent. There are 10 speakers. Passed unanimously, at the rate of \$1600. There was a clarification that the funds were not restricted to only registration. 3) Request from the Graduate Student Symposium Planning Committee (GSSPC), for Spring 2022 program. The discussion noted that from the preliminary program, we would be happy to be nominal co-sponsor of the symposium but decline the request for funding.

- i) The HIST Division 2021 dues are **attached**. The division needs to send the 2022 dues to DAC by April 30, 2021. Vera recommended that we keep the dues at the current level. Several members noted that the current low cost makes a difference in interest from students and noted that they had received queries about joining HIST from students attending the talks at the current meeting. The motion was seconded and passed unanimously.
- j) Art asked for further information about the CCB funds provided by Jeff Seeman. Roger recommends we park the CCB money into another Vanguard fund but held within the current HIST account. Mary Virginia asked if there was any additional cost to open another Vanguard fund; Vera will check but doesn't believe there is.
- k) Treasurer's Report. The Quicken summary of income/expense for 2021 to date is **attached**.

TOTAL OBLIGATED FUNDS as of 04/04/2021

Citations - Seeman 10 year support 2021-2030		\$	13,500.00
Citations Travel		\$	4,103.16
Citations		\$	(208.00)
Archives IPGA + James J. Bohning Memorial Fund		\$	2,413.44
MVO Nat Inv IPGA		\$	265.08
Past Pres IPGA		\$	2,715.14
SERMACS IPGA		\$	2,222.30
HIST Award (Contributions + Dividends)		\$	9,731.37
See and Be Seen		\$	1,500.00
Fontani Book Fund - Fontani HIST membership		\$	250.00
Past Pres		\$	2,715.14
HIST Award Symp F2020	\$1500 + 500	\$	2,000.00
HIST Award Symp F2021	\$1500 + \$1000	\$	2,500.00
HIST - Statistical Mech Chain Molecules		\$	500.00
Bader Symp	\$500 + 500	\$	1,000.00
IPG Tsarevsky Arts		\$	1,900.00
		\$	33,607.63
Vanguard Fund - HIST Match		\$	30,150.50
Vanguard Fund - Lambert 2012 + 2013 + 2014		\$	30,000.00
	TOTAL		
	Endowment	\$	60,150.50

BANK BALANCE as of 04/05/2021		
Checking account	\$	64,092.26
Total checks not cleared 04/04/2021	\$	(408.00)
Deposits not cleared 04/04/2021	\$	489.18
AVAILABLE - Checking	\$	64,173.44
AVAILABLE - Savings	\$	101,007.36
TOTAL AVAILABLE	\$	165,180.80

TOTAL UNOBLIGATED FUNDS as of 04/05/2021
\$ 131,573.17

3) **Report from Program Chair, Nicolay Tsarevsky, attached**

- a. Programming at Atlanta Fall 2021. Nick believes last two meetings have been disastrous from the viewpoint of getting information from ACS. The current schedule is much reduced from pre-pandemic levels. Currently, only Mary Virginia's HIST Award symposium and general papers are the only ones planned for San Diego. He has moved Seth's glass symposium to Chicago, which will also have the HIST anniversary. There should also be the HIST Award symposium. There are no new proposals for symposia, just talks shifted around as speakers don't know if they will be allowed to travel, etc., and many don't want to give virtual talks. Nick noted he couldn't get any responses from ACS for weeks, not even that they had received his request. The lack of information from ACS was directly due to the lateness of the newsletter. Roger noted that he doesn't think staff is back at headquarters. Nick has had 6/7 submissions to Mary Virginia's symposium. The deadline for San Diego is October 11, 2021.
- b. Seth moved an item from new business to the Program Chair report. Seth noted that the same group of people have been doing all the programming for years. With some organizers now not doing this, such as Tom Strom, we need to get more folks involved. Seth suggested sending an email to the membership asking members to consider organizing symposia and therefore get members involved in HIST. We could also suggest pairing new organizers with a more experienced organizer to make it easier to get involved. Nick said this request is always in the Newsletter as part of the program chair information. Gary noted that HIST is the central organization in the US for history of chemistry, but not the only one. The Bolton Society used to sponsor one symposium a year but they haven't done this for a while. SHAC is mostly involved in England, but we could ask them to organize one through their members in the US. HSS could also get involved through our members who are part of both organizations. Gary advocated partnering with these other communities. Carmen thought Seth's suggestion was a good one and we could perhaps send out a few more emails to the members than we'd normally do so. The point would be that having a few single topic messages would make them more effective. Seth proposes that Nick and Mihaela draft an email. Carmen noted that in Atlanta there was a very healthy set of general papers which had about 15 people physically attending. Carmen noted that when

attending via zoom, it was not possible to know how many people were in the room. Carmen asked whether the meeting themes are such that we could again focus on presenting HIST tutorial papers in the general sessions. Nick said it might be good to start including the meeting themes in the Newsletter and on the website. Vera thought it might be useful to note some upcoming anniversaries as possible topics for symposia.

- c. In this newsletter we announced the upcoming Principe symposium, so more may attend than just those who might be at the symposium were occurring at the national meeting. Nick will continue to include symposia outside of the national meetings, especially regional meetings, if people will send him that information.
 - d. Atlantic Basin Conference - <https://abcchem.org/> Atlantichem Dec 2022 in Morocco. The organizers are asking for proposals, but there isn't a lot of information about the requirements for those trying to organize a symposium. Nick and Mihaela are working on a possible proposal. Nick was asked to forward the information to HIST EC. Gary has some recommendations for possible speakers.
 - e. An update on the Elemental Art contest (CEN advertisement **attached**). This contest was to celebrate the 150th anniversary of the periodic table. Poems, cartoons, photographs were the categories. The contest closed April 30, 2021. He currently has 60 entries, although several did not qualify because they weren't about chemistry and/or the elements. One from India, one from Japan. Nick submitted entries so Mary Virginia and Art served as chairs of the award jury. Names were removed from all entries. Nick asking for an additional \$150 because they have two winners for 1st place in the cartoon category. The request was unanimously approved. Mary Virginia asked whether anyone who has not guaranteed the work is original should win a monetary prize. Nick will check with the winners one more time and tell them what they will forfeit if they don't return the form guaranteeing the work is original and belongs to them. We'll also need to get permission to publish in CEN, the HIST newsletter, the HIST website, etc. Art and Mary Virginia applauded Nick for his efforts.
 - f. Pacifichem Report – Seth. Given the support issues for Pacifichem, the ACS extra allocation may need to be used for that support. The program is **attached**. There will be two in person sessions followed by one virtual session for HIST. We've lost one or two speakers through the pandemic. Seth believes the only downside is the way Pacifichem is handling the hybrid approach. In person attendees can see in person talks and virtual talks, but in person talks will not be streamed. Nearly half of invited speakers are now in virtual sessions. Seth has four registrations from Pacifichem, so he'll use those for the invited speakers. Changes may occur if a speaker doesn't register - their abstract will be removed. As of yesterday, Hawaii plans to lift travel/Covid-19 restrictions by mid-October. October 11, 2021, is the date for finalization of the speaker's presentation (virtual or in person) or to withdraw their abstract. Right now, Seth is the only organizer who will be present in person.
- 4) **Report from Councilors**, Mary Virginia Orna and Roger Egolf - **attached**
- a. Mary Virginia Orna – see end of the Councilor Report (attached) for a short report for both. In Council, the question was raised about academic vs industrial

members – ACS is losing industrial members at a great rate. How can this imbalance be addressed. The new membership options may impact divisional membership in the current allocation formula. Roger thought only the two paid levels count for divisional membership. ACS would move anyone not paying into the non-paying category – ACS can then still count them.

- b. Roger Egolf has attended most of the bi-weekly program chair meetings (about 80% of them) over the past several months, in order to keep up with changes as we approach the national meeting. One change is away from the 2 hour session format. M&E was shown a sample schedule for San Diego and it did have 4 hour session blocks. Seth's talk with LaTrea (see 2h, above) is that we are definitely hybrid from now on, but moving away from virtual only sessions. Roger noted that the idea of getting away from virtual only sessions came via the program chair meetings. As long as we have a pandemic situation, ACS may need to still hold fully virtual sessions. In person registration at Atlanta is about 1800, approximately 8000 virtual. The \$399 in person/\$199 virtual registration fees came from the recommendation of a consultant. The San Antonio national meeting had a virtual registration fee of \$99, so maybe they will re-visit the registration fees. Seth noted if you were there in person, you were supposed to log into the meeting platform via your phone and type in your question via the phone. Seth told representatives from ACS they should go see an on-campus option and see how it worked for on-line courses. This option was not made clear to anyone until about half-way through the meeting. ACS staff said they were stuck once they hired the people to deal with the national meeting. Roger and Nick both thought the technical support for the hybrid sessions of the Atlanta meeting was worse than the previous national meeting. The session president in Atlanta didn't know which talks were going to be virtual or in person. Roger asked people to send their comments and complaints to him for transmission to M&E.

