

**AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
NOVEMBER 17-18, 2017
MINUTES
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**AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
NOVEMBER 17-18, 2017**

MINUTES

A joint meeting of the Executive Committee of the Council (EC) and the Board of Trustees (BT) was held Friday and Saturday, November 17-18, 2017, at the AMS Headquarters in Providence, Rhode Island.

The following members of the EC were present: Robert L. Bryant, Jesús A. De Loera, Kenneth A. Ribet, Carla D. Savage, and Jennifer Taback. Ravi Vakil was present via web conference for some portions of the meeting. Alejandro Adem was unable to attend. It is noted for the record that a quorum (four members) was present.

The following members of the BT were present: Ralph L. Cohen, Jane M. Hawkins, Bryna Kra, Robert K. Lazarsfeld, Kenneth A. Ribet, and Joseph H. Silverman. Zbigniew H. Nitecki and Karen Vogtmann were present via web conference for various portions of the meeting. It is noted for the record that a quorum (six members) was present.

Also present were the following AMS staff members: Thomas J. Blythe (Chief Information Officer), Edward G. Dunne (Executive Editor, Mathematical Reviews), Sergei Gelfand (Publisher), Robert M. Harington (Associate Executive Director for Publishing), Ellen H. Heiser (Director of Administration for the Executive Director Division [and recording secretary for this meeting]), Robin Marek (Director of Development), Emily D. Riley (Chief Financial Officer and Associate Executive Director for Finance and Administration), Catherine A. Roberts (Executive Director), Karen M. Saxe (Associate Executive Director for Government Relations), and T. Christine Stevens (Associate Executive Director for Meetings and Professional Services). Megan E. Turcotte (Director of Membership) was present on Friday, November 17, 5:15 PM - 7:15 PM.

President Kenneth Ribet presided over the EC and ECBT portions of the meeting (items beginning with 0, 1, or 2). Board Chair Robert Lazarsfeld presided over the BT portion of the meeting (items beginning with 3).

Items in these minutes occur in numerical order, which is not necessarily the order in which they were discussed at the meeting.

0	CALL TO ORDER AND ANNOUNCEMENTS
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0.1 **Opening of the Meeting and Introductions.**

The President called the meeting to order and had participants introduce themselves.

0.2 **2017 AMS Election Results.**

Secretary Savage announced the following election results:

President

Jill C. Pipher, Brown University

Term is one year as President Elect (1 February 2018 - 31 January 2019), two years as President (1 February 2019 - 31 January 2021), and one year as Immediate Past President (1 February 2021 - 31 January 2022)

Vice President

Ken Ono, Emory University

Term is three years (1 February 2018 - 31 January 2021)

Trustee

Judy L. Walker, University of Nebraska-Lincoln

Term is five years (1 February 2018 - 31 January 2023)

Members at Large of the Council

Erika T. Camacho, Arizona State University

Victor Reiner, University of Minnesota

Brooke Shipley, University of Illinois at Chicago

Gigliola Staffilani, Massachusetts Institute of Technology

Anthony Várilly-Alvarado, Rice University

Terms are three years (1 February 2018 - 31 January 2021)

Nominating Committee

Tara S. Holm, Cornell University

Alice Silverberg, University of California, Irvine

Shmuel Weinberger, University of Chicago

Terms are three years (1 January 2018 - 31 December 2020)

Editorial Boards Committee

Akshay Venkatesh, Stanford University

Amie Wilkinson, University of Chicago

Terms are three years (1 February 2018 - 31 January 2021)

0.3 Housekeeping Matters.

The Executive Director reviewed some details about the schedule and arrangements for the events that took place during this meeting.

1 EXECUTIVE COMMITTEE ACTION/DISCUSSION ITEMS
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1.1 Draft Agenda for January 2018 Council Meeting.

The EC reviewed the draft agenda for the January 2018 Council meeting. One of the items on that agenda required the EC to decide the discussion topic for the April 2018 Council meeting. The EC designated the following topic: "The composition of AMS Editorial Boards and the role of the EBC."

1.2 Minutes of October 2016 EC Meeting by Technical Means. Att. #2.

The EC approved the attached minutes of the October 2016 EC meeting by technical means (Att. #2) regarding approval of the proposal to the NSF to support the conference series, *NSF/CBMS Regional Research Conferences in Mathematics*.

1I EXECUTIVE COMMITTEE INFORMATION ITEMS

1I.1 Secretariat Business by Mail. Att. #5.

Minutes of Secretariat business by mail during the months June 2017 - October 2017 are attached (#5).

2 EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES ACTION/DISCUSSION ITEMS
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2.1 Report on Mathematical Reviews Editorial Committee (MREC). Att. #6.

The ECBT received the attached (#6) report on the October 9, 2017 MREC meeting in Ann Arbor, Michigan.

It was noted that the date of the next MREC meeting is October 8, 2018 (Monday), in Ann Arbor, Michigan, and Andreas Frommer (Bergische University Wuppertal) will chair the Committee again in 2018.

2.2 Report on Committee on Publications (CPub). Att. #7.

The ECBT received the attached report (#7) on the October 13-14, 2017 CPub meeting in Chicago, Illinois.

It was noted that the next CPub meeting is September 14-15, 2018 (Friday-Saturday) in Chicago, Illinois. Claudia Polini (University of Notre Dame) will chair the Committee, and a review of the AMS book program will be conducted, in 2018.

2.3 Report on Committee on the Profession (CoProf). Att. #8.

The ECBT received the attached report (#8) on the October 14-15, 2017 CoProf meeting in Chicago, Illinois.

It was noted that the next CoProf meeting is September 15-16, 2018 (Saturday-Sunday), in Chicago, Illinois. Fadil Santosa (University of Minnesota) will again chair the Committee, and a review of the Committee on Professional Ethics will be conducted, in 2018.

2.4 Report on Committee on Meetings and Conferences (COMC).

The ECBT was informed that the next COMC meeting will be held on March 24, 2018 (Saturday) at the AMS Headquarters in Providence, Rhode Island. The current COMC Chair is Monica Nevins (University of Ottawa). The Chair for 2018 will be Rebecca Garcia (Sam Houston State University).

2.5 Report on Committee on Education (COE). Att. #33.

The ECBT received the attached report (#33) on the October 26-28, 2017 in Washington, DC.

