HIST Executive Committee Meeting, August 20, 2017
Grand Hyatt Washington, Washington, DC; Lincoln Boardroom

The meeting started at 5pm.

Attending: Vera Mainz, Dan Rabinovich, Nick Tsarevsky, Carmen Giunta, Mary Virginia Orna, Seth Rasmussen, Art Greenberg
Visiting: Joe Gal, Tom Strom, Janan Hayes

1) **Welcome and announcements**, Dan Rabinovich (Chair-elect, acting for Ron Brashear)
Dan asked all attending to thank Seth Rasmussen for all his service as program chair. Nick Tsarevsky will be replacing Seth, starting with the New Orleans Spring 2018 meeting. Nick asked if Seth had any good resources for his upcoming questions. Seth said it was his opinion that Seth's email would be the best resource.

2) **Secretary-Treasurer's Report**, Vera Mainz
   a. Minutes of the April 2, 2017, Executive Committee meeting were presented for approval at the August 20, 2017 meeting. It was approved unanimously.
   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 6% in 2014 and 2015, 5% in 2016. See the summary below. The 2017 HIST Award symposium takes place in Spring 2018. The 2018 HIST Award should take place in Fall 2018, as usual.

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	$ 912.54	

	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	$ 6,218.05	$ (7,286.86)	$(1,068.81)
2017	$ 2,412.54	$ -	$ 2,412.54
TOTALS	$ 27,879.54	$ (23,399.73)	$ 4,479.81
	Available	$ 6,023.57	

d) In a general way HIST is doing well. There are $101,865.21 of unobligated funds as of August 15, 2017. There are $43,849.42 in obligated funds, see table below.
e) Treasurer's Report. The Quicken summary of income/expense for 2017 to date is attached.

TOTAL OBLIGATED FUNDS as of 8/15/2017

Citations Travel	$	4,173.16
Citations	$	2,049.61
Archives IPGA + James J. Bohning Memorial Fund	$	2,630.44
StopGap Funding	$	3,800.00
MVO Nat Inv IPGA	$	265.08
Past Pres IPGA	$	2,715.14
SERMACS IPGA	$	2,222.30
HIST Award (Contributions + Dividends)	$	6,023.57
See and Be Seen	$	1,500.00
Fontani Book Fund - Fontani HIST membership	$	250.00
Past Pres	$	2,715.14
HIST Award Symp Sp+F2018	$	1,000.00
HIST - Cuba 2018	$	1,000.00
HIST - Ladies in Waiting	$	1,000.00
Ladies in Waiting IPGA	$	4,500.00
Video Archive IPGA	$	504.98
Cuba 2018 IPGA	$	7,500.00
	$	**43,849.42**

BANK BALANCE as of 7/31/2017		
Checking account	$	45,220.96
Total checks not cleared	$	(30.00)
Deposits not cleared	$	-
AVAILABLE - Checking	**$**	**45,190.96**
AVAILABLE - Savings	**$**	**100,523.67**
TOTAL AVAILABLE	**$**	**145,714.63**

TOTAL UNOBLIGATED FUNDS as of 8/15/2017

$ 101,865.21

3) **Report from Program Chair**, Seth Rasmussen
    a) The summary of current and upcoming symposia are attached.
    b) At this meeting we had a 1/2 day session on general papers Sunday. On Monday, there will be a 1/2 day symposium on the 25th anniversary of the National Historic Chemical Landmark (NHCL) program, followed by another 1/2 day session on general papers. Tuesday is the full day symposium on Ladies in Waiting followed by the play *No Belles*. Seth did Tutorial at this meeting.
    c) New Orleans Spring 2018- This meeting will be Nick's first as program chair without Seth's backup. The symposia are the HIST Award symposium for Jeff Seeman (organized by Joe Gal), Food at the Crossroads (organized by Mary Virginia), and a general session. The Food at the Crossroads symposium programming requires Jeff's symposium to be on Sunday or Tuesday, so Jeff and Joe need to be told this. The HIST Tutorial could be the lead-off for the Food at the Crossroads symposium. Mary Virginia suggested that since her co-organizer, Al Bopp, is a summer employee of the USDA in New Orleans, we ask him to find someone to give the tutorial. There was an agreement to cover that person's registration.
    d) Boston Fall 2018 - This meeting is still light for programming. We have the 2018 HIST Award symposium (1/2 day); Chemists with Disabilities (1/2 day) and David Lewis should be asked if he is willing to organize it for this meeting; Past President (1/2 day), Roger Egolf organizer; general sessions.
    e) Orlando Spring 2019 - The next Archaeological symposium is being organized by Seth and Mary Virginia. They are still working on it and don't know how big it will be. Dan attended the IUPAC World Congress and was asked about organizing a 1/2 day symposium on the process of Naming New Elements (Past Fermium rules). The consensus was that it would be appropriate in Orlando, so Dan will look into organizing it.
    f) San Diego Fall 2019 - HIST Award; 150th Anniversary of the Publication of Mendeleev's Periodic Table (1 to 1-1/2 day), Carmen, Vera and Greg Girolami, organizers; Pioneers of Magnetic resonance - 1 day - Vera and Tom organizers.
    g) Philadelphia Spring 2020 - Nick and Seth are co-organizers of a History of polymer science symposium (1-1/2 days). The next Past President symposium (1/2 day), honoring Darryl Busch is planned, Jan Hayes organizer.
    h) San Francisco Fall 2020 - The next Past President symposium (1 day), honoring Glenn Seaborg is planned, Jan Hayes organizer. Seth will organize a symposium (1 day) on the 10th Anniversary of Springer Briefs. There should be a HIST Award symposium (1/2 day).
    i) A joint SHAC, CHF, and HIST, held at CHF is being planned for October 2018. The topic and the date are still being discussed. SHAC meetings are usually on a single topic so that will likely be the format for this meeting.
    j) Early one-day registration for member or someone who qualifies for membership is $220 at this meeting, with non-chemist one-day registration at $110.
    k) Seth reported that general issues with ACS staff were much, much better this meeting. He didn't write a formal report for M&E from problems at the last meeting, but they are at least responding fairly quickly to his requests. ACS has

added another layer of bureaucracy to room reservations for this meeting. Historically, you reserve the room, and then they confirm, and then you do final sign off; Just for this meeting, Seth had to verbally confirm 24 hours ahead for every day for non-technical rooms (such as Exec. Committee meeting room, No Belles venue). We don't reserve technical sessions as that is automatically taken care of by MAPS. The verbal confirmation took 30 minutes and Seth could not get the staff member to state why this was necessary - standard policy or policy going forward. In the last year, Seth has felt that even the lowest level ACS staff he has dealt with act as though they can tell program chairs what to do but won't state the policy requiring the action.

l) Symposium organizers need to make it clear to their speakers that they are responsible to submit their own abstracts unless it is very clear that the symposium organizer will do so. If the speaker is a non-chemist, then yes, the organizer should likely do the abstract submission. But, particularly if it is not an invited speaker, just make it clear who is responsible. There were some problems with a submissions of abstracts for a symposium at this meeting.

m) As of this meeting, ACS no longer supports the VGA connection on a laptop. Going forward the computer being used needs an HDMI connector - no other option. They will provide a cable. Seth noted that there is no HIST laptop - he has been using his personal laptop when necessary at the meetings.