5) **Report from Chair-Elect**, Art Greenberg

No report.

6) **Report from Past Chair**, Dan Rabinovich

Dan organized a small symposium for SERMACS 2021 in Birmingham in Nov. 2021 about the discovery of insulin. Symposium was undersubscribed (3 talks) and underfunded. He will promote the division as much as is possible.

7) **Report from the HIST Awards Subcommittee**

- a. Vera reported on discussions with a donor about his possible commitment of funds to help perpetuate the HIST Award and whether there was a naming opportunity. These funds would be coming from outside the US, so it was suggested the Vera should contact the Development people at ACS and see if they have any suggestions. If the HIST Award or other award would be named it would have to be differentiable from any other award. Seth indicated he would have no problem with renaming the HIST Award, but it would have to be hammered out in the rest of agreement. The EC asked Vera to talk with Joe Lambert and see what he thinks, as he was the primary donor to the HIST Award fund to date. Vera noted that the HIST Award jury for the 2022 award is now set

– Mary Virginia Orna, Dan R (chair), Larry Principe, Mary Jo Nye, and Steve Weininger.

- b. 2018 and 2019 Outstanding Paper Awards - Dan Rabinovich will connect with Seth off-line to try to get these awards announced in the next few weeks.
 - c. HIST Fellows – inaugural list (**attached**). This group has been proposed by the HIST Fellows committee and needs to be approved by the EC. There are ten names for class of 2022; some are members of the EC, some are other long-time members of HIST. The preliminary artwork for the pin and certificate need to be finalized and the pins need to be ordered. This first class of fellows will be announced in the Spring 2022 newsletter and the award given out in Fall 2022 meeting. Seth will send the pin artwork to Nick to order Fellow pins. The starting point was the artwork used for the HIST pins. Nick noted that he wanted to use the logo with the retort neck not blocked, which is the current image on the website. He asked Vera to fix those images. The list was presented and approval was unanimous. The next *Bulletin* and Newsletter will have guidelines for nominations for the 2023 class. The committee hopes to name 3 to 5 HIST Fellows each year. Vera requested that Seth ask each Fellow to send short bio and picture for website after notification of the award.
 - d. ACS Fellows nominated from HIST. Seth was inducted as an ACS Fellow this year, but he was not nominated through HIST. He now has a better idea how to put nominations forward with better success. We need to come up with 1 or 2 names for those who should be nominated and send to Seth or Vera.
 - e. The CCB report (**attached**). Vera reported for Jeff, noting the award continues and is in good shape financially. Carmen gave a talk at the Atlanta meeting comparing the NHCL and CCB awards and developed a map of CCB awards locations. Vera asked him to send that to her to put up on the CCB website. Vera asked Carmen if he developed a list of types, such as organic, inorganic, biochemistry, etc. He said he had not, but it would be simple to add to the spreadsheet he developed for his talk.
- 8) **Report from Archivist**, John Sharkey
- a. The Archives are up-to-date. The Finder's Guide is available on the HIST website at <http://acshist.scs.illinois.edu/further/Archives%20Finders%20Guide%203-5-20.pdf>. The main thing missing in the archives is papers that were given at HIST sessions at national and regional meetings. There are currently 52 boxes of HIST archives at SHI. John will transport three years (2019, 2020, 2021) of archives which are currently at his home.
- 9) **Report from Bulletin Editor**, Carmen Giunta
- Carmen reported that volume 46(1) was out in May. This was a huge issue, looking at the page numbers. That led to higher costs to print and mail. Carol Brady Fonvielle, St. Elmo Brady's granddaughter, requested extra copies for distribution to Savannah schools. Carmen is sending them gratis and treating it as outreach. The binding is different for the larger issue and several EC members reported problems with the binding. This was a different binding because of the size of the issue.

- a. Volume 46(2) will be a “normal” size, and will be ready for later this year. Volume 47(1), the special Centennial issue, is looking good. The number of papers for this issue has not been finalized since some papers may be withdrawn.
- b. The *Bulletin for the History of Chemistry* is preparing a special Centennial issue in HIST’s honor. Guest editor Jeffrey I. Seeman and Editor-in-Chief Carmen Giunta have obtained commitments from recipients of HIST’s major awards and current leaders in the history of chemistry to write on the theme “Novel Insights in the History of Chemistry: Looking Back Yet Mostly Looking Forward.” The papers will feature topics and concepts ripe for exploration, opportunities for interdisciplinary investigations, and new ways of analyzing previously studied subjects will be featured. They would like to run a cover with as many photos of former chairs of HIST that they can gather. Assistance welcome if anyone has images. Vera said maybe a single topic email request might make sense. The list of past chairs is on the website. Carmen may ask Kristine for help to publicize the issue.

10) **Report from Historian**, Gary Patterson – report **attached**

Gary has been busy giving talks and working with other divisions to work on their divisional histories. The Centennial History of HIST is launched on the HIST website. Many people have volunteered to write chapters. Vera noted that a link to the Centennial volume is on the Left Menu bar and on the announcement on the homepage.

- a. HIST Award 2020 for Larry Principe will be held on Oct. 16, 2021, at the Science History Institute (SHI). The plans are for the symposium to be in person and also livestreamed, 10:30am-5pm EDT. Participants will have to register, but attendance is free except for lunch if you’re there in person. They expect about 25 people attending in person. Vera will send the plaque and the award check to Michelle DiMeo. Gary also noted that having the event at SHI is not optimal – it should be held at a national ACS meeting. If we have the event at an ACS meeting, the room is essentially “free.” At SHI, so far we’ve been billed for \$2700 for the “room.” In general, if using SHI, we are dealing with a \$3000-\$5000 bill for using their facilities.

11) **Report from the Alternate Councilors**, Christopher Heth, David Lewis; Nicolay Tsarevsky (Program Chair)

- a. MPPG Meeting Themes Update – **attached**.

12) **OLD BUSINESS:**

- a. IPG Proposal and strategic planning. Seth noted we are eligible for up to \$10,000 for strategic planning. Vera said we should wait and previous discussion indicated the EC wants to do this in person as part of a future ACS meeting, say on the front end of such a meeting. Seth believes these funds are not a one-time option. Mary Virginia noted that it is impossible to do strategic planning when ACS is in such flux.
- b. Seth reported that there is supposed to be a special IPG call coming out. Roger believes it should have been sent out by now. Roger suggested that Seth could contact the chair of DAC and ask for the dates for the special, larger money limits than normal IPG’s. The special call also indicated that more than two

IPGs/division could be active as the report deadlines are relaxed right now. Roger noted this in a one-time event.

13) **NEW BUSINESS:**

- a. Discussion of Atlanta meeting and the hybrid ACS meeting format – see item 3(b).
- b. Call for organizers of future symposia – see item 3(b).
- c. Seth received a request for a letter of support from HIST for the National Historic Chemistry Landmark (NHCL) nomination for the Center for History of Chemistry from Mary Ellen Bowden. The EC agreed to support this nomination. Multiple members suggested that Seth should also contact Ned Heindel.

Meeting ended at 6:30 pm CDT.