It was noted that the next COE meeting is October 11-13, 2018 (Thursday-Saturday) in Washington, DC, and Ravi Vakil (Stanford University) will chair the Committee in 2018.

2.6 Report on Committee on Science Policy (CSP).

The ECBT was informed as follows:

- The next CSP meeting is April 10-11, 2018 (Tuesday-Wednesday) in Washington, DC.
- Scott Wolpert (University of Maryland) will chair the Committee again in 2018.
- CSP will host a panel discussion at the Joint Mathematics Meetings in San Diego, California on January 12, 2018. Panelists are being invited to participate in this panel currently titled "Federal agencies' funding & engaging through grassroots advocacy."

2.7 Washington Office Report. Att. #9.

The ECBT received the attached report (#9) on the activities of the Washington Office.

2.8 Report on the Membership Department. Att. #10.

As part of its strategic plan, the AMS established a Membership Department in the Meetings and Professional Services Division. Megan Turcotte began work as Membership Director in January 2017. Stevens (head of the Membership and Professional Services Division) and Turcotte delivered the attached report (#10) and answered questions from the ECBT regarding the Department's activities thus far, its plans for the future, and its connections to the governance structure.

2.9 2019 Individual Member Dues. Att. #11.

The ECBT reviewed Att. #11, which presents the principles and procedures for setting individual member dues and information used by staff in formulating the recommendations below. The ECBT concurred with these recommendations and voted to recommend them for approval to the January 2018 Council:

1. Raise the salary cutoff for regular high/low rates to \$90,000 for 2019.
2. Set the regular high dues rate at \$200 for 2019.
3. Increase the dues for affiliate members to \$20 for 2019.
4. Make the maximum number of AMS points that may be applied to dues for any year be equal to the number that would be needed in order to pay that year's affiliate dues rate.

2.10 Report on Long Range Planning Committee (LRPC).

Executive Director Roberts reported that the LRPC met on November 17, 2017 and discussed the following topics:

1. The LRPC Charge. The charge currently lacks any "Principal Activities." The Secretary and the Executive Director will prepare a draft for consideration at the next LRPC meeting in May 2018.
2. The Review of the Committee on Education (COE). The LRPC received and discussed the report of the ad hoc Committee to Review COE.
3. The Mathematical Reviews Facility in Ann Arbor, Michigan. The LRPC was informed that an RFP has been issued to several architectural firms soliciting expert assistance evaluating the costs and pros and cons of several alternatives. This matter will be discussed again at the next LRPC and ECBT meetings in May 2018.

2.11 Proposals Submitted to Funding Agencies and Foundations. Att. #12.

The ECBT received the attached report (#12) on the current status of previously approved proposals. There were no new proposals requiring ECBT approval at this time.

2.12 Motions of the Secretary.

Secretary Savage made the following motions, which were approved by acclamation:

*The Executive Committee and Board of Trustees of the American Mathematical Society record their thanks to **Jennifer Taback** for her service to the Society as a member of the Executive Committee during the past two years. The ECBT expresses its gratitude to Professor Taback for her thoughtful participation and hopes that she will continue to be available to serve the Society in other ways.*

*The Executive Committee and Board of Trustees of the American Mathematical Society record their thanks to **Karen Vogtmann** for her service to the Society as a member of the Board of Trustees during the past ten years. The ECBT expresses its gratitude to Professor Vogtmann for her wisdom in contributing to the management of the Society and hopes to be able to draw upon her talents again.*

2C EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES CONSENT ITEMS

2C.1 Minutes of May 2017 ECBT Meeting.

The ECBT approved the minutes of the meeting of the Executive Committee and Board of Trustees held May 19-20, 2017, in Ann Arbor, Michigan, with the following correction: In Item 1I.1 (Colloquium Lecturer), Avi Widgerson's affiliation should be "Institute for Advanced Study" not "Princeton University." These minutes had been distributed separately and include:

- ECBT open minutes prepared by the Secretary of the Society
www.ams.org/secretary/ecbt-minutes/ecbt-minutes-0517.pdf
- ECBT "open" executive session minutes prepared by the Secretary of the Society.

See also item 3E.4 of the executive session minutes of this meeting for approval of the May 2017 BT closed executive session minutes.

2I EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES INFORMATION ITEMS

2I.1 Changes in Registration Fees for Conferences, Employment Center or Short Course.

The Executive Director is authorized to make changes in these registration fees and then inform the ECBT. There have been no changes since the May 2017 ECBT meeting.

2I.2 AMS Congressional Fellowship.

Dr. Margaret D. Callahan has been awarded the 2017-18 AMS Congressional Fellowship. Callahan was previously a visiting Assistant Professor at Emory University. She was also a volunteer with Emory Math Circle, a free mathematics enrichment program for local middle and high school students. She received her Ph.D. in applied mathematics from Case Western Reserve University.

Callahan is interested in STEM education and public health policy and has served in rural Kenya as a secondary school mathematics teacher with the United States Peace Corps (USPC). She was elected a Math and Science Education Sector Representative to the Voluntary Advisory Council of the USPC working in support of corps volunteers.

The AMS again plans to sponsor a Congressional Fellow in 2018-19. The deadline for receipt of applications for that fellowship is February 15, 2018. An announcement and information on the application process will be sent to mathematical sciences department chairs, in addition to being publicized in the *Notices*, on the AMS website, in newsletters and through AMS social media outlets.

2I.3 AAAS-AMS Mass Media Fellowship.

The AMS sponsored Benjamin Thompson for the AMS-AAAS Mass Media Fellowship. He is a mathematics PhD student at Cornell University studying algebraic geometry. He spent the summer working at *Voice of America*.

The AMS plans to sponsor a Mass Media Fellow again in 2018. The deadline for receipt of applications for that fellowship is January 15, 2018. An announcement and information on the application process will be sent to graduate students in the mathematical sciences, in addition to being publicized in the *Notices*, on the AMS website, in newsletters and through AMS social media outlets.

2I.4 Report on Petitions for Student Chapters. Att. #19.

Att. #19 lists the new student chapter that has been approved by the Secretariat (on behalf of the BT) since the May 2017 ECBT meeting. As of September 29, 2017 there are 55 student chapters, and one petition is pending.

2I.5 2016 AMS Annual Report.