n) Seth doesn't know if the MAPS Advisory Board has been dissolved or not. It has not met for at least the last year. With Robin taking over at M&E, the status of the advisory board is unknown. ACS may think it is all working fine or don't care to work with an advisory board.

o) Seth was Program Chair for the Great Lakes Regional Meeting (GLRM) this summer in Fargo. Historical activities were a raging success. The HIST Symposium was very successful and an historical stamp display, arranged locally (there were about 150 feet of stamp displays along one wall, with flyers, etc.), was very successful. Seth held a town hall about how HIST could serve the ACS community at regionals meetings; Response was that they overwhelmingly loved the stamp display, but glassware, or something else on display would be good. They did request at least one presentation associated with the display. A fair number of board and ACS leadership were there and happy with the HIST programming. There was also a suggestion for a symposium or resource link on how to do historical research for those who don't currently do historical research but would like to get started.

p) The book inspired by the HIST symposium at the 2015 Pacifichem, *Igniting the Chemical Ring of Fire*, is formally in production. E-publication should happen in late 2017, with hardcopy publication in March 2018. See http://www.worldscientific.com/worldscibooks/10.1142/q0133

q) This meeting marks Seth's last meeting as program chair. Nick Tsarevsky has been shadowing him for several meetings and is prepared to take over. Seth will continue to maintain the HIST facebook page. Note: we have just under 2000 followers on the HIST Facebook page.

r) There was a general discussion as to whether Seth should continue to attend the Exec. Committee meetings. Carmen recommended that Ron appoint Seth as an

at-large member, per the Bylaws. This was approved. Vera moved, the motion was seconded, and it was unanimously approved to give a certificate of appreciation to Seth for his many years of service. Vera will take care of that.

s) The next Pacifichem will be in 2020. We should start thinking about a topic and possible organizers now, since there has to be a certain number from other countries. The organizers of a possible symposium have to be from three different countries.

t) The first Atlantichem is happening in January 2018, and we didn't have much warning about programming.

u) Mary Virginia had some questions about giving honoraria to speakers. Jan said members of the Society may not receive honoraria for giving a talk at a meeting. Vera said we should be able to do so, especially if the person is not a member of ACS. Jan suggested calling it a preparation expense when reporting. Mary Virginia also asked about one-day registration for both members ($220) and non-members ($110). It was noted that Vera needs to post the report for the *Ladies in Waiting* IPG award immediately in order to allow Mary Virginia to qualify for the IPG for New Orleans.

4) **Report from Councilors**, Mary Virginia Orna and Roger Egolf (report attached)

a) Roger reported that in M&E the big topic is whether Thursday programming should exist, with a possible test in Atlanta in 2021. The new executive vice-president for membership had other ideas, such as lots of posters in poster sessions and a different way of organizing programs. She comes from a society that does programming in a different way (lots of posters and only a few invited talks). No one in M&E seemed interested in those ideas. No mention was made of the issue of laptops ("a pilot initiative made by M&E for the Washington 254th ACS National Meeting to provide Windows-based laptop computers in all technical session meeting rooms"). This initiative would have required all oral presenters to bring their presentation files on a PC-formatted USB drive. Shortly after releasing the notice, they received feedback from speakers noting areas of concerns, which include software capability and industry protocols that forbid the use of USBs; security with ensuring non-transfer of files; and appropriate virus protection being put in place. The decision was reversed until these concerns have been fully addressed with ACS division leadership, speakers, and vendors. Jan said in CCPA it was mentioned about divisions being differentially charged for AV cost, and that should be checked. According to M&E, audio-visual (AV) costs are driving the costs of the meeting (so they say). The few times HIST has asked for an audio patch for movie or video is the only time we have been charged. It was reported that some divisions are programming more and more oral sessions (up to 12 simultaneous sessions), so they are considering penalizing those divisions in some way for that if they don't start making some changes. It was noted that in San Francisco Spring 2017, HIST had the highest percentage of no shows and withdrawn papers but it was an anomaly.

b) Mary Virginia reported from DAC. DAC asked what divisions need help with. In the annual report, HIST asked about e-voting and credit card charges and there was an indication that they are working on it. They are changing the rules and

criteria on IPGs: 1) how is the IPG going to enhance the overall divisional member benefits and increase divisional membership; 2) is the effect sustainable beyond a single year; and 3) the IPG final report will include a requirement for a poster at Sci-Mix, registered and presented within year following the issuing of the final report. DAC would provide a template for the poster, with any new IPG's from the division be embargoed until that was done. DAC was also planning to split IPG's from request for strategic planning support. The rule now is that a Division can submit 2 IPG's in one year, including a request for divisional strategic planning. Now the division can submit 2 IPG's proposals plus one for strategic planning. At the moment, DAC is not very positive about requests for new divisions. Mary Virginia noted that HIST was listed with the list of divisions with of no responses to request new divisions of Materials and Space. We noted that we did respond and she will check into that. Mark Carpenter reported that ACS is redoing the ACS website and highlighting "What's trending at ACS?" They are asking divisions to feed content into acs.org. Vera said she did not have the skills to do it. Another issue that came up is that ACS wants ACS branding to include divisions and local sections, to unify the ACS look. They want each division to have an ACS conforming logo, superseding the current division logos. Susan Morrissey said divisions will be strongly encouraged to use ACS branding but they won't force the issue.

5) **Report from Chair-Elect**, Dan Rabinovich; no report.

6) **Report from Past Chair**, Gary Patterson; no report.

7) **Report from the HIST Awards Subcommittee**
   a. Jury Committee for 2018 HIST Award is established with Gary as chair, Joe Gal, John Sharkey, Christoph Meinel, and Ernst Homburg.
   b. 2016 Outstanding Paper Award to Helge Kragh - *From Cosmochemistry to Fuel Cells*. The Award committee asked about giving Honorable Mentions. Two papers are exiting award rotation this year. Roger thought not, as it likely happens every year. There is not a huge number of papers under consideration, so after discussion, the consensus is not to change.
      Jury Committee for 2017 Outstanding Paper Award - Ron Brashear
   c. CCB 2017 Awards - Vera Mainz. The 2017 awards have just been announced and are posted on the website. See attachments.

8) **Report from Archivist**, John Sharkey
   The finding tool is up-to-date.
   The Exec. Committee requested Ron to send John an official letter of appreciation from the Executive Committee for all of his work in creating and maintaining the finding tool.
   A question was raised as to whether the finding doc is on the Chemical Heritage Foundation (CHF) website? If it is, there was a request to link to it via the HIST website. If not, Vera was asked to place a link to the finding doc directly on the website.

9) **Report from Bulletin Editor**, Carmen Giunta

a) This report is similar to that given in the spring.
b) Volume 42(1) copies are available at the sessions this week. Volume 42(2) is not full yet, (there are 3 or 4 papers in the can, and 2 more well on the way), but it should go to layout by end of September, which would keep us on track for our two issues/year target. We continue to get papers from stalwarts such as David Lewis and submissions from new people, both of which are good and healthy trends. Double issue 41(1,2) got us back on track with respect to publication schedule.
c) We need a book review editor. Ron has done it the last couple of years and can't continue because of other responsibilities. An historian of chemistry might be a good person to approach. We would want the proper historian of science as we'd want someone who appreciates what chemists would be interested in reading
d) Dan asked if we could put up a link on the HIST website to an entire Bulletin issue. Vera noted she could add such a link on the table of contents on the top and was requested to do so.
e) Nick reported that the MPPG chair raised a question of getting all divisional journals under the ACS rubric - likely part of the branding effort. Carmen recommended that if we get a more formal approach from Pubs, we should discuss this issue then, including asking CHED how it how worked out for them.