Appendices

Appendix 1: Funding Requests for Symposia Support (3)

Appendix 2: HIST Division Dues, 2021

Appendix 3: Quicken Summary, Income/Expenses to date

Appendix 4: Future Symposia Schedule

Appendix 5: Elemental Art IPG Report

Appendix 6: Pacifichem 2021 programming schedule

Appendix 7: Councilor's Report, Atlanta, Fall 2021

Appendix 8: Inaugural Class of HIST Fellows

Appendix 9: Citation for Chemical Breakthrough Report

Appendix 10: MPPG Themes



Meeting/Symposium/Conference Funding Request ACS Division of the History of Chemistry

The Division of the History of Chemistry (HIST) recognizes the value of supporting the organization of symposia, conferences, or meetings that benefit the study and promotion of the history of chemistry. If you are organizing such an event and would like to request financial support (typically, \$500 per half-day session), please submit this form to the Division's Secretary-Treasurer, Dr. Vera Mainz (mainz@illinois.edu) no later than **two weeks** before the HIST Executive Committee meets to consider such requests (*i.e.*, during the national ACS meetings in late March and late August). Most successful requests are submitted at least six months before the actual symposium or conference takes place. **It should not be expected that late submissions will be considered.**

Meeting/symposium/conference:

2021 HIST Award Symposium honoring Mary Virginia Orna

Date of event:

Tuesday, March 22, 2022

Location of event:

San Diego, ACS National Meeting

Organizer(s):

J. I. Seeman

Affiliation(s):

HIST and the University of Richmond (for JIS)

E-mail(s):

jiseeman@yahoo.com

Budget request (\$):

2 x \$500 = \$1000

Title and brief description of symposium, including the anticipated number of speakers and the likely number of sessions to accommodate those speakers (use additional pages if necessary):

2021 HIST Award Symposium honoring Mary Virginia Orna.

The speakers and presidors will be:

Bowden, Mary Ellen	Hayes, Jan	Mainz, Vera	Seeman, Jeff
Fontani, Marco	Haynie, Sharon	Orna, Mary Virginia	Smith, Patricia
Girolami, Gregory	Jeffers, Joe	Patterson, Gary	Egolf, Roger (presider)
Giunta, Carmen	Koren, Zvi	Rabinovich, Dan	Tsarevsky, Nick (presider)
Greenberg, Art	Lewis, David	Rasmussen, Seth C.	



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Meeting/symposium/conference:

ACS SouthWest Regional Meeting Symposium

Date of event:

October 31-November 3, 2021

Location of event:

Austin, Texas

Organizer(s):

Mary Virginia Orna and Sara Hubbard

Affiliation(s):

HIST and the Ouachita Baptist University (SH)

E-mail(s):

maryvirginiaorna@gmail.com

Budget request (\$):

2 x \$500 = \$1000

Title and brief description of symposium, including the anticipated number of speakers and the likely number of sessions to accommodate those speakers (use additional pages if necessary):

ACS SouthWest Regional Meeting, Austin, TX, October 31-November 3, 2021

History of Chemistry and Art (Invited and Seeking Contributions). Organizers: Sara E. Hubbard, Department of Chemistry, Ouachita Baptist University, Arkadelphia, AR 71998, Phone: (870) 245-5533, email: hubbards@obu.edu; Mary Virginia Orna, ChemSource, Inc., 39 Willow Drive, New Rochelle, NY 10805, Phone: (914) 310-0351, email: maryvirginiaorna@gmail.com; mvorna@protonmail.com.

The 2021 Southwest Regional Meeting (SWRM) theme is "Chemical Innovations for Global Challenges." The symposium on History of Chemistry and Art will focus on innovative approaches to incorporating both the history of chemistry and the history of art into course development, publications, museum exhibits, blogs, social media, research in chemical education, and Divisional and Local Section programming. The Central Texas Section is committed to facilitating a safe and interactive environment for innovation, learning and networking in the chemical enterprise. For the latest meeting information: SWRM2021.org or info@SWRM2021.org.

Two half-day sessions to accommodate an anticipated 12 speakers.



Meeting/Symposium/Conference Funding Request ACS Division of the History of Chemistry

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Meeting/symposium/conference:

ACS GSSPC Spring 2022 Symposium: Mother Nature Knows Best: Bonding in protein chemistry

Date of event:

March 22nd, 2022

Location of event:

San Diego Convention Center / San Diego, USA

Organizer(s):

Sebastian Kenny, Shanica Brown, Rishi Patel, Amir Alwali, Allison Kempen, Wilson Ong

Affiliation(s):

ACS Division of Chemical Education (GSSPC), Purdue University Department of Chemistry

E-mail(s):

gsspc@purdue.edu

Budget request (\$):

1,000

Title and brief description of symposium, including the anticipated number of speakers and the likely number of sessions to accommodate those speakers (use additional pages if necessary):

Symposium Title: Mother Nature Knows Best: Bonding in protein chemistry

Since the first discovery of proteins in the 1789, the fundamental understanding and applications of protein chemistry remains critically relevant in a variety of fields including diagnostics, catalysis, materials science, and pharmaceuticals. This symposium aims to showcase the full diversity of protein chemistry; from the fundamental structure of proteins, the analysis of their functions/purpose, to the myriad of translational applications available. Our comprehensive approach to this field of chemistry also provides us with the opportunity to celebrate the milestones that have been attained and the predecessors who worked tirelessly to accomplish them. In particular, the symposium will be dedicated as a tribute towards the late Dr. Ronald Breslow, an organic chemist renowned for his contributions towards understanding the role of proteins in the origins of life, bioorganic and biomimetic chemistry. To fully encapsulate his memory, we have invited three former alumni of the Breslow Lab, who all focus on different subfields in protein chemistry. The presentation of their research will allow us to display the diversity of the field while also educating the audience on the trajectories of various areas of protein chemistry from the past to the present.

The symposium will be a one-day (two half-day session) event from 9.00 a.m. to 6.30 p.m. consisting of ten speakers who will be split up across three separate sessions covering: 1) Protein analysis and functional discovery, 2) Protein labelling and modification strategies and 3) applications of protein chemistry. Additionally, this symposium will honor the efforts of Professor Breslow who fought for gender equality in chemistry and the academic community in the 1980s, which eventually culminated into the admission of women into Columbia University. The symposium will celebrate this milestone of equality in the scientific community through a “Women in Protein Chemistry” segment. This will allow guests and participants to celebrate the current victories of gender equality over the years, as well as, discuss and reflect on the next steps that will bring us even closer to a truly gender neutral and meritocratic research climate. While the theme of the symposium is largely focused on protein chemistry, we firmly believe that the various events that delves into understanding the history that paved the way for the current cutting-edge research, as well as the events that reflect on the past and present of gender equality in academic research is in parallel with the fundamental interests of The Division of the History of Chemistry. As such, we hope that you will help us to showcase our vision by investing in the execution of this symposium. For more details pertaining to the event, please refer to the attached sponsorship packet.



2021 DIVISION DUES

DEADLINE
April 30, 2020

DIVISION: HIST – History of Chemistry Division

DIVISION #: D515

OFFICER NAME: Vera V. Mainz

OFFICE HELD: Secretary/Treasurer

SIGNATURE: Vera V. Mainz

	<u>DUES</u>	<u>ADDITIONAL POSTAGE</u>	<u>PRODUCT</u>	<u>SUBDIVISION</u>
REGULAR MEMBER	\$20	\$10.00 for outside NA**	\$0	
DIVISION AFFILIATE	\$25	\$10.00 for outside NA**	\$0	
SOCIETY AFFILIATE	\$25	\$10.00 for outside NA**	\$0	
STUDENT MEMBER <i>Graduate/Undergraduate</i>	\$20	\$10.00 for outside NA**	\$0	
RETIRED MEMBERS	N/A			
EMERITUS STATUS (members)*	\$10	\$10.00 for outside NA**	\$0	

*Refer to Division Bylaws

**NA – North America

- Who is eligible for EMERITUS STATUS in your Division? Those eligible for Society Emeritus status are eligible for Division Emeritus status.
- Must be Division member before becoming member of subdivision(s)? (a) **Yes** **No X**
- Division membership free for the first year? (c) **Yes X** **No** **N/A (no subdivisions)**
- Student membership free for the first year. (h) **Yes X** **No**

For your reference: the 2020 dues price list can be viewed at:

<https://www.acs.org/content/acs/en/membership-and-networks/join/acs-technical-division-prices.html>

Please e-mail, fax or mail to:
Carol Payton
Member Programs & Communities
E-mail: division@acs.org
Fax: (202) 872-6098

Please complete and return this form even if your dues have not changed.