The *2016 AMS Annual Report* is now available and was sent to members of the ECBT by postal mail recently. The Report is also available online: www.ams.org/annual-reports. ECBT members were encouraged to read it and share it with colleagues. Paper copies of the Report may be obtained by emailing the Executive Director's Office (exdir@ams.org).

3 BOARD OF TRUSTEES ACTION/DISCUSSION ITEMS
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3.1 Budget Review.

3.1.1 Discussion of Fiscal Reports.

The BT discussed items 3.1.1 through 3.2.5 and then voted to approve the 2018 budget as presented, subject to the discussion of item 3E.3 (Salary Increments for 2018) in closed executive session.

3.1.2 Capital Expenditures – 2017 and 2018 Capital Purchase Plans.

The BT reviewed the 2017 and 2018 capital purchase plans and approved the 2018 plan as part of the 2018 budget. See item 3.1.

3.1.3 Capital Expenditures - Approval of Specific Purchases.

This item is reserved for requests for authorization to make capital purchases costing \$100,000 or more. No such requests were made at this meeting.

3.1.4 Update on Energy Credits for Replacement of HVAC Unit in Providence.

In October 2016, the BT approved \$130,000 to replace the heating, ventilation, and air conditioning (HVAC) unit in the north wing of the Providence building. The actual cost was \$186,000, after applying energy credits. National Grid, the utility company, had initially indicated that the project was eligible for \$63,000 in energy credits, but only \$20,000 was received. To offset the \$43,000 in anticipated energy credits that were not granted, National Grid provided the AMS with a \$40,000 interest-free loan. In addition, there were about

\$16,000 in cost-overruns. The reasons for the cost overruns were the unanticipated need to replace a heat pump and additional costs related to the engineering company that managed the project.

The BT retroactively approved increasing the amount authorized for this project from \$130,000 to \$186,000.

3.2 Spendable Income, Operations Support Fund and other Related Items. Att. #20.

The Society uses its long-term investments for several purposes, and for that reason it divides its investments into various funds. The following five standing items deal with those funds – additions, transfers and spending. The description of the way in which the AMS uses its long-term investment portfolio is summarized in Att. #20.

3.2.1 Addition to Operations Support Fund.

The amount due operations from the long-term investment portfolio at the end of 2017 is estimated to be approximately \$3,000,000. Operations may not have a need for the entire amount due from the long-term investment portfolio, so any remaining funds should remain in the long-term portfolio, provided that there are enough undesignated, unrestricted net assets to make this move. It is unlikely that the entire amount due operations from the long-term investment portfolio will remain in the portfolio.

The BT approved the Chief Financial Officer's recommendation that the amount due operations from the long-term investment portfolio at 12/31/17 (estimated to be approximately \$3,000,000) be used first to fulfill any obligation to maintain the value of true endowment funds at their original gift amount, if needed. Any other funds remaining may be needed by operations, and will be transferred to the Society's operating account at year end. After fulfilling the needs of the Society's operations, any remaining operating funds in the long-term investment portfolio should remain there and be officially added to the OSF, provided that there are enough undesignated, unrestricted net assets available to accomplish this.

3.2.2 Rebalancing of Economic Stabilization and Operational Support Funds.

Under the policy adopted by the Board of Trustees at its May 2006 meeting, at the end of each fiscal year the allocated values of the Economic Stabilization Fund (ESF) and the Operations Support Fund (OSF) are rebalanced such that the ESF always equals the target balance.

The amount and direction of the rebalancing required at each year end is principally dependent upon the return on the long-term investment portfolio. At the present time, with

current market conditions, it is likely that the transfer will return to the direction of ESF to OSF in 2017.

3.2.3 Allocation of Operations Support Fund (OSF) Spendable Income.

Income from reserves is allocated to each year's budget to service and outreach programs of the Society (without specifying exactly which programs). The total amount is approved by the ECBT each May.

The BT was informed that the income from the OSF for 2017 is \$2,831,000, and for 2018 the income is 3,230,000. Both these amounts were previously approved by the Board.

3.2.4 Appropriation of Spendable Income from Unrestricted Endowment. Att. #21 and Att. #22.

The Society's endowment funds are divided into three parts:

1. The Restricted Endowment funds were given for a specific purpose, such as for a prize or award. Income generated from the Restricted Endowment have legally binding restrictions on its use.
2. The Unrestricted Endowment funds were given to the Society's endowment for more general, unspecified purposes.
3. The Quasi-endowment funds were not specifically given to the endowment and are reserves of the Society segregated into accounts for special purposes, such as the Economic Stabilization Fund.

When funds are given to the Unrestricted Endowment, they are added to the Society's endowment and invested in perpetuity, with generated income used to support mathematical activities appropriate for the Society. Although it would be possible to apply this income to general operations, the May 2001 ECBT established that the spendable income would be allocated to specific projects that fall under the general description of supporting mathematics. The May 2001 Board of Trustees approved the following (from item 2E.5 of the minutes of that meeting):

Each year, the budgeting process will include recommendations for allocating spendable income from the Unrestricted Endowment for specific projects. The allocated income will be treated as revenue for operations, offsetting (part of) the expenses. These recommendations will be brought to the Board for approval at its November meeting in the normal budgeting process. The goal will not be to use all the income from such funds each year, but rather to use some of the income every year for the support of

mathematical research and scholarship. Using such income should be a regular part of our operations rather than an exceptional situation.

The 2018 revenue budget currently includes \$298,830 of spendable income from the Unrestricted Endowment fund (which is an increase of \$16,636 over the 2017 amount). To assist with allocating this income as revenue for regular operations, staff prepared the attached list (#21) of recommended projects to designate to receive this income. The Board also considered alternative allocations to those recommended, including those outlined in Att. #22, which are programs that have received allocations from the Appropriated Spendable Income in prior years.

By virtue of the action on the 2018 budget recorded under item 3.1.1 above, the appropriations for 2018 as shown in Att. #21 were approved.

3.2.5 Report on Changes in Appropriated Spendable Income and Report on Endowment Funds.

The Executive Director has the authority to transfer spendable income that will not be used on an approved project to another approved project, in case additional support is needed. Any such transfers are to be reported to the BT at their next meeting.

The Chief Financial Officer reported that there is approximately \$30,000 in unspent spendable income from 2017 that had been set aside for Department of Education and Diversity programs. These funds will be moved forward to 2018 to spend where needed, such as partially funding the 2018 Birman Fellowship and the Department of Education and Diversity.