10) **Report from Historian**, Gary Patterson
The biography for Jeff Seeman is now complete and he is working on the biography for Helge Kragh, the new OPA winner.

11) **Report from the Alternate Councilors,** Art Greenberg and Joe Jeffers
a) MPPG Meeting Themes Update - No changes from the previous list
b) They are looking for a thematic programming committee chair, for a space theme. Reggie Hudson was suggested as a possibility.

12) **OLD BUSINESS:**
a. ACS Fellows Program- We were unsuccessful with Seth's nomination this year. Ned needs to request the feedback on the nomination and resubmit.
b. HIST Division 100th Anniversary - Formation of Committee to write Division history
c. HIST Division 100th Anniversary - Formation of Planning Committee

13) **NEW BUSINESS:**
a) Philosophy of Chemistry - Dan raised the possibility of a new subdivision of HIST on philosophy of chemistry. 1) A paper from Eric Scerri was passed around (reference); 2) interest group; 3) no costs. It would be a way for interested people to find themselves, recruit new members. The question raised was is there a critical mass of people asking for it? Seth said there is a fairly large international group, the International History, Philosophy & Science Teaching Group. We mention the conference of another group, the International Society for the Philosophy of Chemistry, in the *Bulletin*. The bylaws don't talk about forming a subdivision. Our current bylaws refer to the Archeological subdivision but

doesn't talk about forming a new subdivision. Instead of changing the bylaws, we could discuss this in terms of an interest group. The suggestion was to post a description on the HIST webpage and facebook page and see how much interest there is. Dan was requested to put together the text to be posted.

b) Mary Virginia stated that we need a membership drive for soliciting new members. Vera said she could send brochures to HIST members attending regional meetings so they could be distributed. We should have a history of HIST poster (overview of history of division which ends with how you become a member) that should be given at every SciMix. It was suggested that HIST session chairs should have brochures and proactively pass them out. Vera was asked to send a copy of brochure to Seth to post on facebook page; Roger suggested we ask HIST members speak to their local sections. Roger volunteered to put together some text to distribute to local sections. Joe Gal said his local section is having an historical presentation later this month, so Vera should send brochures for him to pass out. Roger said free copies of the *Bulletin* could also be used as enticements.

Meeting ended at 7:30pm.

Appendices

Appendix 1: Quicken Summary, Income/Expenses to date

Appendix 2: Future Symposia Schedule

Appendix 3: Councilors' Report from Washington DC

Appendix 4: CCB Award Report

Appendix 5: Report from MPPG - Thematic Programming

2017 Itemized Categories Report - Year To Date

1/1/2017 through 8/15/2017

Date	Account	Num	Description	Memo	T...	Clr	Amount
INCOME							**38,387.04**
Allocation ACS							**12,800.61**
Other Allocation ACS							**12,800.61**
3/17/2017	Busey...	DEP	ACS/EFT Remittan...	2017 Allocation		R	12,800.61
Bulletin - Lib							**540.00**
1/1/2017	Busey...	DEP	EBSCO - Ck#263...	2017 Tokyo Kogyo U		R	40.00
1/1/2017	Busey...	DEP	EBSCO - Ck#263...	2017 Bibl Hist-Valencia		R	50.00
1/30/2017	Busey...	DEP	EBCSO - Ck#2649...	2017 Univ New Hampshire		R	40.00
1/30/2017	Busey...	DEP	EBCSO - Ck#2653...	2017 Roy Soc Chem		R	50.00
2/11/2017	Busey...	DEP	... IPG - Brazil	IPG - Brazil		R	50.00
3/23/2017	Busey...	DEP	Univ Of Cincinnati ...	2017		R	40.00
3/23/2017	Busey...	DEP	Linda Hall Library	2017		R	40.00
3/23/2017	Busey...	DEP	Cornell University ...	2017		R	40.00
3/23/2017	Busey...	DEP	Lehigh University	2017		R	40.00
3/29/2017	Busey...	DEP	... Istituto Museo di St...	2017		R	50.00
3/29/2017	Busey...	DEP	... Museum Boerhaave	2017		R	50.00
4/12/2017	Busey...	DEP	Vera Mainz Ck#4392	2017 - Museum Boerhaav...		R	50.00
Counc Trav Reim							**2,709.82**
ACS							**2,709.82**
5/18/2017	Busey...	DEP	ACS/EFT Remittan...	Reimbursement San Fran ...		R	2,709.82
Dividend							**2,437.02**
HIST Award							**2,437.02**
1/1/2017	Busey...	DEP	Vanguard Wellesle...			R	631.82
1/1/2017	Busey...	DEP	Vanguard Wellingt...			R	892.66
4/12/2017	Busey...	DEP	Vanguard Wellesle...			R	217.16
4/12/2017	Busey...	DEP	Vanguard Wellingt...			R	210.83
7/3/2017	Busey...	DEP	Vanguard Wellesle...			R	242.71
7/3/2017	Busey...	DEP	Vanguard Wellingt...			R	241.84
Donations							**3,675.00**
CCB							**1,200.00**
7/3/2017	Busey...	DEP	Jeff Seeman Ck#0...	CCB 2018		R	1,200.00
HIST Award							**1,500.00**
4/12/2017	Busey...	DEP	Vera Mainz - Ck#3...	2017 - Jeff Seeman		R	1,500.00
OPA							**375.00**
4/12/2017	Busey...	DEP	Vera Mainz Ck#4395	2016 OPA		R	375.00
Perception-SF2017							**600.00**

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1/1/2017 through 8/15/2017

Date	Account	Num	Description	Memo	T...	Clr	Amount
3/29/2017	Busey...	DEP	... McGrawHill Educat...	Rabinovich Perceptions S...		R	600.00
Dues Income							**7,552.00**
ACS							**7,552.00**
3/13/2017	Busey...	DEP	ACS/EFT Remittan...	June-Dec 2016		R	7,552.00
Grants & Awards							**7,900.00**
Cuba 2018							**7,500.00**
6/30/2017	Busey...	DEP	ACS/EFT Remittan...			R	7,500.00
Perceptions Spr2017							**400.00**
5/22/2017	Busey...	DEP	... Anton Parr - Maxin...			R	400.00
Int Inc							**105.39**
1/31/2017	Busey...	DEP	Interest			R	15.85
2/28/2017	Busey...	DEP	Interest			R	13.87
3/31/2017	Busey...	DEP	Interest			R	15.36
4/30/2017	Busey...	DEP	Interest			R	13.82
5/31/2017	Busey...	DEP	Interest			R	16.25
6/30/2017	Busey...	DEP	Interest			R	14.87
7/31/2017	Busey...	DEP	Interest			R	15.37
Royalties							**667.20**
4/12/2017	Busey...	DEP	... Oxford University ...	Chemistry & Science Fiction		R	1.91
				Chem Tech Antiquity		R	91.47
				Pioneers Quantum Chemi...		R	32.62
				Characters in Chemistry		R	22.96
				Arch. Chem. VIII		R	7.86
				Found Physcial Org Chem		R	277.18
				Sputnik to Smartphones		R	232.83
				Science History		R	0.37
EXPENSES							**-25,983.11**
Award							**-6,270.00**
CCB Travel							**-255.00**
5/22/2017	Busey...	EFT	Guillermo Restrepo	CCB Innsbruck		R	-255.00
Ladies in Waiting							**-3,000.00**
3/23/2017	Busey...	1259	Portal Theatre	1/2 payment in advance		R	-3,000.00
MARM 2017							**-1,000.00**
6/20/2017	Busey...	1274	Roger Egolf	MARM 2017		R	-315.57
6/20/2017	Busey...	1275	Mary Virgina Orna	MARM 2017		R	-327.21
6/20/2017	Busey...	1276	John B. Sharkey	MARM 2017		R	-327.22