2020 Itemized Categories Report - Year To Date

1/1/2021 through 9/3/2021

9/3/2021

Page 1

Date	Acc... Num	Description	Memo	Amount
INCOME				44,983.95
Allocation ACS				27,074.54
Other Allocation ACS				27,074.54
4/15/2021	Bus... DEP	ACS/EFT Remittance	2021 and extra allocation	27,074.54
Bulletin - Lib				630.00
1/28/2021	Bus... DE...	Museo Galileo	2021 Museo Galileo	50.00
1/28/2021	Bus... DE...	EBSCO - Ck#3227823	2021 Smith College	40.00
			2021 Science Museum Library	50.00
1/28/2021	Bus... DEP	EBSCO - Ck#3226950	2021 Nat Lib Med	40.00
1/28/2021	Bus... DEP	EBSCO - Ck#3224220	2021 Univ New Hampshire	40.00
1/28/2021	Bus... DEP	EBSCO - Ck#3223458	2021 Wellcome Lib	50.00
2/16/2021	Bus... DEP	LM Information Delivery Ck#12088	2021 Uppsala	50.00
3/15/2021	Bus... DEP	LM Information Delivery Ck#0566594	2021 Univ Valencia	50.00
3/15/2021	Bus... DEP	LM Information Delivery Ck#567220	2021 Statsbib. Tidsskrift.	50.00
5/15/2021	Bus... DEP	EBSCO -	Philips Exeter 2021	40.00
6/11/2021	Bus... DEP	Lehigh University Ck#10345270	2021	40.00
6/11/2021	Bus... DEP	Univ Of Cincinnati Ck#0314385	2021	40.00
6/11/2021	Bus... DEP	Cornell University Ck# 0040248153	2020	40.00
8/3/2021	Bus... DE...	Museum Boerhaave	2019	50.00
Bulletin-Bkls				20.00
2/16/2021	Bus... DE...	John Parascandola	2020	20.00
Dividend				3,280.01
HIST Award				3,280.01
1/5/2021	Bus... DEP	Vanguard Wellington Fund Investor Shares		2,428.01
4/4/2021	Bus... DEP	Vanguard Wellesley Income Fund Investor Shares		236.45
4/4/2021	Bus... DEP	Vanguard Wellington Fund Investor Shares		252.73
7/26/2021	Bus... DEP	Vanguard Wellesley Income Fund Investor Shares		191.23
7/26/2021	Bus... DEP	Vanguard Wellington Fund Investor Shares		171.59
Donations				1,850.00
HIST Award				1,500.00
4/8/2021	Bus... DE...	Vera Mainz		1,500.00
OPA				350.00
4/8/2021	Bus... DE...	Vera Mainz		350.00
Dues Income				10,475.00
ACS				10,270.00
4/15/2021	Bus... DEP	ACS/EFT Remittance	Jul-Dec 2020	6,460.00
8/18/2021	Bus... DEP	ACS/EFT Remittance	Jan-Jun2021	3,810.00

2020 Itemized Categories Report - Year To Date

1/1/2021 through 9/3/2021

9/3/2021

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Date	Acc... Num	Description	Memo	Amount
Direct from Members				205.00
1/21/2021	Bus... DE...	Eric Scerri		20.00
1/28/2021	Bus... DEP	Peter Ramberg		25.00
2/16/2021	Bus... DE...	John Parascandola		25.00
4/19/2021	Bus... DE...	Ana Goldfarb		35.00
5/15/2021	Bus... DEP	Jeff Seeman	2021 Dues Roald Hoffman	20.00
5/15/2021	Bus... DEP	Brian D'Amico		20.00
6/8/2021	Bus... DE...	Ernst Homburg		35.00
9/1/2021	Bus... DEP	Mica Schenkelberg		25.00
Grants & Awards				759.00
Citation ChemBreakthroughs				759.00
2/16/2021	Bus... DEP	University Of Chicago	reimbursement CCB Mulliken 2020	357.00
6/11/2021	Bus... DE...	University Of Chicago	Physics Dept Mulliken CCB reimb	342.00
8/31/2021	Bus... DE...	Univ Of Manchester-Moseley CCB		60.00
Int Inc				6.72
1/29/2021	Bus... DEP	Interest		0.85
2/28/2021	Bus... DEP	Interest		0.78
3/31/2021	Bus... DEP	Interest		0.86
5/2/2021	Bus... DEP	Interest		0.83
5/31/2021	Bus... DEP	Interest		0.85
6/30/2021	Bus... DEP	Interest		0.83
7/31/2021	Bus... DEP	Interest		0.86
8/31/2021	Bus... DEP	Interest		0.86
Reimbursement				823.49
5/15/2021	Bus... DEP	Vera Mainz	Paypal incorrect charge Orna Willis	565.00
6/11/2021	Bus... DE...	Vera Mainz	PayPal incorrect charge DebBee's De...	240.00
			PayPal incorrect charge Stitcher's Gar...	18.49
Royalties				65.19
4/1/2021	Bus... DEP	Oxford University Press		65.19
EXPENSES				-27,595.16
Award				-4,712.00
HIST Award				-3,183.00
3/22/2021	Bus... 1437	**VOID**Stellar Kent	2021 plaque-Orna	0.00
7/16/2021	Bus... 1441	Science History Institute	SHI room charge 2020 award	-2,775.00
7/26/2021	Bus... 1442	Stellar Kent	2021 plaque-Orna; reissued	-408.00
IPG Elemental Art				-1,500.00
1/28/2021	Bus... 1435	ACS/Invoice #A6117236	Ad CEN 1/18/2021	-1,500.00

2020 Itemized Categories Report - Year To Date

1/1/2021 through 9/3/2021

9/3/2021

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Date	Acc... Num	Description	Memo	Amount
Polymer History 2020				-29.00
4/19/2021	Bus... 1439	Evan Culver	registration	-29.00
Award-Non-Meeting				-2,874.58
Citation ChemBreakthroughs				-2,874.58
1/15/2021	Bus... 143...	Stellar Kent	8321 - Perkin	-434.32
			8322 - Ramsay	-434.32
			8323 - Moseley	-434.32
			8324 - Mulliken (3)	-1,071.00
			8327 - Rayleigh	-440.62
8/3/2021	Bus... 1444	Stellar Kent	Inv8594-reship Moseley plaque to be ...	-60.00
Bank Chrg				-23.26
PayPal Transaction Fee				-23.26
1/21/2021	Bus... DE...	Eric Scerri		-0.88
1/28/2021	Bus... DE...	Museo Galileo		-2.50
4/19/2021	Bus... DE...	Ana Goldfarb		-1.84
6/8/2021	Bus... DE...	Ernst Homburg		-1.84
6/11/2021	Bus... DE...	University Of Chicago		-10.22
8/3/2021	Bus... DE...	Museum Boerhaave		-2.50
8/31/2021	Bus... DE...	Univ Of Manchester-Moseley CCB		-3.48
Bulletin				-16,182.69
Postage				-1,742.69
1/11/2021	Bus... 143...	Carmen Giunta	v45(2) - Domestic postage	-482.32
			v45(2) - postage mailing extra copies	-111.76
1/27/2021	Bus... 143...	**VOID**Carmen Giunta	v45(2) - Domestic postage	0.00
			v45(2) - postage mailing extra copies	0.00
7/27/2021	Bus... 144...	Carmen Giunta	Domestic members and subscribers	-816.03
			Domestic authors complimentary copies	-36.83
			Foreign authors complimentary copies	-295.75
Other Bulletin				-14,440.00
4/19/2021	Bus... 1438	Le Moyne College	Bulletin expenses	-12,000.00
6/29/2021	Bus... 1440	Agnes Soderbeck	No. 46(1)	-2,440.00
Counc Trav Exp				-1,397.83
8/31/2021	Bus... 1446	**VOID**Mary Virginia Orna	Atlanta 2021	0.00
8/31/2021	Bus... 1449	Mary Virginia Orna	Atlanta 2021	-1,397.83
Misc				-823.49
4/22/2021	Bus... EFT	PayPal	incorrect charge-AdornbyOrna	-565.00
4/27/2021	Bus... EFT	PayPal	incorrect charge-Stitcher's Garden	-18.49
5/13/2021	Bus... EFT	PayPal	incorrect charge-DebBee'sDesigns	-240.00

2020 Itemized Categories Report - Year To Date

1/1/2021 through 9/3/2021

9/3/2021

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Date	Acc... Num	Description	Memo	Amount
Nat Mtg Trav				-1,091.31
8/31/2021	Bus... 1445	Seth Rasmussen	Atlanta F2021	-471.65
8/31/2021	Bus... 1447	Mihaela Stefan	Atlanta F2021	-285.62
8/31/2021	Bus... 1448	Vera Mainz	Atlanta F2021	-334.04
Office				-490.00
Tax Prep				-490.00
2/22/2021	Bus... 1436	Daniel E. Holder And Associates	2020 Tax Prep Form 990-EZ	-490.00
TRANSFERS				0.00
Busey Checking				0.00
6/3/2021	Bus...	SAVINGS	keep account active	1,000.00
6/8/2021	Bus...	SAVINGS	keep account active	-1,000.00
Busey Savings				0.00
6/3/2021	Bus...	TXFR SAVINGS	keep account active	-1,000.00
6/8/2021	Bus...	TXFR SAVINGS	keep account active	1,000.00
OVERALL TOTAL				17,388.79