3.3 Investment Committee Report.

The BT received a report on the November 17, 2017 Investment Committee meeting from the Chair of the Committee, Jane Hawkins. The Committee discussed the following topics:

- current portfolio returns vs. benchmarks for 2014, 2015, 2016, and year-to-date indicated for 2017
- whether any rebalancing should be made to conform to the current asset allocation policy
- spending rate and spendable income
- fixed-income strategy

3.4 Audit Committee. Att. #23.

The Chair of the Audit Committee, Jane Hawkins, reported that the Committee met with representatives from the Society's auditing firm, CBIZ Tofias & Mayer Hoffman McCann P.C., on

November 17, 2017 and discussed audit planning and changes in accounting pronouncements affecting the AMS.

The Audit Committee recommended changing the name and charge of the Committee as outlined in **Att. #23**. The BT approved the changes.

3.5 Board-designated Fund for Strategic Plan Implementation.

The AMS is in the implementation stage of the *Strategic Plan 2016-2020*. The November 2015 BT approved taking \$250,000 from the Operations Support Fund (OSF) and designating it as a fund to be used for strategic planning initiatives. In 2017, an additional \$100,000 was taken from the OSF and added to the Strategic Planning Fund. At the beginning of 2017, the total amount in the fund was \$310,647. It was anticipated that \$230,000 of the fund would be used in 2017. The Executive Director and Chief Financial Officer requested that another \$225,000 be added to the fund for things such as new positions, supplies and other expenses related to the branding change, and/or contracted services to implement the plan.

The BT approved setting aside an additional \$225,000, to be taken from the Operations Support Fund and designated as part the Strategic Planning Fund, to be used for implementation of strategic plan initiatives.

3.6 Trustees' Officers.

The Board elected Joseph Silverman Chair of the Board for the term February 1, 2018 – January 31, 2019.

The Board re-elected Zbigniew Nitecki Secretary of the Board for the term February 1, 2018 – January 31, 2019.

3.7 Trustees' Committees, etc. **Att. #24.**

The BT briefly reviewed the attached list of BT committees, Trustee appointments to policy committees, and Trustee liaison assignments to divisions of the Society's administrative offices (**Att. #24**). It was noted that the Chair of the Board will make necessary appointments (in consultation with the incoming Chair) and relay them to Secretary Savage to send the official appointment letters.

3C	BOARD OF TRUSTEES CONSENT ITEMS
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3C.1 Courtesy Appointments for AMS Staff Mathematicians.

Brown University now provides courtesy “Visiting Scholar” appointments to PhD mathematicians working at the AMS in Providence. These appointments are offered through the Mathematics Department or the Division of Applied Mathematics and provide full access to Brown’s library collection, including access to databases and interlibrary loan. These appointments provide enhanced benefits to staff mathematicians beyond the complimentary sponsored IDs, which provide limited access to the Brown University Libraries, that have been available to all staff for many years.

Ever since Mathematical Reviews moved to Ann Arbor in 1965, the Executive Editor and the Associate Editors have had courtesy appointments at the University of Michigan. Currently, the editors are “Academic Affiliates.” Most importantly, this affiliation provides access to the university's substantial library collection.

The Executive Director is now in the process of seeking to arrange a similar appointment at a university in the Washington, DC area for the Director of the AMS Government Relations Office.

The Board of Trustees endorsed the following statement, which the Executive Director will communicate to Brown University:

The Board of Trustees of the American Mathematical Society thanks Brown University for extending courtesy Visiting Scholar Appointments to the mathematicians on the AMS staff who work at the Providence Headquarters. These appointments support the ongoing research programs of these PhD mathematicians and will enhance the American Mathematical Society’s ability to attract the best individuals to serve the mission of the organization.

3C.2 Request for Support of Speakers at 2019 AAAS Annual Meeting.

The BT authorized \$12,000 to support mathematics speakers at the 2019 AAAS annual meeting, and agreed to permit the Secretary of Section A to over-commit funds up to 20%, with the understanding that the goal is not to exceed \$12,000.

3C.3 Retirement Plan Investment Committee Report. Att. #26.

The Retirement Plan Investment Committee is a standing committee of the Board of Trustees created in 2011 consisting of four members:

1. Director of Human Resources (Chair)
2. Chief Financial Officer
3. Associate Treasurer
4. a member of the Board of Trustees who, at the time of the appointment, has at least two years remaining in their term as Trustee

The Committee is responsible for ensuring that the Society fulfills its Plan Sponsor responsibilities. The current Committee charge and the 2017 Committee report are attached (#26).

The report contains a recommendation from the Committee that its charge be changed to reflect a new membership structure: the Director of Human Resources, the Chief Financial Officer, a knowledgeable staff member, and the Associate Treasurer. The BT approved this recommendation.

3C.4 Recognition for Length of Service.

The BT approved the following proclamations for the employees noted.

20 years of service:

Robin Hagan Aguiar

Mary L. Anglin

Kimberly Ann Bryant

Edward G. Dunne

Mark E. Sheppard

Beth A. Winkler

The Board of Trustees takes great pride in recognizing <full name> for twenty years of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer <first name> their special thanks and their best wishes.

25 years of service:

Ann L. Gendreau
Deborah J. Smith
Kimberly Sue Page

The Board of Trustees takes great pride in recognizing <full name> who has devoted twenty-five years of service to the Society. The Board expresses its profound gratitude for this long record of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer their special thanks and their best wishes to <first name> for being such a loyal employee and wish <him/her> well in the future.

30 years of service:

Victoria W. Ancona
Michael P. Saitas
Kimberly A. Taylor

The Board of Trustees takes great pride in recognizing <full name> for the outstanding distinction of serving the Society for thirty years. The Board expresses its profound gratitude for this long record of faithful service to the Society. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer their special thanks and their best wishes to this loyal employee.

35 years of service:

Anna M. Hattoy
Patricia LaChance
Daniel C. Latterner
Andrew L. Price

The Board of Trustees takes great pride in recognizing <full name> for the outstanding distinction of serving the Society for thirty-five years. The Board expresses its profound gratitude for this long record of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater

mathematical community. The Trustees offer their special thanks and their best wishes to <first name> for being such a loyal employee and wish him well in the future.