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1/1/2017 through 8/15/2017

Date	Account	Num	Description	Memo	T...	Clr	Amount
6/20/2017	Busey...	1277	James Ealy	MARM 2017 - registration			-30.00
Perceptions SF17							**-2,015.00**
4/14/2017	Busey...	1268	Bernadette Bensau...	Travel San Francisco Spri...		R	-1,000.00
4/17/2017	Busey...	1270	Joao Paulo Andre	Registration SF 2017		R	-535.00
4/26/2017	Busey...	1271	Marjorie Caserio	Travel SF 2017		R	-173.70
4/26/2017	Busey...	1272	Gary Patterson	CINF Lunch, Student Mem...		R	-306.30
Bank Chrg							**-45.06**
Bank EFT Fee							**-9.21**
3/29/2017	Busey...	DEP	... Museum Boerhaave			R	-9.21
PayPal Transaction Fee							**-35.85**
2/11/2017	Busey...	DEP	... IPG - Brazil			R	-1.75
3/29/2017	Busey...	DEP	... McGrawHill Educat...			R	-17.70
3/29/2017	Busey...	DEP	... Istituto Museo di St...			R	-2.25
3/29/2017	Busey...	DEP	... Museum Boerhaave			R	-2.25
5/22/2017	Busey...	DEP	... Anton Parr - Maxin...			R	-11.90
Bulletin							**-10,895.00**
Other Bulletin							**-10,895.00**
1/30/2017	Busey...	1253	Agnes Soderbeck	No. 41(1,2)		R	-1,460.00
4/12/2017	Busey...	1262	Le Moyne College	Bulletin expenses		R	-8,000.00
6/6/2017	Busey...	1273	Agnes Soderbeck	No. 42(1)		R	-1,435.00
Counc Trav Exp							**-3,387.27**
4/12/2017	Busey...	1266	Roger Egolf	San Francisco Spring 2017		R	-1,669.86
4/14/2017	Busey...	1269	Mary Virginia Orna	San Francisco Spring 2017		R	-1,717.41
Election							**-204.00**
Other							**-204.00**
3/5/2017	Busey...	1258	... Vera Mainz	Surveymonkey subscription		R	-204.00
Guest Reg							**-240.00**
7/5/2017	Busey...	1278	... ACS/Invoice - 167...	Perceptions - Bensaude-Vi...		R	-110.00
				Perceptions - Shepard-Barr		R	-130.00
Nat Mtg Trav							**-3,485.70**
4/12/2017	Busey...	1261	Seth Rasmussen	San Francisco Spring 2017		R	-1,000.00
4/12/2017	Busey...	1263	Nicolay Tsarevsky	San Francisco Spring 2017		R	-1,000.00
4/12/2017	Busey...	1264	Joe Jeffers	San Francisco Spring 2017		R	-500.20
4/12/2017	Busey...	1265	Daniel Rabinovich	San Francisco Spring 2017		R	-414.90
4/14/2017	Busey...	1267	Vera Mainz	San Francisco Spring 2017		R	-570.60
Office							**-405.00**
Tax Prep							**-405.00**

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Date	Account	Num	Description	Memo	T...	Clr	Amount
3/1/2017	Busey...	1257	Daniel E. Holder A...	2016 Tax Prep Form 990-EZ		R	-405.00
Other Travel							**-946.82**
1/30/2017	Busey...	1254	Roger Egolf	2017 Leadership Insti.		R	-490.71
2/7/2017	Busey...	1255	Ronald Brashear	2017 Leadership Inst.		R	-456.11
Postage							**-104.26**
Election							**-39.90**
3/5/2017	Busey...	1258	... Vera Mainz	USPS		R	-37.60
				USPS		R	-2.30
Office							**-45.61**
3/5/2017	Busey...	1258	... Vera Mainz	USPS - stamps		R	-28.20
				USPS - councilor reimb ACS		R	-2.93
				USPS - councilor reimb ACS		R	-3.06
				USPS - postage		R	-4.26
				USPS - past chair pin		R	-7.16
Separates							**-18.75**
3/5/2017	Busey...	1258	... Vera Mainz	USPS - separates to Philly		R	-18.75
TRANSFERS							**0.00**
Busey Checking							**0.00**
4/27/2017	Busey...		SAVINGS			R	-5,000.00
5/3/2017	Busey...		SAVINGS			R	5,000.00
Busey Savings							**0.00**
4/27/2017	Busey...	TXFR	SAVINGS			R	5,000.00
5/3/2017	Busey...	TXFR	SAVINGS			R	-5,000.00
					OVERALL TOTAL		**12,403.93**

FUTURE HIST SYMPOSIA

Meeting Dates	Site	HIST symposia	HIST cosponsored symposia and Notes
August 20-24, 2017	Washington DC	(1) *Ladies in Waiting for Nobel Prizes. Overlooked Accomplishments of Women Chemists* (Vera Mainz and Tom Strom) [***Tues Full day***] [co-sponsors: WCC] (2) *History as Outreach: Celebrating the ACS Landmarks Program's 25th Anniversary* (Vera Mainz and Alan Rocke) [***Monday AM***]	[Chemistry's Impact on the Global Economy] **HIST Tutorial:** Seth
March 18-22, 2018	New Orleans	(1) *HIST Award Symposium Honoring Jeff Seeman* (Joe Gal) [***Full day***] (2) *Food at the Crossroads: Water, Energy, Environment, Technology* (Mary Virginia Orna) [***1.5 days***]	[The Food, Energy, Water Nexus]
August 19-23, 2018	Boston	(1) *HIST Award* [***Tues pm***] (2) *Disabled Chemists* (David Lewis) [***1/2 day?***] [co-sponsor: Chemists with Disabilities Committee?]	[Nanotechnology]
Mar 31-Apr 4, 2019	Orlando	(1) *Archaeological Chemistry: Art and Archaeology in the Ancient and Medieval World* (Seth Rasmussen and Mary Virginia Orna) [***2+ days?***]	[Chemistry for New Frontiers]
August 25-29, 2019	San Diego	(1) *HIST Award* [***Tues pm***] (2) *150 Years of the Periodic Table* (Carmen Guinta, Vera Mainz, and Greg Girolami) (3) *Pioneers of Magnetic Resonance* (Vera Mainz and Tom Strom)	[Chemistry of Water]
March 22-26, 2020	Philadelphia	(1) *History of Polymer Science* (Nick Tsarevsky and Seth Rasmussen) [***1+ days?***] (2) *Past Presidents: Daryl Busch* (Jan Hayes) [***Half day***]	[Macromolecular Chemistry: The Second Century]
August 23-27, 2020	San Francisco	(1) *HIST Award* [***Tues pm***] (2) *The Science and Legacy of Glenn Seaborg* (Jan Hayes) [***Half day***] (3) *Springer Briefs in the History of Chemistry: 10th Anniversary* (Seth Rasmussen)	[Chemistry from Bench to Market]
Future		(2) The History of Chemical Nomenclature (Seth Rasmussen) [***Full day***]	* idea stage

DIVISION OF THE HISTORY OF CHEMISTRY
COUNCILORS' REPORT
American Chemical Society – 254th ACS National Meeting
Washington, D.C.
August 20-24, 2017

1. Actions of the Council

A. Election Results : Elected Committees of Council

By electronic ballot, the Council elected Karl S. Booksh, Mark D. Frishberg, Zaida C. Morales Martinez, and Linette M. Watkins for three-year terms (2018-2020), and Ella L. Davis for a one-year term (2018) on the Council Policy Committee (CPC).