RECENT PAST AND FUTURE HIST SYMPOSIA

Meeting dates	Location	HIST symposia (- General Papers at every meeting)	Notes
August 19-23, 2018	Boston	<ol style="list-style-type: none"> 1. Louis Pasteur's Discovery of Molecular Chirality: Review and Analysis on the 170th Anniversary (1 day) [Greg Girolami, Joe Gal] 2. Past ACS Presidents: The Life and Career of Arthur Cope (1/2-1 day) [Roger Egolf, Jan Hayes] 3. HIST Award Symposium Honoring David Lewis (1 day; Tuesday) [Seth Rasmussen] 	Nanotechnology
March 31 – April 4, 2019	Orlando	<ol style="list-style-type: none"> 1. Archaeological Chemistry (2 days) [Seth Rasmussen, Mary Virginia Orna] 2. Pioneers of Magnetic Resonance [Vera Mainz, Tom Strom] 	Chemistry for New Frontiers
August 25-29, 2019	San Diego	<ol style="list-style-type: none"> 1. HIST Award (Tuesday, 1 day) 2. 150 Years of the Periodic Table (1.5 days) [Carmen Giunta, Vera Mainz, Greg Girolami] 3. The Bibliography of Chemistry (1/2 day) [Gary Patterson] 4. 150 Years of the Publication of the 1st issue of Zhurnal Russkogo Fiziko-Himicheskogo Obshtestva (1/2 day) [David Lewis, Nick Tsarevsky] 	Chemistry of Water
March 22-26, 2020	Philadelphia	<ol style="list-style-type: none"> 1. History of Polymer Science (1+ days) [Nick Tsarevsky, Seth Rasmussen, Gary Patterson] 2. Past ACS Presidents: Daryle H. Busch (1/2 day) [Jan Hayes] 3. The Life and Legacy of Alfred Bader (1/2-1 day) [Mary Virginia Orna] 	Macromolecular Chemistry: The Second Century – ENTIRE MEETING CANCELLED
August 23-27, 2020	San Francisco	<ol style="list-style-type: none"> 1. HIST Award (Tuesday) 2. The Science and Legacy of Glenn Seaborg (1/2 day) [Jan Hayes, Roger Egolf] 3. Springer Briefs in the History of Chemistry: 10th Anniversary [Seth Rasmussen] 4. Historical Thoughts on 'From Bench to Market' [Gary Patterson, David Lewis] 	Chemistry from Bench to Market NO HIST PROGRAMMING
March 21-25, 2021	San Antonio	<ol style="list-style-type: none"> 1. History of Polymer Science (1 day) [Nick Tsarevsky, Seth Rasmussen, Gary Patterson] 	Macromolecular Chemistry: The Second Century


		2. Springer Briefs in the History of Chemistry: 10 th Anniversary (1/2 day) [Seth Rasmussen]	
		3. HIST Award (1/2-1 day) [Gary Patterson]	
August 22-26, 2021	Atlanta	1. Contributions of African American Chemists (1/2 day) [Sibrina Collins]	Resilience of Chemistry
March 20-24, 2022	San Diego	1. HIST Award (1 day) [Jeff Seeman]	Bonding through Chemistry
August 21-25, 2022	Chicago	1. HIST Award (Tuesday) 2. History of Glass [Seth Rasmussen, Dan Rabinovich] 3. HIST Anniversary [Gary Patterson]	Sustainability in a Changing World
March 26-30, 2023	Indianapolis	1. History of Forensic Chemistry (1/2 day) [Nick Tsarevsky]	Crossroads of Chemistry
August 13-17, 2023	San Francisco	1. HIST Award (Tuesday) 2. Chemical Societies [Nick Tsarevsky, Mihaela Stefan]	Harnessing the Power of Data
March 17-21, 2024	New Orleans	1. History of Chemistry Competitions and Olympiads [Nick Tsarevsky]	Many Flavors of Chemistry
August 18-21, 2024	Denver		Elevating Chemistry?
March 23-27, 2025	San Diego		Transformative Chemistry?
August 17-21, 2025	Washington, DC		
Future		1. The History of Chemical Nomenclature [Seth Rasmussen] 2. Disabled Chemists (1/2 day?) [David Lewis] 3. Pyridine, a Privileged Structure: Chichibabin, Hantzsch, and Their Successors (1/2 day) [David Lewis]	

Elemental Art Contest (IPG Report)

Prepared by Nicolay V. Tsarevsky (HIST Program Chair)

1. Announcement

The Elemental Art Contest was advertised in the HIST Newsletter, the HIST website, on the HIST Facebook page, the Newsletters of local sections, and in C&EN (the issues of March 23, 2020 (original deadline of August 31, 2020) and January 18/25, 2021 (extended deadline of April 30, 2021)).



ELEMENTAL ART: A CONTEST (Extended deadline!)

To celebrate the 150th anniversary of the Periodic Table,

The Division of the History of Chemistry (HIST) announces a contest **OPEN TO ALL** for **ORIGINAL ART** in one of the following categories with themes related to the chemical elements, their discovery, or uses:

- Poem
- Cartoon
- Photograph

The three best works in each category (selected by a professional panel of judges) will receive certificates, monetary awards (\$250, \$200, or \$150 for 1st, 2nd, and 3rd place, respectively), and will be published in the HIST Newsletter and Website. Depending on the number of submissions, a volume with the works may be published as well.

Please submit your original art by **April 30, 2021** to the HIST Program Chair, Nick Tsarevsky, at nvt@smu.edu as an attachment to an email with the subject line "**Elemental Art Competition** -- name", in which the name of the person who created the artwork is clearly stated.

The winners will be notified in the fall of 2021.

2. Submissions received

Poems: 22

Cartoons: 27

Photographs: 11

Total: 60

Most submissions were from the US, 1 from India, 1 from Japan, and 1 from Italy (?). Some participants submitted more than one artwork (which was not against the rules), in some cases – in different categories.

3. Selection process

All names were removed from the submissions to avoid any potential conflicts and bias. The works received a number based on the order they were received. The submissions were then sent to the Awards Committee and to external judges. Nicolay Tsarevsky did not participate in the rating process due to a conflict of interest (he was one of the contestants in the “Poem” category). Mary Virginia Orna and Art Greenberg served as Awards Committee Chairs. They rated the submissions and invited external judges to rate them as well. In addition, Mihaela Stefan (UT Dallas) and Christine Hahn (TA&M Kingsville) submitted ratings.

4. Awardees

4.1. Poems

1st place: “Atto Rex Vincent” for the poem “*The Canticle of the Alchemist*” (on Mercury)

2nd place: Robyn Hayes for the poem “*Periodic Silliness*”

3rd place: Alan F. Weir for the poem “*The Alchymist Discovers Phosphorus*”

Honorable mention (certificate but no monetary award): [Harry Jeffrey](#) for the poem “*That’s None of Your Bismuth*”, Margaret E. Schott for the poem “*A Silly Song of Carbon (for Organikers)*”, and “Atto Rex Vincent” for the Poem “I, Silicon”.

4.2. Cartoons

1st place: Swaprabha Chattopadhyay and [“@difluorine”](#) (shared)

2nd place: Naomi Masingale

3rd place: [Chassidy Barnes](#)

Honorable mention: Kenneth Abate (two cartoons – two certificates)

4.3. Photographs

1st place: [Peyton Dodd](#) for a photograph depicting iodine

2nd place: Erik Rodriguez for a photograph depicting samarium

3rd place: [Gracen Hambrick](#) for a photograph depicting helium

The persons whose names are highlighted have not submitted a declaration stating that their work is original, created by them, and not published elsewhere.

5. Total amount needed

Poems: \$600

Cartoons: \$850 (two winners) – subject to approval by the HIST Executive Committee

Photographs: \$600

Total: \$2,050

PROJECT BUDGET:

Received for IPG - \$4900

CEN Ads (March 2020, Jan 2021) - \$3000

Funds remaining= $4900-3000=1900$

To fund \$2050, an additional \$150 is requested from the Ex. Comm. The reason for the need for the additional funds is to award two 1st place winners for the Cartoons category (an extra \$250).