40 years of service:

Patricia A. Hickey

The Board of Trustees takes great pride in recognizing Patricia A. Hickey for the outstanding distinction of serving the Society for forty years. The Board expresses its profound gratitude for this long record of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer their special thanks and their best wishes to Patricia for being such a loyal employee and wish her well in the future.

50 years of service:

Marcia C. Almeida

The Board of Trustees takes great pride in recognizing Marcia C. Almeida, who has devoted fifty years of service to the Society. The Board expresses its profound gratitude for this outstanding distinction of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer their special thanks and their best wishes to Marcia for being such a loyal employee and wish her well in the future.

55 years of service:

Barbara N. Beeton

The Board of Trustees takes great pride in recognizing Barbara N. Beeton, who has devoted fifty-five years of service to the Society. The Board expresses its profound gratitude for this outstanding distinction of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer their special thanks and their best wishes to Barbara for being such a loyal employee and wish her well in the future.

3C.5 Resolutions for Retirees.

The BT approved the following resolutions:

*Be it resolved that the Trustees accept the retirement of **David Dalton** with deep appreciation for his faithful service over a period of 29 years. The Board expresses its profound gratitude for this long record of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer David their special thanks and heartfelt good wishes for a happy and well-deserved retirement.*

*Be it resolved that the Trustees accept the retirement of **Mary Letourneau** with deep appreciation for her faithful service over a period of 26 years. The Board expresses its profound gratitude for this long record of faithful service. It is through the dedication and service of its employees that the Society is able to effectively serve its members and the greater mathematical community. The Trustees offer Mary their special thanks and heartfelt good wishes for a happy and well-deserved retirement.*

3I BOARD OF TRUSTEES INFORMATION ITEMS

3I.1 Change in Fringe Benefits.

The November 1996 BT authorized the Executive Director to approve changes in benefit plans (except for those changes which would significantly enhance or degrade the Society's financial health or relations with its employees) and asked that these changes be reported to the BT when appropriate.

It was reported that no changes had been made since the May 2017 ECBT meeting.

3I.2 Retirement Plan Amendments. **Att. #31.**

Att. #31 contains two amendments to the AMS Retirement Plan (the Plan):

1. This amendment adds "taxable tuition reimbursement" to the types of compensation that are excluded from employer contributions under the Plan. This amendment was effective 1/1/2017.
2. This amendment adopts amended definitions of qualified non-elective matching contributions as outlined in proposed amendments to recent Treasury Regulations related to forfeitures, Safe Harbor Contributions and Qualified Non-

Elective/Qualified Matching Contributions (QNEC/QMAC). This amendment was effective 1/1/2017.

Both amendments were drafted by Angell Pension Group, the Society's third-party plan administrator.

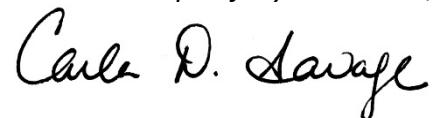
31.3 Tax-deferred Annuity Plan Amendments. Att. #32.

Att. #32 contains two amendments to the AMS Tax-Deferred Annuity Plan (the TDA Plan):

1. This amendment amends the definition of "Compensation" and "Credited Compensation" adding "taxable tuition reimbursement" to the types of compensation that are excluded for purposes of contributions under the TDA Plan. This amendment was effective 1/1/2017.
2. This amendment adopts amended definitions of qualified non-elective matching contributions as outlined in proposed amendments to recent Treasury Regulations related to forfeitures, Safe Harbor Contributions and Qualified Non-Elective/Qualified Matching Contributions (QNEC/QMAC). This amendment was effective 1/1/2017.

Both amendments were drafted by Angell Pension Group, the Society's third-party plan administrator.

Respectfully submitted,



*Carla D. Savage, Secretary
Raleigh, North Carolina
January 11, 2018*



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Carla D. Savage, Secretary
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MINUTES OF A MEETING BY TECHNICAL MEANS OF THE EXECUTIVE COMMITTEE

Called on 10/6/16 by Secretary Savage at the request of Executive Director Roberts.

Proposal to NSF to Support the Conference Series: NSF/CBMS Regional Research Conferences in Mathematics.

The following proposal needed to be submitted by mid-October 2016. Staff should have asked for approval to prepare and submit this proposal at the May 2016 ECBT meeting, but it got overlooked.

- Proposal is joint with the Conference Board for the Mathematical Sciences (CBMS) and to be submitted by mid-October 2016 to the Infrastructure Program, Division of Mathematical Sciences at NSF.
- Amount of proposal is \$230,000-\$250,000 over five years.

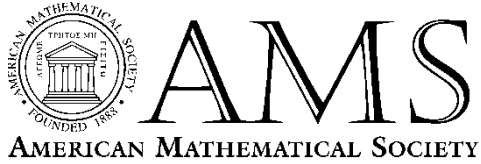
For the past 47 years CBMS has promoted, advertised, and provided support services for the NSF/CBMS Regional Research Conference in Mathematics series. Typically, each year six such conferences are hosted by institutions around the country. Over a five-day period, each conference draws regional attendees who are focused around ten lectures by a leading-edge researcher and presentations by others in that mathematical area. For the period 2017 to 2021, this grant supports administration and stipends to featured speakers for preparing the lectures and writing monographs based on them. AMS's infrastructure combined with CMBS's experience and network will help to ensure the highly-valuable NSF program of conferences continues to foster mathematical research of the highest caliber in the US.

Staff requests ECBT approval to prepare and submit this proposal. The BT has approved. Now EC approval is requested.

EC Voting concluded 10/7/16. The Executive Committee unanimously approved this action.

Respectfully submitted,

*Carla D. Savage, Secretary
Raleigh, North Carolina
April 6, 2017*



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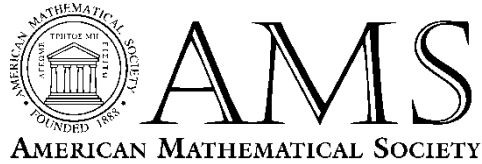
Carla D. Savage, Secretary

**SECRETARIAT
BUSINESS BY MAIL
MINUTES
June 1, 2017
(from the Ballot dated May 1, 2017)**

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated April 20, 2017.
2. Approved the Minutes of the Secretariat Business by Mail from the ballot dated April 3, 2017.