By electronic ballot, the Council elected Michael Appell, Neil D. Jespersen, Mamie W. Moy, Eleanor D. Siebert, and Julianne M.D. Smist for three-year terms (2018-2020) on the Committee on Nominations and Elections (N&E).

By electronic ballot, the Council elected Mitchell R. M. Bruce, Jetty Duffy-Matzner, Martha G. Hollomon, Diane Krone, and Robert A. Pribush for three-year terms (2018-2020) on the Committee on Committees (ConC).

B. Other Council Actions

Amendments to the ACS Bylaws

A recommendation by the Committee on Membership Affairs that Council approve the Petition on International Chemical Sciences Chapters narrowly failed to achieve the two-thirds majority required to amend the Bylaws. The proposal would have amended Bylaw IX, Section 4, to permit financial support for International Chemical Sciences Chapters and to remove language from the Bylaws prohibiting Chapters from having representation on Council.

Probationary Division of Space Chemistry

The Council defeated a proposal from the Committee on Divisional Activities that it establish a probationary Division of Space Chemistry, effective January 1, 2018.

Change in Local Section Territory

On the recommendation of the Committee on Local Section Activities, the Council approved a petition from the South Jersey Local Section to annex the unassigned and adjacent territory of Ocean County, New Jersey.

Resolutions

The Council passed resolutions in memory of deceased Councilors; acknowledging President Allison A. Campbell's service as presiding officer of the Council; and in gratitude for the officers

and members of the Chemical Society of Washington, the host Section for the 254th National Meeting, the divisional program chairs and symposium organizers, and ACS staff.

2. Highlights from Committee Reports

Nominations and Elections

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

Ballots for the 2017 fall national election will be distributed on September 29, with a voting deadline four weeks later, on October 27. In a change of procedures, all members with an email address on file and eligible to vote will receive an electronic ballot with the option to request a paper ballot. Those members with no email address on file will be sent a paper ballot with the option to still vote electronically. The ACS election vendor, Survey & Ballot Systems, will send three email reminders during the voting period to those who have not voted as of the reminder date.

Budget and Finance

The Society's 2017 Probable 1 Projection calls for a Net from Operations of $25.3 million. This is $2.1 million favorable to the Approved Budget and $1.6 million higher than 2016. Total revenues are projected to be $553.0 million, which is $2.4 million unfavorable to the budget, but 5.0% higher than the prior year. Total expenses are projected at $527.6 million, which is $4.5 million favorable to the budget, and 4.9% higher than 2016.

The Committee considered several program funding requests for 2018, and on its recommendations, the Board subsequently approved funding for the ACS Online Course in Laboratory Safety and the New Faculty Workshop Series for inclusion in the 2018 Proposed Budget and the 2019-2020 Forecast.

Additional information can be found at www.acs.org, at the bottom of the page, click 'About ACS', then 'Financial'. There you will find several years of the Society's audited financial statements and IRS 990 filings.

Washington Meeting Attendance

The theme of the 254th ACS National Meeting was "Chemistry's Impact on the Global Economy." As of Tuesday evening, August 22, attendance was:

Attendees	7,938
Students	2,997
Exhibitors	1, 068
Expo only	475
Guest	426
Total	12,904

Petitions to Amend the Constitution and Bylaws

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than November 29, 2017 to be included in the Council agenda for consideration at the spring 2018 meeting in New Orleans. Contact the Committee on Constitution and Bylaws with any questions or requests for information at bylaws@acs.org

3. HIST Councilors

Mary Virginia Orna is serving her first term as a member of the Divisional Activities Committee (DAC) and the Division Enhancement and Outreach Subcommittee. She was able to report on several changes that will take place in areas of DAC oversight, particularly with respect to the criteria and management of the Innovative Grants Program. She also reported on ACS imminent changes to the website and ACS branding unification.

Roger Egolf is serving his first term as an associate on the Meetings and Expositions Committee and its Technical (Programming) Subcommittee.

Respectfully submitted,
Mary Virginia Orna
Roger Egolf

Citation for Chemical Breakthrough Award Program Update (Including 2016 Award Year)

Jeffrey I. Seeman
Award Committee Secretary

August 14, 2017

Summary

- Eleven years of awards (2006 –2016) have been completed including four awards for the 2016 award year
- 57 CCB Awards presented to date at 65 sites (due to multiple collaborations and locations)
- Status for the 2017 award year: The awards committee has provided its complete ballots and the four awardees have been determined. The plan is to announce to HIST's EC the recipients for 2017 prior to the upcoming Fall ACS National Meeting.
- CCB Awards are plaques only, given to institution from which the research was published
- We provide assistance with and sometimes participation in award ceremonies
- Five award ceremonies were held in the last 12 months
  - Universität Innsbruck, Austria: Flaundler (G. Restrepo represented HIST)
  - Manchester University: Frankland (Robert Anderson represented HIST)
  - Oxford University: Crowfoot (Peter Morris represented HIST)
  - Rice University: Kroto (Held at Fall ACS National Meeting)
  - Académie des sciences, Paris Mark Casida represented HIST)
- Photographs and associated text dealing with the award ceremonies are found on the CCB Award's web pages
- The CCB Award program now has many and an increasing number of links on Wikipedia
- The CCB Award program now has a link and a large description of the program on the ACS National Historic Chemical Landmarks Program

The 2016 awards are listed in the graph below, taken from the CCB Award web site that is housed on the HIST website that is designed and maintained by Vera Mainz.

From the HIST website:

Citations for Chemical Breakthrough Awards

2016 Awardees

NOTE: Text in **COLOR** indicates a "live" link.

Scientists/Inventors	Breakthrough Publication (If text is in color, this is a live link to the plaque.)	Location of Award (If text is in color, this is a live link to photographs and other materials related to the presentation.)
L. Pfaundler	"Beitrag zur Chemischen Statik," *(Poggendorff) Annalen der Physik und Chemie*, **1867**, *131*, 55-85.	Universität Innsbruck, Austria
E. C. Anderson, W. F. Libby, S. Weinhouse, A. F. Reid, A. D. Kirshenbaum, and A. Grosse	"Radiocarbon from Cosmic Radiation," *Science* **1947**, *105*, 576-577.	The University of Chicago
H. Gutowsky, D. W. McCall, and C. P. Slichter	"Coupling among Nuclear Magnetic Dipoles in Molecules," *Physical Review*, **1951**, *84*, 589-590.	University of Illinois at Urbana-Champaign
F. Sanger, S. Nicklen, and A. R. Coulson	"DNA Sequencing with Chain-Terminating Inhibitors," *Proceedings of the National Academy of Science*, **1977**, *74*, 5463-5467.	Medical Research Council Laboratory of Molecular Biology, Cambridge

The 2016 award plaques are shown at the very end of this report. All plaques are also found on the HIST website under HIST Awards, Citation for Chemical Breakthrough Award.