Pacifichem 2021 | December 16 - 21, 2021 | Honolulu, Hawaii, USA

Hands across the Pacific: History of Collaborations and Exchange Programs between Countries of the Pacific Rim

Monday, December 20, 2021 8:00-11:00 AM (in person, Gary Patterson, presiding)

8:00 AM	<i>Opening remarks</i>	
8:10 AM	David Lewis	Correcting the historical record: an Australian American in Russia
8:40 AM	Choon Do	Dr. Taikyue Ree and Dr. Henry Eyring: Their collaboration and contribution to the chemistry of Korea and the United States
9:10 AM	Zafra Lerman	How the Malta Conferences in the Middle East could serve as a model for the facilitation of collaborations and exchanges among countries in conflict in and around the Pacific Rim
9:40 AM	<i>Intermission</i>	
9:55 AM	Brigitte Van Tiggelen	IUPAC and the Pacific
10:25 AM	Bruce Baldwin	Turning a STA fellowship into a teaching career

Monday, December 20, 2021 1:00-4:15 PM (in person, Gary Patterson, presiding)

1:00 PM	Vincent LAL	The state of play: food composition and native food systems in the Pacific Islands
1:30 PM	Hiroto Kono	The role of communication and isolation in making a discipline of busseiron in japan
2:00 PM	Seth Rasmussen	Hideki Shirakawa and conductive polyacetylene films: From "fortuitous error" to Nobel Prize
2:30 PM	<i>Intermission</i>	
2:45 PM	Roger Egolf	Influence of the American Boxer Indemnity Scholarship program on the development of chemical education in China
3:15 PM	Alexander Scheeline	Hanoi and illinois, a trans pacific partnership
3:45 PM	Vera Mainz	The chemistry graduate program and William von Eggers Doering

Monday, December 20, 2021 6:00-9:00 PM (virtual, Seth C. Rasmussen, presiding)

6:00 PM	Ian Rae	Biosecurity in the Pacific: the chemical connection
6:30 PM	Victoria Lee	Trans-Pacific Biosynthesis: U.S.-Japan Collaboration in Applied and Industrial Microbiology Since 1945
7:00 PM	Yasu Furukawa	Kenichi Fukui and American Chemists: Toward the Reception of the Frontier Orbital Theory
7:30 PM	Mary Virginia Orna	History and development of marine natural products chemical research in Pacific Rim countries
8:00 AM	Mary Jo Nye	Linus Pauling and theoretical chemistry in Japan: Pauling's first visit of 1955
8:30 PM	<i>Roundtable discussion</i>	

**DIVISION OF THE HISTORY OF CHEMISTRY
COUNCILORS' REPORT
American Chemical Society – Virtual Council Meeting
August 26, 2021
Atlanta, GA**

1. Actions of the Council

A. Elections

1. Council Policy Committee.

By electronic ballot, the Council elected **Donna G. Friedman, Matthew Grandbois, Fran K. Kravitz,** and **Louise M. Lawter** for a three-year term (2022-2024).

2. Committee on Committees.

By electronic ballot, the Council elected **Mary K. Engelman, Malika Jeffries-El, Brian M. Mathes, Susan V. Olesik,** and **Susan M. Schelble** for a three-year term (2022-2024).

3. Committee on Nominations and Elections.

By electronic ballot, the Council elected **Allison Aldridge, Holly L. Davis, Peter K. Dorhout, Silvia Ronco,** and **Martin D. Rudd** for a three-year term (2022-2024) on the Committee on Nominations and Elections (N&E).

B. Other Council Actions

1. Key Actions

- On the recommendation of the Committee on Committees, and with the concurrence of the Council Policy Committee, Council approved the Petition to Amend the Duties of the Committee on Minority Affairs. The Petition was amended on the floor of Council to strike the word 'minority' in Standing Rule VIII, Sec. 1, b, (9). The Board added its approval in its meeting on August 28.
- The Council (and then the Board) also approved the continuation of the Committee on Environmental Improvement.
- On the recommendation of the Committee on Economic and Professional Affairs, and with the concurrence of the Council Policy Committee, Council (and then the Board) approved the 10th version of the Professional Employment Guidelines.

2. Council Special Discussion

President Cheng introduced and led a special discussion on ideas to increase involvement and membership from business and industry. For the last 5 years there has been a steady decrease in industry members. This can be attributed to a variety of factors, but there have been ongoing efforts to decrease the cost-related attrition while increasing member value.

To address value, ACS has a variety of offerings available to members to advance, discover, connect, and share. To address cost, actions were taken by the Council this past spring in the schedule of membership for 2022 that will provide industry members with flexibility as to membership options. Councilor input was then requested on the following two questions:

1. How can we improve the value that ACS provides to its industrial and business members?
2. How can we encourage academic inventors and entrepreneurs and support start-ups?

3. Resolutions

The Council passed several resolutions:

- In memory of two deceased Past Presidents, Helen M. Free and Daryle H. Busch;
- In memory of deceased Councilors: Dr. Esther A.H. Hopkins, Ms. Jane V. Thomas, Dr. Joseph M. Antonucci, and Dr. Mark D. Frishberg;
- Expressing thanks to the officers and members of the Georgia Local Section; and
- Acknowledging H.N. Cheng's service as ACS President and presiding officer of Council

C. Highlights from Committee Reports

Budget and Finance

The Society's 2021 financial performance through June 30 yielded a Net Surplus from Operations of \$55.0 million, which is \$33.6 million favorable to budget and almost \$6 million greater than the same period in 2020. These mid-year results are based on total revenues of \$324.4 million that are 4.3% favorable to budget, and total expenses of \$269.4 million, or 7% below budget, with unrestricted net assets estimated at \$645 million.

Committee on Committees

ConC will again conduct a Committee Census (formerly called the Committee Demographic Survey) of all Society Committee personnel, including the members of committees elected by Council, in February 2022. This census gives ConC a snapshot of where the committee demographic picture stands as they look toward future recruitment and retention. To assist ACS in advancing its core value of Diversity, Equity, Inclusion and Respect, ConC would like to encourage all committee members and ACS leaders to take the two-hour course entitled "Leading Inclusively: Beyond Lip Service," developed by La'Wana Harris, a Certified Diversity Executive, International Coaching Federation (ICF) Credentialed Coach, and global leadership development professional. To Register, please go to <https://learning.acs.org/course/view.php?id=996> to register.

Nominations and Elections

The Committee on Nominations and Elections solicits Councilors' input regarding qualified individuals for President-Elect and/or Directors for future consideration. Suggestions may be sent to nonelect@acs.org.

Meetings & Expositions

The Fall 2021 Meeting was held live from August 22-26, and on-demand from August 30 – September 30. As of August 25th, there were 8,205 registrations (1,895 hybrid and 6,310 virtual). Of the approximately 1,200 oral sessions held, 71 were only in-person, 244 were hybrid, and 855 were held virtually.

D. HIST Councilors

Mary Virginia Orna is serving as an associate member of the Senior Chemists Committee (SCC). She is on the SCC/YCC Networking Subcommittee and also on the Great Connections Working Group.

Roger Egolf is serving as a member of the Meetings and Expositions Committee (M&E) and its Technical Program Subcommittee. That subcommittee is responsible for advising the ACS meetings staff on the format of national meeting technical programming and the allocation of meeting rooms to the various divisions. Since the COVID pandemic began, M&E has been meeting regularly with the Program Chairs and ACS staff to get updates on the status of upcoming meetings and to make suggestions to ACS staff as they plan the future of ACS national meetings.

Respectfully submitted,
Mary Virginia Orna
Roger Egolf

2022 HIST Fellows (inaugural class)

Ned Heindel
Mary Virginia Orna
Tom Strom
Ronald Brashear
Ben Chastain

Carmen Giunta
Arthur Greenberg
Joe Lambert
David Lewis
Steve Weininger



2021 Citation for Chemical Breakthrough Award Program Update (Up To and Including the 2020 Award Year)

Jeffrey I. Seeman
Award Committee Secretary

August 25, 2021

Summary

- Fifteen years of awards (2006 –2020) have been completed, including four awards for the 2020 award year. Because of COVID, there were no award ceremonies in 2020 or up to August 2021.
- As of January 1, 2021, 76 CCB Awards have been presented to date at 86 sites (due to multiple collaborations and locations) in 12 countries. The countries are: Canada, England, France, Germany, Italy, Latvia, The Netherlands, Poland, Russia, Scotland, Switzerland, and the United States.
- Status for the 2021 award year: Nominations are due October 1, 2021.
- CCB Awards are plaques given to institution from which the research was published.
- We provide assistance with and generally participation in award ceremonies.
- Because of COVID restrictions, no award presentations occurred in the past year.
- Photographs and associated text dealing with the 15-years of award ceremonies are found on the CCB Award’s web pages.
- http://www.scs.illinois.edu/~mainzv/HIST/awards/citations_chem-breakthroughs.php
- The CCB Award program now has many and an increasing number of links on Wikipedia.
- The CCB Award program also has a link and a large description of the program on the ACS National Historic Chemical Landmarks Program (see below).
- Carmen Giunta has developed an interactive geographical-based application for the CCB awards. This will shortly be added to the CCB award’s web-based home page.

https://www.google.com/maps/d/edit?mid=16VU11_aYFk0s9nWfJDfP3P2xtfigyGzL&usp=sharing

Objectives, Strategies and Criteria of the Citations for the Chemical Breakthrough Award Program

The Citations for Chemical Breakthrough Award program is intended to honor and celebrate the achievements in chemistry and the molecular sciences in a publicly visible fashion. Through the involvement of the recipient institutions in the design of the plaques and in the organization and hosting of award celebrations, the program will “expand people’s minds through the enlightening power of the history of chemistry. It will bring history of chemistry to scientists and bring scientists to the history of chemistry.”