Carla D. Savage



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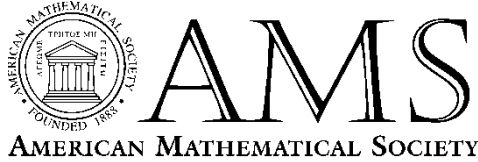
**SECRETARIAT
BUSINESS BY MAIL
MINUTES
July 3, 2017**

(from the Ballot dated June 1, 2017)

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated May 20, 2017.
2. Approved the Minutes of the Secretariat Business by Mail from the ballot dated May 1, 2017.

Carla D. Savage



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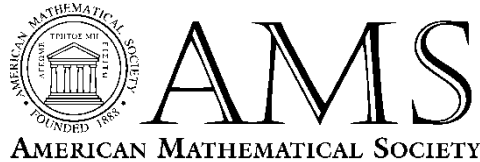
**SECRETARIAT
BUSINESS BY MAIL
MINUTES
August 1, 2017**

(from the Ballot dated July 3, 2017)

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated June 26, 2017.
2. Approved the Minutes of the Secretariat Business by Mail from the ballot dated June 1, 2017.
3. Approved reciprocity membership extended to the Bangladesh Mathematical Society.

Carla D. Savage



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Carla D. Savage, Secretary

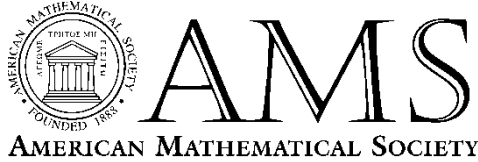
**SECRETARIAT
BUSINESS BY MAIL
MINUTES
September 1, 2017**

(from the Ballot dated August 1, 2017)

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated July 20, 2017.
2. Approved the proposal to hold the Fall 2019 Eastern Regional Meeting of the American Mathematical Society on October 12-13, 2019 at Binghamton University, in Binghamton NY.
3. Approved the student chapter petition from the University of Illinois at Urbana Champaign, dated July 13, 2017.
4. Approved the Minutes of the Secretariat Business by Mail from the ballot dated July 3, 2017.

Carla D. Savage



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Carla D. Savage, Secretary

**SECRETARIAT
BUSINESS BY MAIL
MINUTES
October 1, 2017**

(from the Ballot dated September 1, 2017)

From the Ballot dated September 1, 2017, an email exchange dated September 1 – 2, 2017, and a supplemental ballot dated September 13, 2017, votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated August 20, 2017.
2. Approved the proposal to host the Fall 2019 Southeastern Sectional Meeting at University of Florida in Gainesville, FL on the weekend of Nov. 2 – 3, 2019.
3. Approved the student chapter petition from the University of Louisville, in Louisville, Kentucky.
4. Approved the Minutes of the Secretariat Business by Mail from the ballot dated August 1, 2017.
5. At the request of Karen Saxe, Associate Executive Director of the Washington Office, approved granting Jerry McNerney U.S. Representative for California's 9th congressional district, a two-year complimentary AMS Membership in honor of his public support for the mathematics community.
6. Approved the JMC's choice of Seattle, Washington, Washington State Convention Center, January 5 – 8, 2022 as the location and date of the 2022 JMM.
7. Approved the JMC's choice of Boston, Massachusetts, John B. Hynes Memorial Convention Center, January 4 – 7, 2023 as the location and the date of the 2023 JMM.

Carla D. Savage

Report on the 2017 Annual Meeting of the Mathematical Reviews Editorial Committee

The 2017 annual meeting of the Mathematical Reviews Editorial Committee (MREC) was held on Monday, October 9, in the Mathematical Reviews offices in Ann Arbor, Michigan. In attendance were committee members: Andreas J. Frommer (Chair), Danny Calegari, Barbara Lee Keyfitz, Jeffrey C. Lagarias, Shigefumi Mori, Pham Huu Tiep, and Catherine A. Roberts (AMS Executive Director); Guests: Motoko Kotani (incoming member of MREC), Edward Dunne (Executive Editor), Norman Richert (Managing Editor), and MR Associate Editors: Andrés Caicedo, Dean Carlson, Steve Damelin, Asen Dontchev, Chris Elmer, James Epperson, Robert Hladky, Guo Ying Jiang, Michael Jones, Vasilii Kurta, Milan Lukic, Lon Mitchell, Irina Sivergina, Margaret Stawiska-Friedland, and Ursula Whitcher. Zbigniew Nitecki (AMS Associate Treasurer) was unable to attend.

1. *MREC Membership.* Andreas Frommer was appointed by the AMS Council as Chair to serve a two-year term from February 1, 2017 to January 31, 2019. Normally, the Chair is also reappointed as a member of MREC. Frommer is interested in serving a full four-year second term as a member of the committee. Danny Calegari, with the support of the rest of MREC, has offered to serve a two-year term as Chair after Frommer, from February 1, 2019 to January 31, 2021. Calegari is also interested in serving for a full four-year second term.
2. *Date of the next meeting:* Monday, October 8, 2018.
3. *Approval of the Minutes of the 2016 Meeting.* The minutes of the meeting held on October 10, 2016 were approved with two minor changes.
4. *Procedure for Approving Reference List Journals.* MREC approved a process for adopting some journals as reference list journals by consent.
5. *Guidelines on the Adoption of New Journals.* Executive Editor Edward Dunne reviewed the editorial principles used in deciding on coverage for new journals by MR. As noted by MREC, the principles are an expanded expression of the Mathematical Reviews Editorial Statement. Inclusion of a journal in the coverage by Mathematical Reviews should indicate that it meets the standards set out in the editorial statement.
6. *Update on MR Activities.* Dunne presented highlights of MR activities, as described in the MR Operating Plan for 2018 and Section VI of the 2016 MR Operating Plan. The highlights included discussions of the changing landscape in which MR operates, some changes to MathSciNet – both implemented and still to come, data on the growth of the database, and information on the distribution of pure and applied mathematics in the database.
7. *Strategic Planning.* Executive Director Roberts presented an update on AMS Strategic Planning. She highlighted the creation of two new departments: (1) Education and Diversity and (2) Membership. Roberts discussed the strategic initiative on Awareness and Visibility, and its leading edge, the branding initiative and new logo. The new logo was revealed to MREC, as was the new AMS tagline: “Advancing research. Creating connections.”