The members of the 2016 Award Committee are listed below and also on the HIST website (with the Award Committee members from the first award year).

Award Committee Members
2016

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)
Amos Smith (Penn)
Joanne Stubbe (MIT)
Jeffrey I. Seeman, Committee Secretary (Non-voting)(University of Richmond)

- The program has received excellent responses in the USA and Europe. To date, no awards have been presented to Asia or South America.
  - Announcements of the call for nominations and of the awardees appear regularly 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 2014, 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

Finances and Donations

- The plaques cost ca. $350 each including shipping to the USA. Shipping to Europe is another $75 - $100 and sometimes considerably more than $100 depending on location.
- 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 (which continues to this day)

- HIST currently provides 50% matching to one annual donation (individual donor, $1200/year; HIST, $600/year).
- Annual costs ca. $1700 - $2200/year.
- Annual income ca. $1800/year.
- On July 12, 2017, I requested an updated financial report from HIST Treasurer Vera Mainz. Based on the latest information she has provided, there is $2453.5 available for the plaque program (excluding travel, see bullet statement immediately below).
- Based on the latest update available for HIST Treasurer Vera Mainz, there is $4428.16 available for travel support for local section and related representation (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.

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.

CCB Award on Wikipedia

In early August 2016, Ron Brashier introduced us to Mary Mark Ockerbloom, Wikipedian in Residence at the Chemical Heritage Foundation. She has volunteered, as part of her outreach role at CHF, to place information about the CCB awards on Wikipedia. She has now placed text on Wikipedia to the CCB award and links on Wikipedia to HIST's website for all the awards presented in 2015 and 2016. For many of these awards, text and links are found in multiple locations due to multiple authors who already have Wikipedia sites. We plan on completing links and text for all CCB awards in early 2018.

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:

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, broad in scope, and which forever changed the face of chemistry.

In 2016, four awards were made:

- L. Pfaundler on the kinetic theory of chemical reactions (1867), to the University of Innsbruck
- E. C. Anderson, W. F. Libby, S. Weinhouse, A. F. Reid, A. D. Kirshenbaum and A. V. Grosse, for radiocarbon dating to estimate the age of organic materials (1947), to the University of Chicago
- H. Gutowsky, D. W. McCall and C. P. Slichter, for the first observation of spin-spin couplings in liquids, a crucial step in transforming NMR spectroscopy into one of the most powerful tools in chemical science (1951), to the University of Illinois
- F. Sanger, S. Nicklen and A. R. Coulson, for DNA sequencing with chain-terminating inhibitors (1977), to the Medical Research Council Laboratory of Molecular Biology, Cambridge, England

The four 2016 award plaques are shown on the next four pages.

Division of the History of Chemistry
American Chemical Society

Citation for Chemical Breakthrough

First observation of spin-spin couplings in liquids,
a crucial step in transforming NMR spectroscopy
into one of the most powerful tools in chemical science.

Physical Review **1951**, *84*, 589-590.

Coupling among Nuclear Magnetic Dipoles in Molecules*

H. S. Gutowsky, D. W. McCall, and C. P. Slichter
University of Illinois, Urbana, Illinois
(Received September 10, 1951)

MULTIPLE nuclear magnetic resonance lines have been reported in several liquids, such as the Sb resonances[1] in aqueous $NaSbF_6$, and the P^{31} and F^{19} resonances[2] in $POCl_2F$, $POClF_2$, and CH_2OPF_2. Suggested interpretations of these effects include hindrance to molecular rotation[1–3] and second-order magnetic dipolar interactions.[4] We feel that new measurements of ours, together with the previously published results,[2] exclude both of the above suggestions, in general, and we would like to propose the hypothesis that the splittings come from a second-order interaction between the nuclear magnetic moments and some magnetic field internal to the molecule.

The interaction that we propose is of the form $A\mathfrak{y}_1\cdot\mathfrak{y}_2$, where A is a constant independent of temperature and H_0. Such a form can actually be obtained from arguments of rotational invariance alone, and thus would result from any form of coupling through molecular magnetic fields.

Presented to the University of Illinois, 2016.

Division of the History of Chemistry
American Chemical Society

Citation for Chemical Breakthrough

Radiocarbon dating to estimate the age of organic materials.

Science, **1947**, *105*, 576-577.

Radiocarbon From Cosmic Radiation[1]

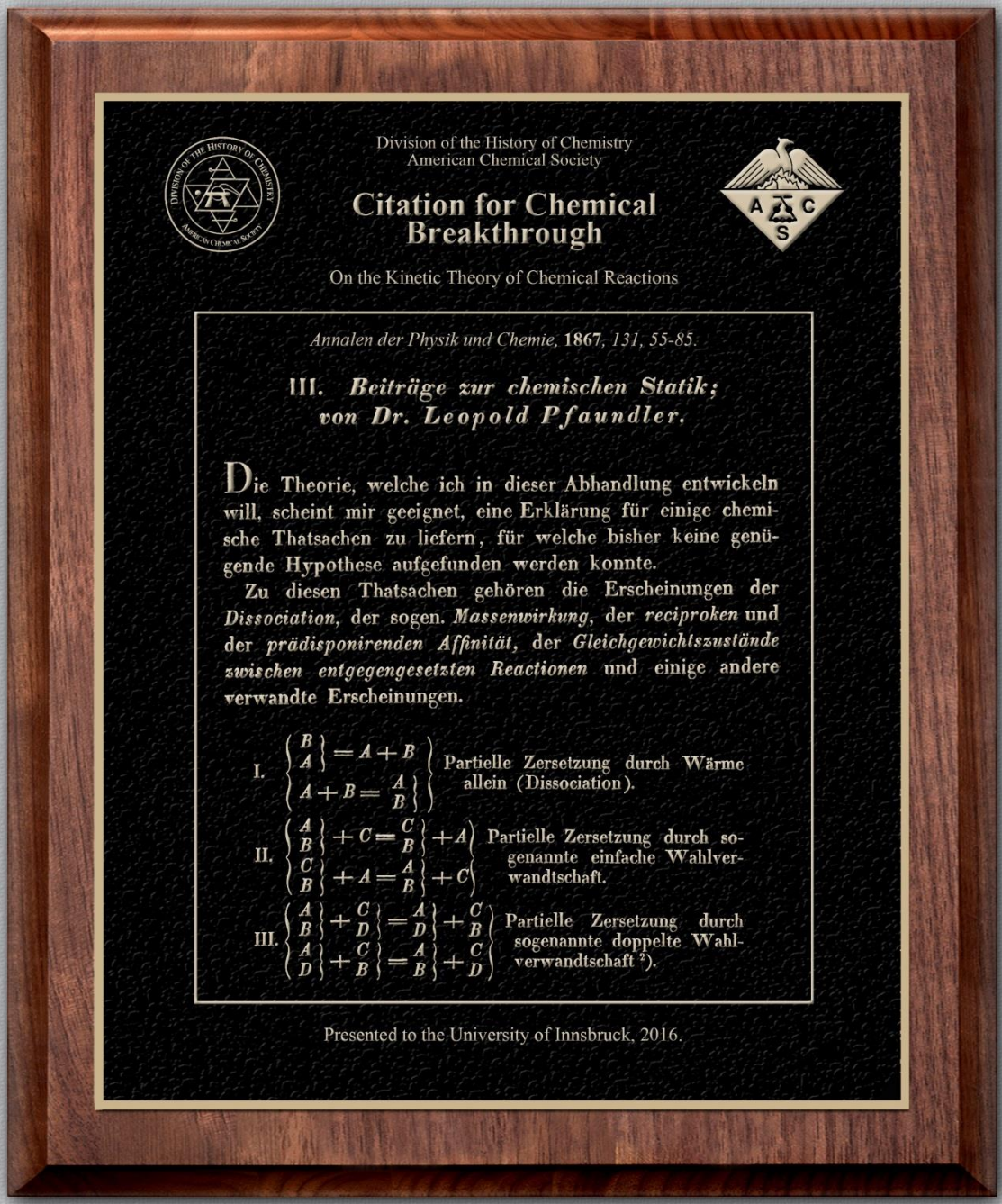
E. C. Anderson and W. F. Libby
Institute for Nuclear Studies and
Department of Chemistry, University of Chicago
S. Weinhouse, A. F. Reid,
A. D. Kirshenbaum, and A. V. Grosse
Houdry Process Corporation,
Marcus Hook, Pennsylvania