The Citations for Chemical Breakthrough award recognizes breakthrough publications, books and patents worldwide in the field of chemistry. The term “breakthrough” refers to advances in chemistry that have been revolutionary in concept, broad in scope, and long term in impact. The award consists of a very high quality plaque, to be placed at a site selected by the recipient near the office or laboratory where the breakthrough was achieved. Each award will be made to the department or institution where the breakthrough occurred, not to the individual scientist(s).

Elaboration of criteria

- “Revolutionary” implies some sort of change in practice or theory after the appearance of the patent or publication.
- “Broad in scope” implies an advance that permeates a sub-discipline of chemistry, or that has applications in more than one sub-discipline, or that has a significant benefit to society.
- “Long-term” implies a minimum of twenty five years since the date of publication.

In 2020, four awards to five sites were made:

- Imperial College London, for William Henry Perkin’s patent on the “lilac or purple color dye” (1856) that began the worldwide chemistry industry.
- The Royal Institution (London) and University College, London, for Lord Rayleigh and William Ramsay’s discovery of argon (1895).
- The University of Manchester, for H. G. J. Moseley’s establishment of the concept of atomic number (1913).
- New York University, for Robert S. Mulliken’s discovery of molecular orbital theory (1928).

The 2021 awards will be presented in the next CCB award annual report.

A tabulation of number of awards per year follows on the next page.

Number of Citation for Chemical Breakthrough Award by Year

	Award Year	Number of Awards*	Duplicate plaques due to multiple collaborative sites*	Duplicates due to researcher associated with other locations*
1	2006	10		
2	2007	6	1	2
3	2008	6		2
4	2009	5		1
5	2010	5		
6	2011	5		
7	2012	4		3
8	2013	4		0
9	2014	4		
10	2015	5		
11	2016	4		
12	2017	4		
13	2018	6		
14	2019	4		
15	2020	4	1	2
	Total	76 in 12 countries	2	10

* For instances in which the award publication resulted from a collaboration at two or more institutions, the “Number of Awards” represents one award for the collaborative publication.

The members of the 2020 and 2021 Award Committees are listed below (next page) and also on the HIST website (with the Award Committee members from the earlier award years).

- The program has received excellent responses in the USA and Europe. To date, no awards have been presented to Asia, the Middle East or South America.
- Nominations are open to all and are advertised on HIST’s website and in an announcement in *C&EN*.
- The plaque-design process is much more difficult than anticipated. It is often hard to obtain the required high-quality scans of original publications from the 19th Century. There have been design issues with the recipient organizations.
- We have received extraordinary cooperation from the plaque manufacturer, Stellar Kent (<http://www.stellarkent.com/index.php>). In fact, in 2014, HIST Certificate of Appreciation Awards were given to Carol Hall, Linda Mason, and the Stellar Kent Corporation for their work on the CCB award program.

- As of past years, the Linda Hall Library of Science, Engineering and Technology (Kansas City, MO) has donated several high quality images of journal articles, if available, at no charge for the award program

**Award Committee Members
2019 – 2020**

Anthony G. M. Barrett, F.R.S. (Imperial College of Science, Technology and Medicine)
 Michael Bowers (University of California, Santa Barbara)
 Carmen Giunta (Le Moyne College)
 Harry Gray (Caltech)
 Dudley Herschbach (Harvard)
 Peter Morris (Science Museum London, retired)
 Amos Smith (Penn)
 Jeffrey I. Seeman, Committee Secretary (Non-voting) (University of Richmond)

Finances and Donations

- The plaques cost ca. \$400 each including artistic design costs and shipping to the USA. Shipping to Europe is another \$75 - \$100.
- Initial funding
 - \$10K from ACS DAC Innovative Grant
 - \$10K from ACS Corporate Associates
 - \$6K from ACS DAC Innovative Grant for Local Section travel
 - Funds from individual donors (donations continue to this day)
- HIST currently provides 50% matching to an annual donation (individual donor, \$1500/year; HIST, \$750/year).
- Annual costs ca. \$1700 - \$2200/year.
- In 2020, HIST accepted a donation from Jeffrey I. Seeman in the amount of \$16,500 which will be 50% matched by HIST over a 16-year period beginning in 2020. With this donation, HIST has guaranteed funding for the CCB award program up to and including its 25th year.
- As of August 5, 2021, \$16,595.56 is available for the plaque program (excluding travel, see bullet statement immediately below). A \$60 reimbursement is due from the University of Manchester.
- Based on the latest update available for HIST Treasurer Vera Mainz, there is \$4103.16 available for travel support for local section and related representations (ACS Innovative Grant Program).

Website

The HIST website contains high quality images of all the plaques and much supplementary information, including photographs of many awards ceremonies, ceremony agenda, and related materials.

http://www.scs.illinois.edu/~mainzv/HIST/awards/citations_chem-breakthroughs.php

The CCB award program's website is exceptional and expanding, thanks to the continuing excellent work of Vera Mainz. The website is organized by award year. Originally, there was only a table of all award winners for each year (from 2006 when the first awards were presented). From that page, one could and can see the award plaques for each winner as well as the supplementary material associated with that award. In 2014, several new pages were added that provide the visitor with rapid access to the awardees, organized by name OR location OR date of the awardee's publication.

We are fortunate that most of the recipients have provided photographs and other information about their presentation ceremonies, etc. for use on our website.

Continued . . .

CCB Award on the ACS Historic National Historic Chemical Landmarks Program Website

On the “About the ACS Historic National Historic Chemical Landmarks Program” web page, <https://www.acs.org/content/acs/en/education/whatischemistry/landmarks/about.html> the following text and link appears (screen shot):

Citation for Chemical Breakthrough Awards

Since 2006, the Citation for Chemical Breakthrough Award program, administered by the ACS Division of the History of Chemistry, has honored scientific publications, books and patents that have been revolutionary in concept and broad in scope, and that forever changed the face of chemistry. As of 2020, 78 awards have been presented.

In 2020, four awards to five sites were made:

- Imperial College London, for William Henry Perkin's patent on the “lilac or purple color dye” (1856) that began the worldwide chemistry industry
- The Royal Institution (London) and University College, London, for Lord Rayleigh and William Ramsay's discovery of argon (1895)
- The University of Manchester, for H. G. J. Moseley's establishment of the concept of atomic number (1913)
- New York University, for Robert S. Mulliken's discovery of molecular orbital theory (1928)

More information is available on the [HIST Citation Awards](#) webpage.

On the CCB Award's website, the following appears (there were no NHCL awards in 2020):

The **National Historical Chemical Landmarks (NHCL) program**, administered by the American Chemical Society, honors "seminal achievements . . . to chemistry and society in the U.S."

In 2017, two Landmarks were awarded:

- [Infrared Spectrometer and the Exploration of Mars](#)
- [Chlorofluorocarbons and Ozone Depletion](#)

In 2018, one Landmark was awarded:

- [Plutonium-238 Production for Space Exploration](#)

In 2019, three Landmarks were awarded:

- [St. Elmo Brady, the First African-American Ph.D. in Chemistry](#)
- [Innovation in Steroid Medicines at Upjohn](#)
- [The Combination of Gas Chromatography and Mass Spectrometry at Dow Chemical](#)

The first NHCL Landmark was awarded in 1993 for Bakelite: [The World's First Synthetic Plastic](#).

The 2020 award plaques are shown at the very end of this report. Photographs of all plaques are also found on the HIST website under HIST Awards, Citation for Chemical Breakthrough Award. The blue link in the second column of each year's award listing leads the web visitor to that award's plaque.

For the 2020 awards: http://acshist.scs.illinois.edu/awards/CCB-2020_Awardees.php

The 2020 award plaques are shown on the next pages.



Division of the History of Chemistry
American Chemical Society



Citation for Chemical Breakthrough

The Beginning of the Worldwide Chemical Industry



A.D. 1856, 26th August. N^o 1984.

Dyeing Fabrics.

LETTERS PATENT to William Henry Perkin, of King David Fort, in the Parish of Saint George in the East, in the County of Middlesex, Chemist, for the Invention of "PRODUCING A NEW COLORING MATTER FOR DYEING WITH A LILAC OR PURPLE COLOR STUFFS OF SILK, COTTON, WOOL, OR OTHER MATERIALS."