8. *MR Facility.* The AMS Board of Trustees has asked for a review of the MR facility. The review will include an assessment of the needs of MR and descriptions of possible options. The decision is up to the Board of Trustees, but MREC should be kept informed of the changes. MREC emphasized the importance of access to the University of Michigan for the Associate Editors.
9. *Subscription Information.* Roberts reviewed information on the pricing structure for MathSciNet, including information on participation in the MathSciNet for Developing Countries Program (MDC). She also reported on recent trends on subscriptions, in particular on consortia. Eligibility for the MDC is based on the World Bank Classification of national economies. Some members of MREC inquired about using the UNESCO classification, as is done with the IMU.
10. *Current Index of Statistics.* The AMS is in discussions with the IMS about moving the data from the Current Index of Statistics (CIS) into MathSciNet. IMS plans to shut down the CIS on December 31, 2019.
11. *Bibliometrics.* The MRDB contains valuable data about the mathematics literature. For some time now, MathSciNet has displayed citation information for authors (number of citations and number of authors citing) and journals (MCQ). Mathematicians, librarians, and others sometimes request for MR to increase the bibliometric computations derived from that data. However, providing such metrics has risks, particularly when they carry the imprimatur of the AMS. MREC discussed some of those risks, as well as made suggestions regarding the explanations of the information currently given.
12. *MR Database.* Managing Editor Richert reviewed statistics concerning the number of items in the MR Database as a function of time.
13. *MSC 2020.* Associate Editors Caicedo and Carlson provided an update on the joint Mathematical Reviews – zbMATH project to update the Mathematics Subject Classification.
14. *Reference List.* The Associate Editors presented 23 journals for consideration to be added to the Reference List Journals. MREC approved 18 of them.
15. *Review of MR Editorial Statement.* MREC reviewed the MR Editorial Statement and voted unanimously to reaffirm the statement in its current form.
16. *MR-zbMATH News.* Richert presented some comparative statistics regarding MathSciNet and zbMATH.
17. *Executive Session.* The committee adjourned to executive session at 3:00pm.
18. *MR Office Tour.* The meeting concluded with a tour of the MR departments.

New Reference List Journals – Approved October 2017

Journal	Publisher
<i>ACM Transactions of Computation Theory</i>	ACM
<i>Acta Mathematica Scientia. Series B. English Edition</i>	Science Press, Beijing
<i>Algebraic Geometry</i>	Foundation Compositio Mathematics
<i>Analysis and Geometry in Metric Spaces</i>	Walter de Gruyter GmbH
<i>Annals of PDE. Journal Dedicated to the Analysis of Problems from Physical Sciences</i>	Springer International Publishing
<i>Bulletin of the Institute of Mathematics. Academia Sinica. New Series</i>	Acad. Sinica Institute of Mathematics
<i>Computability. The Journal of the Association CiE</i>	IOS Press
<i>European Journal of Control</i>	Elsevier B. V.
<i>European Journal of Mathematics</i>	Springer International Publishing
<i>Extremes. Statistical Theory and Applications in Science, Engineering and Economics</i>	Springer International Publishing
<i>Groups. Complexity. Cryptology</i>	Walter de Gruyter GmbH
<i>Jaen Journal on Approximation</i>	Mathematics Department, University of Jaén
<i>Mathematical Social Sciences</i>	Elsevier B.V.
<i>Real Analysis Exchange</i>	Michigan State Univ. Press
<i>Rendiconti di Matematica e delle sue Applicazioni. Serie VII</i>	Univ. Studi Roma "La Sapienza"
<i>Research in Number Theory</i>	Springer International Publishing
<i>Stochastic Partial Differential Equations. Analysis and Computations</i>	Springer International Publishing
<i>Stochastic Systems</i>	INFORMS

*Edward Dunne
 Executive Editor
 Mathematical Reviews
 October 18, 2017*

American Mathematical Society
Committee on Publications
2017 Annual Meeting
SUMMARY REPORT

A meeting of the AMS Committee on Publications (CPub) was held on Friday and Saturday, October 13-14, 2017 at the Chicago O'Hare Hilton Hotel, O'Hare International Airport, Chicago, IL, 60666. Ilya Kapovich, chair, presided over the meeting.

Actions taken by CPub include the following:

Ebooks/New Book Media

CPub reviewed the AMS book program in 2016 and directed that a subcommittee on adopting new media for AMS books be appointed to report to CPub at its 2017 meeting. Subsequently, the appointment of this subcommittee was postponed, with the understanding that AMS staff would first provide a report on the ebook program.

Associate Executive Director Harington reported on the ebook program, and CPub determined that a subcommittee on ebook development is not needed at this time. In its place, AMS staff will provide an annual update on work being done to implement new approaches to digital content, and the ebook program will be evaluated as part of CPub's regular review of the AMS Book Program.

Institutional Open Access Policies Subcommittee

In 2016, a joint subcommittee of members of CPub and the AMS Committee on the Profession (CoProf) was formed to study copyright and open access policies that affect mathematicians. The following is a summary of the subcommittee's findings and recommendations:

- Many mathematicians are unaware of whether their institutions have open access policies, and if so, if they are compatible with publisher policies. It was recommended that AMS review and modify its publishing agreements to ensure they are compatible with mainstream open access policies.
- Institutional repositories are not widely used by mathematicians, while the arXiv is.
- Awareness of open access policy issues is low among mathematicians, and there is a need for guidance. To raise awareness, it was recommended that an article explaining the legal terminology and framework of copyright law and open access policies be published in the *Notices* or on the AMS website.

CPub requested that the subcommittee, with the help of AMS staff, coordinate preparation of an article for publication in the *Notices* to raise awareness on open access policies.

Revisions to Editorial Committee Charges

C Pub approved changes to the charges of the editorial committees of the *Proceedings of the AMS*, *Colloquium Publications*, *Journal of the AMS*, *Mathematical Surveys and Monographs*, *Mathematical Reviews*, and *Transactions and Memoirs* to clarify appointment procedures. The changes will go forward to Council for approval.

Web Editorial Group

In September 2011, C Pub endorsed the creation of a working group, the AMS Web Editorial Group (WEG), to advise AMS officers and staff about mathematical content on the AMS website. WEG supplements the work of the staff Web Advisory Group (WAG). The January 2017 Council instructed C Pub to consider whether WEG should become a standing committee.