Measurements on the enriched biomethane samples established the activity of "living" carbon to be 10.5 disintegrations/minute/gram, in good agreement with the predicted value. On the other hand, enrichment of the petromethane by a factor of 25 failed to show activity beyond the limits of experimental error, in line with the theory that cosmic rays produce our activity.

TABLE 1

Source	Sample No.	Calculated C^{14} enrichment	C^{14} concentration from mass spectrometer (%)	% CH_4 in gas before final purification	Date taken	Total count rate, including background (disintegrations/minute)
Petromethane	I	1	1.04	99.6	10/16/46	340.6 ±1.0
	II	1	1.04	99.6	"	342.6 ±1.0
	III	25	6.55	97.2	1/ 6/47	345.8 ±1.3
Biomethane	III	1	1.04	99.4	12/ 5/46	342.9 ±2.0
	I	10	7.36	93.6	10/17/46	348.7 ±1.3
	VII	32	11.02	99.9	12/ 2/46	364.0 ±1.5
	VIII	260	63.5	97.2	2/10/47	562.0 ±2.9

Presented to the University of Chicago, 2016.


Division of the History of Chemistry
American Chemical Society
Citation for Chemical Breakthrough
On the Kinetic Theory of Chemical Reactions
Annalen der Physik und Chemie, 1867, 131, 55-85.
III. Beiträge zur chemischen Statik; von Dr. Leopold Pfaundler.
Die Theorie, welche ich in dieser Abhandlung entwickeln will, scheint mir geeignet, eine Erklärung für einige chemische Thatsachen zu liefern, für welche bisher keine genügende Hypothese aufgefunden werden konnte.
Zu diesen Thatsachen gehören die Erscheinungen der Dissociation, der sogen. Massenwirkung, der reciproken und der prädisponirenden Affinität, der Gleichgewichtszustände zwischen entgegengesetzten Reactionen und einige andere verwandte Erscheinungen.
I. Partielle Zersetzung durch Wärme allein (Dissociation).
II. Partielle Zersetzung durch sogenannte einfache Wahlverwandtschaft.
III. Partielle Zersetzung durch sogenannte doppelte Wahlverwandtschaft 2).
Presented to the University of Innsbruck, 2016.

Division of the History of Chemistry
American Chemical Society

Citation for Chemical Breakthrough

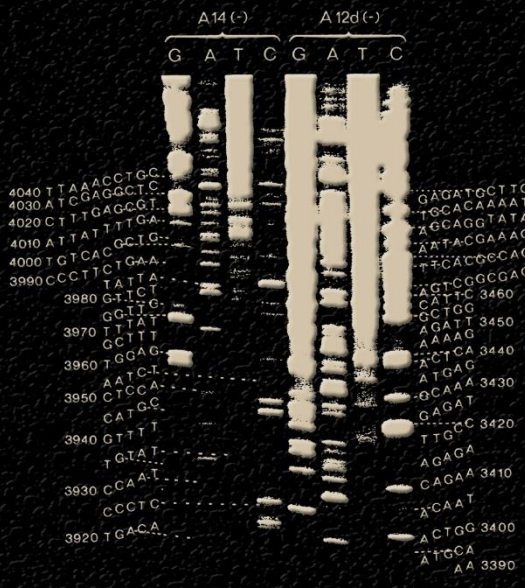
Proceedings of the National Academy of Sciences **1977,** *74,* 5463-5467.

DNA sequencing with chain-terminating inhibitors

(DNA polymerase/nucleotide sequences/bacteriophage ϕX174)

F. SANGER, S. NICKLEN, AND A. R. COULSON

Medical Research Council Laboratory of Molecular Biology, Cambridge CB2 2QH, England



Presented to the
Medical Research Council Laboratory of Molecular Biology, 2016.

NHCL Program Information and Resources

- Take action: Nominate a Landmark
- Landmark designation planning information
- Special procedures for international and local section designations
- Answers to frequently asked questions
- Landmarks program contacts

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, broad in scope, and which forever changed the face of chemistry.

In 2016, four awards were made:

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- F. Sanger, S. Nicklen and A. R. Coulson, for DNA sequencing with chain-terminating inhibitors (1977), to the Medical Research Council Laboratory of Molecular Biology, Cambridge, England

More information is available on the HIST Citation Awards webpage.

2016

Citations for Chemical Breakthroughs		*Citations for Chemical Breakthroughs*			
J Seeman Donation 2016	$1,200.00	*2015* Plaques		$	(2,037.80)
		2016 Plaques		$	(1,586.00)
		2007 Plaques	2 Urey	$	(618.00)
HIST Match to Donation 2016	$600.00	Plaques		$	-
	$ 1,800.00			**$**	**(4,241.80)**
					Difference
Total Available for CCB 5Dec2016	$ 26,359.70	Total Spent for CCB		$	(26,110.14)
					$ 249.56

2017

Citations for Chemical Breakthroughs		*Citations for Chemical Breakthroughs*		
J Seeman Donation 2017	$1,200.00			
HIST Match to Donation 2016	$600.00			
	$ 1,800.00		**$**	**-**
				Difference
Total Available for CCB 2017-08-15	$ 28,159.70	Total Spent for CCB	$	(26,110.14)
				$ 2,049.56

Mainz, Vera V

From: Jeff Seeman <jiseeman@yahoo.com>
Sent: Monday, August 14, 2017 1:26 PM
To: Ronald Brashear; Dan Rabinovich; Gary Patterson; Mainz, Vera V; Seth Rasmussen; Mary Virginia Orna; Roger Egolf; Arthur Greenberg; Joe Jeffers; Carmen Giunta; John Sharkey; Nicolay Tsarevsky
Cc: Tom Strom
Subject: 2017 CCB Awardees

Dear friends,

The four recipients of the 2017 CCB Awards are as follows:

Linus Pauling, Robert B. Corey, and H.R. Branson, "The Structure of Proteins: Two Hydrogen-Bonded Helical Configurations of the Polypeptide Chain," Proceedings of the National Academy of Sciences (USA) **1951**, *37*, 205-2011.