Sealed the 20th February 1857, and dated the 26th August 1856.

PROVISIONAL SPECIFICATION left by the said William Henry Perkin at the Office of the Commissioners of Patents, with his Petition, on the 26th August 1856.

I, WILLIAM HENRY PERKIN, do hereby declare the nature of the said Invention for "PRODUCING A NEW COLORING MATTER FOR DYEING WITH A LILAC OR PURPLE COLOR STUFFS OF SILK, COTTON, WOOL, OR OTHER MATERIALS," to be as follows:—

Equivalent proportions of sulphate of aniline and bichromate of potassa are

Presented to Imperial College London, 2020.

Two different plaques were designed for the Rayleigh-Ramsay publication, based on the chemistry that was performed by each collaborator. This plaque was presented to The Royal Institution (Lord Rayleigh's location). See next page for the plaque presented to University College, London (Ramsay's location).



Two different plaques were designed for the Rayleigh-Ramsay publication, based on the chemistry that was performed by each collaborator. This plaque was presented to University College, London (Ramsay's location). See the previous page for the plaque presented to The Royal Institution (Lord Rayleigh's location).





Division of the History of Chemistry
American Chemical Society

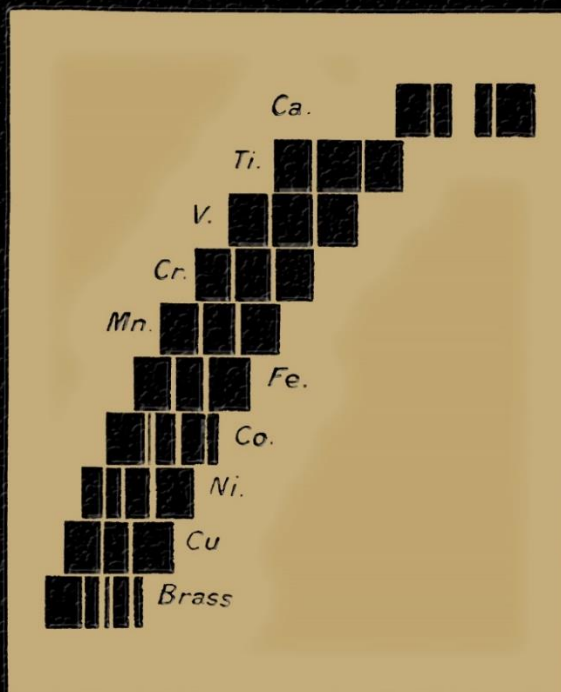
Citation for Chemical Breakthrough



Established the concept of atomic number

Philosophical Magazine Ser. 6, 1913, 26, 1024-1034 and Plate XXIII.

*XCIII. The High-Frequency Spectra of the Elements.
By H. G. J. MOSELEY, M.A.**



Physical Laboratory,
University of Manchester.

Presented to the University of Manchester, 2020.

See the next page for a photograph of the Moseley plaque in its display position at the University of Manchester.



The Moseley plaque is located in the foyer of the Schuster Building (54) at the entrance to the Moseley Lecture Theatre.

Schuster Building
Brunswick Street
The University of Manchester
Oxford Road
Manchester M13 9PL England

We thank Professor Sean John Freeman for these photographs.



Division of the History of Chemistry
American Chemical Society

Citation for Chemical Breakthrough

The Development of Molecular Orbital Theory



Physical Review 1928, 32, 186-222.

THE ASSIGNMENT OF QUANTUM NUMBERS FOR ELECTRONS IN MOLECULES. I

BY ROBERT S. MULLIKEN

ABSTRACT

Quantum numbers, notation, closed shells, molecular states.—The problem of making a complete assignment of quantum numbers for the electrons in a (non-rotating) diatomic molecule is considered. . . . a suitable choice of quantum numbers for a diatomic molecule appears to be one corresponding to an atom in a strong electric field. . . . These quantum numbers may be thought of as those associated with the imagined "united atom" formed by bringing the nuclei of the molecule together. . . .

Configuration	States	Configuration	States	Configuration	States
(As)	2S	(As) (Bp) ²	$^2P_{1/2}, ^1P$	(Ap) (Bd)	$^2F_{7/2}, ^2P_{3/2}, ^1F, ^1P$
(As) (Bs)	$^2S, ^1S$	(Ap) (Bp)	$^2D_{3/2}, ^2S, ^1D, ^1S$	(Ap) ² (Bd)	$^4D_{3/2}, ^2D_{3/2}, ^2G_{7/2}, ^2S, ^2D_{5/2}$
(Ap)	$^2P_{3/2}$	(Ap) ² (Bp)	$^4P_{5/2}, ^2P_{3/2}, ^2P_{1/2}, ^2P_{1/2}, ^2S$	(Ap) ² (Bd)	$^2F, ^2P_{3/2}, ^1F, ^1P$
(Ap) ²	$^2S, ^1D, ^1S$	(Ap) ² (Bp)	$^2D_{5/2}$ or $^2S, ^1D, ^1S$	(Ad)	$^2D_{3/2}$
(Ap) ³	$^2P_{3/2}$	(Ap) ² (Bp) ²	$^2S, ^2S, ^1S, ^2D_{3/2}, ^2S, ^1G, ^1D, ^1S$	(Ad) ²	$^2S, ^1G, ^1S$
(As) (Bp)	$^2P_{3/2}, ^1P$	(Ap) ² (Bp) ²	$^4P_{5/2}, ^2F_{7/2}, ^2P_{3/2}, ^2P_{3/2}, ^2P_{1/2}$	(Ad) ³	$^2D_{3/2}$
(As) (Bp) ²	$^4S, ^2S, ^2D_{3/2}, ^2S$	(Ap) ² (Bp) ²	$^2D_{5/2}, ^2S, ^1D, ^1S$	(As) (Bd)	$^2D_{3/2}, ^1D$

WASHINGTON SQUARE COLLEGE,
NEW YORK UNIVERSITY,
April 30, 1928.

Presented to the Department of Physics, New York University, 2020.

Multidisciplinary Program Planning Group (MPPG) updates & talking points for MPPG Reps

Jennifer Maclachlan, Communications & Outreach Subcommittee Chair,
MPPG
pidgirl@gmail.com
August 19, 2021



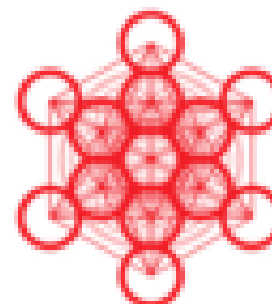
2022 Kavli Emerging Leader Awards



Submission Period

August 11 - October 15, 2021

- Nominations are welcome for both the Spring 2022 and Fall 2022 lectures.
- Winners will be notified by November 1, 2021
- The lecturer must be no more than 10 years removed from earning their Ph.D.
- The lecturer must be less than 40 years of age as of the lecture date
- The nomination must be approved by the respective Committee or Division Chair



THE
KAVLI
FOUNDATION

Visit www.acs.org/mppg for more information.

Thematic Programming Reports



Thematic Programming Reports

2022 Fall – Chicago, IL

Theme: Sustainability in a Changing World

Organizer: Jillian Goldfarb

Presenters: Ed Brush, Jane Wissinger

2023 Spring – Indianapolis, IN

Theme: Crossroads of Chemistry

Organizers: Kevin Brown & Chris Welch

2023 Fall – San Francisco, CA

Harnessing the Power of Data

Organizer: Kennie Merz

2024 Fall – Denver, CO

Elevating Chemistry

Organizer: Debbie Crans

Thematic Programming Report



Spring 2025 Ideas

Transformative power of chemistry

"Quality of Life" (human health, human condition, global health, Environment, environmental response)

Fueling our lives [fuel, energy, water and oceans, fires (firefighting foams)]

Disaster mitigation/prevention, lessons learned about the pandemic

Development of materials. How can you make materials better, higher performance

Contributions to make a life better

Chemistry can play a role in digital twins?

Fall 2025 Ideas

Chemistry in Service to Society

Education, Scientific Literacy, Outreach

Public Interest or good, Chemistry for Congress (Something to talk with legislators) Government funded, public funding impact. Impact of research of NIH, CDC, NSF, DARPA, NASEM

Teaming policy and innovation, Policy driven innovation,, Policy is the mother of invention, Policy design and food/ regulatory, (FDA)

Translation from academic lab to the government lab - IP; technology transfer. How industry and academia can be better connected

Chemistry rises, diversifying science, how science can help