This paper marks the birth of Structural Biology. Its pioneering theory-based, model-building approach was critical to the discovery by Watson and Crick of the DNA double helix. The cited paper was preceded by a one-page communication in a 1950 issue of the *Journal of the American Chemical Society*. It provided theoretical background and was the lead paper in a series of eight in consecutive April and May, 1951 issues of the *Proceedings of the National Academy of Sciences*. These articles solved the structures of naturally-occurring and synthetic helical polypeptide chains, the pleated sheet, feather keratin, hair, muscle and related proteins, fibrous proteins of the collagen-gelatin group, and provided deep insights into the structure of hemoglobin and other globular proteins.

Caltech

A. T. James and A. J. P. Martin, "Gas-Liquid Chromatography: A Technique for the Analysis and Identification of Volatile Materials," *Brit. Med. Bulletin* **1954**, *10 (3),* 170-176.

https://doi.org/10.1093/oxfordjournals.bmb.a069416

This paper announced to the chemical community a new analytical instrument, gas chromatography, that would forever improve radically the ability to analyze and even purify complex organic chemical mixtures. Arguably, this paper also eventually led to the development of HPLC.

National Institute for Medical Research, Mill Hill then becomes Frick Crick Institute in 2016

A. Maxam and W. Gilbert, "A new method for sequencing DNA," P. Nat. Acad. Sci. 1977, 74, 560-564.

The ability to determine the sequence of bases (A, T, G and C) in DNA strands was one of the major technical breakthroughs of the late 20th century, and gave molecular biology the precise analytical techniques which were crucial to fully realize the potential that was only hinted at by theoretical advances such as DNA's double helix structure. Quite simply, it was DNA sequencing that made the genomic revolution possible. Maxam and Gilbert's paper is a fitting contender for this prize as it was

for the Nobel as it was the first announcement of a successful attempt to accurately sequence a piece of DNA, using a degradative chemical approach.

Department of Molecular and Cellular Biology, Harvard University, Cambridge, Massachusetts 02138

R. K. Saiki, K. B. Mullis, H. A. Erlich, "Enzymatic Amplification of β-globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," Science **1985,** 230, 1350–1354.

The technology used to amplify a single copy or a few copies of a piece of DNA across several orders of magnitude, generating thousands to millions of copies of a particular DNA sequence.

Publication from Cetus Corporation
Cetus Corporation sold to Chiron Corporation in 1991.
Chiron acquired by Novartis International on April 20, 2006.

National Meeting Themes and Organizers

Meeting	Theme	Organizer(s)	Email
232nd, September 10-14, 2006, San Francisco, CA	Recovery from and Prevention of Natural Disasters	Ruth Hathaway	ruthhathaway@msn.com
233rd, March 25-29, 2007, Chicago, IL	Chemistry for a Sustainable Future: Energy, Food and Water	Ken Anderson, Sharon Shoemaker, Benito Marinas	spshoemaker@ucdavis.edu marinas@illinois.edu
234th, August 19-23, 2007, Boston, MA	Biotechnology for Health and Wellness; Chemistry of Systems Biology; Nutritional Genomics	Han Shen; Les McQuire; John Finley	jfinley@agcenter.lsu.edu Les@LesMcQuire.org
235th, April 6-10, 2008, New Orleans, LA	Energy in the Environment: Energy, Environment, Water	Mike Morello, M. Mercedes Maroto-Valer, Andrew Jackson, Eberhard Morgenroth	mike.morello@pepsico.com
236th, August 17-21, 2008, Philadelphia, PA	Chemistry for Health: Catalyzing Translational Research	Kinam Park	kpark@purdue.edu
237th, March 22-26, 2009, Salt Lake City, UT	Nanoscience: Challenges for the Future	Paul Weiss	psw@cnsi.ucla.edu
238th, August 16-20, 2009, Washington, DC	Chemistry and Global Security: Challenges and Opportunities	Sadiq Shah	sadiq.shah@csuci.edu
239th, March 21-25, 2010, San Francisco, CA	Chemistry for a Sustainable World	Laura Pence	lpence@hartford.edu
240th,August 22-26, 2010, Boston, MA	Chemistry for Preventing and Combating Disease	John Finley and Kenneth Jacobson	jfinley@agcenter.lsu.edu kajacobs@helix.nih.gov
241st, March 27-31, 2011, Anaheim, CA	Chemistry of Natural Resources	Ann-Christine Albertsson	aila@kth.se
242nd, August 28 - September 1, 2011, Denver, CO	Chemistry of Air, Space, and Water	Ronald Cohen	rccohen@berkeley.edu
243rd, March 25-29, 2012, San Diego, CA	Chemistry of Life	Peter Senter	psenter@seagen.com
244th, August 19-23, 2012, Philadelphia, PA	Materials for Health and Medicine	Xinqiao Jia	xjia@udel.edu
245th, April 7-11, 2013, New Orleans, LA	Chemistry of Energy and Food	James Seiber	jnseiber@ucdavis.edu
246th, September 8-12, 2013, Indianapolis, IN	Chemistry in Motion	Robert Weiss	rweiss@uakron.edu
247th, March 16-20, 2014 Dallas, TX	Chemistry and Materials for Energy	Michelle Buchanan & Nitash Balsara	buchananmv@ornl.gov; nbalsara@berkeley.edu
248th, August 10-14, 2014 San Francisco, CA	Chemistry and Global Stewardship	Robin Rogers	rdrogers@as.ua.edu

Meeting	Theme	Organizer(s)	Email
249th, March 22-26, 2015, Denver, CO	Chemistry of Natural Resources	Robert Weber	Robert.Weber@pnnl.gov
250th, August 16-20, 2015 Boston, MA	Innovation from Discovery to Application	Carston R. Wagner	wagne003@umn.edu
251st, March 13-17, 2016, San Diego, CA	Computers in Chemistry	Kenneth M. Merz	kmerz1@gmail.com
252nd, August 21-25, 2016, Philadelphia, PA	Chemistry of the People, by the People and for the People	Rudy Baum	r_baum@acs.org
253rd, April 2-6, 2017, San Francisco, CA	Advanced Materials, Technologies, Systems and Processes	Kathryn Beers	kathryn.beers@nist.gov
254th, August 20-24, 2017, Washington, DC	Chemistry's Impact on the Global Economy	Nancy Jackson	nbjacks@sandia.gov
255th, March 2018, New Orleans, LA	The Food, Energy, Water Nexus	Jerry Schnoor	jschnoor@engineering.uiowa.edu
256th, August 2018, Boston, MA	Nanotechnology	Paul Weiss	stm@ucla.edu
257th, March 31-Apr. 4 2019 Orlando, FL	Chemistry for New Frontiers		
258th August 25-29, 2019, San Diego, CA	Chemistry of Water	Chris Avery Elise Fox	christopher.avery@gmail.com elise.fox@srnl.doe.gov
259th, March 22-26, 2020 Philadelphia	Macromolecular Chemistry: The Second Century	Timothy Lodge Kris Matyjaszewski	lodge@umn.edu km3b@andrew.cmu.edu
260th, August 23 - 27, 2020 San Francisco	Chemistry from Bench to Market	Judy Giordan	judy@jgiordan.com
261st, March 21 - 25, 2021 San Antonio, Texas			
262nd, August 22-26, 2021 Atlanta, Georgia			
263rd, March 20-24, 2022 San Diego, California			
264th, August 21-25, 2022 Chicago, Illinois			