Since its duties relating to content on the AMS website are not presently clear, C Pub voted to recommend to Council that WEG be discharged with thanks, and in its place, a member of C Pub will be appointed by the C Pub chair as a liaison to WAG to advise on matters of web content and report to C Pub annually. C Pub's recommendations will go forward to Council for consideration.

C Pub Review Schedule

C Pub approved a proposal to modify its annual review schedule by combining the reviews of the member journals and the electronic only, translation and distributed journals, resulting in a three-year review cycle. C Pub's 2018 review will be of the AMS Book Program. The proposed modification will go forward to Council for approval.

Other Business:

Review of AMS Member Journals

A subcommittee of C Pub, consisting of members Nathan Dunfield, Ilya Kapovich (chair), Claudia Polini and Michael Singer, conducted the 2017 review of the member journals (*Abstracts*, *Bulletin*, and *Notices*). The review concentrated mainly on the *Bulletin* and *Notices*, and overall, both journals were found to be in very good health. Delivery to nominee members was identified as the most significant issue for both publications, and the subcommittee recommended that AMS consider a more aggressive notification practice, where several repeated notifications are sent over a period of time and contain more diverse content.

Further recommendations for both *Bulletin* and *Notices* include:

- Exploring adding online only features to enhance the electronic versions (e.g., extra graphics/interactive data/other media related to articles, reviews, AMS publications, and contributors);
- Conducting more frequent surveys of AMS members regarding readership; and
- Collecting and using page-view statistics data to target enhancements.

Attracting enough high quality articles and book reviews was identified as the most difficult task faced by the *Bulletin*. To attract more contributions, the subcommittee suggested offering AMS Points awards to authors, soliciting more articles of shorter length, and placing ads in the *Notices*.

Alternating the Levi Conant prize each year between the *Bulletin* and the *Notices* and adding an online comments/feedback submission form were also suggested.

In addition to the above, the following suggestions were made for *Notices*:

- Continue experimenting with the new online comments feature to make it more attractive to readers;
- Preserve some of the more traditional features, such as the “Letters to the Editor” section; and
- Ensure that AMS templates and formatting rules provide enough flexibility for presentation and organization of content.

Notwithstanding financial considerations, the subcommittee’s review of *Abstracts* subscription data and membership survey results found no compelling reasons for its continuation as a separate publication. However, CPub agreed that before any recommendation is made to discontinue *Abstracts*, AMS should look into how to make abstracts available in an electronic form that would allow for the convenient search, retrieval and archiving of abstracts presented at the Society’s meetings.

Staff provided reports on the following items:

- Strategic Planning
- Journal Backlogs
- AMS Open Access Journals
- Mathematical Reviews

Next meeting: CPub’s next meeting will be held September 14-15, 2018 at the Hilton O’Hare in Chicago, IL.

Sergei Gelfand
Publisher
October 24, 2017

**Committee on the Profession
Annual Report
2017**

The Committee on the Profession (CoProf) held its annual meeting on October 14-15, 2017, at the Hilton Chicago O'Hare Airport. Fadil Santosa, University of Minnesota, chaired the meeting. There was a very full agenda, the highlights of which are summarized below.

Agenda items that were endorsed by CoProf and will be taken to the Council for consideration:

- **Human Rights of Mathematicians:** CoProf's annual review, conducted by a subcommittee, dealt with the Committee on Human Rights of Mathematicians (CHRM). It focused on whether CHRM should continue to exist and, if so, what the scope of its concerns and powers should be. CoProf approved a revised charge for CHRM that expands its scope to include human rights violations wherever they occur, and it recommended that the AMS state that it considers sexual orientation and gender identity to be covered by the Universal Declaration of Human Rights. CoProf also recommended a change in the AMS Policy on a Welcoming Environment that adds "immigration status" to the list of categories with respect to which participants in AMS activities should not be discriminated against. The members of the subcommittee were Robert Bryant, David Savitt (chair), and Jeremy Teitelbaum.
- **AMS Mary P. Dolciani Prize for Excellence in Research:** CoProf recommended that the Council approve this new prize, which would be awarded to a mathematician from a primarily undergraduate institution. CoProf also endorsed the creation of a selection committee for the prize and approved its charge.
- **Nominating Committee (NomCom):** CoProf approved several changes to the NomCom charge and recommended that the Council do the same.
- **Statistics on women mathematicians:** Each year, as required by a motion passed by the Council in 1985, the *Notices* publishes "information on the relative number of men versus women" in several categories, such as speakers in Special Sessions at AMS meetings. CoProf recommended that the Council reframe the question in terms of demographic information, rather than information about "men versus women."
- **Joint Data Committee:** CoProf endorsed changes in the charge of the AMS-ASA-MAA-SIAM Data Committee that update its principal activities and slightly alter its membership.
- **Bôcher, Cole, and Veblen Prizes:** The Prize Oversight Committee (POC) reported the results of its review of the charges of the selection committees for these three prizes, and CoProf approved several changes in them. The members of the Prize Oversight Committee were Bryna Kra, David Savitt (chair), and Suzanne Weekes.

- **Award for Distinguished Public Service:** CoProf endorsed changes in the charge of the selection committee for this award. Those changes had been recommended by the committee and by the Secretary.
- **Employment Services Advisory Board:** CoProf voted to recommend that this committee be dissolved, since it had been inactive and had no work to do.

Other actions taken by CoProf:

- **Site visit program to improve the departmental climate for women and minorities:** The American Physical Society (APS) has programs under which institutions can request “site visits,” for the purpose of improving the climate for women and minorities. CoProf discussed the report of a subcommittee that studied the possibility that the AMS develop a similar program. The subcommittee will defer making a recommendation to CoProf until it has had an opportunity to observe an APS site visit. The members of the subcommittee are Pamela Gorkin, Christine Heitsch, Monica Jackson, Hal Sadofsky, and Fadil Santosa (chair).
- **Open-access policies:** At its meeting in September 2016, CoProf voted to form a joint subcommittee with the Committee on Publications (CPub) to study open access policies and to determine whether any steps should be taken to raise awareness among mathematicians or provide guidelines for dealing with these issues. CoProf discussed the subcommittee’s report and recommended that the subcommittee write a readable article for the *Notices* about this topic. The CoProf representatives on this subcommittee are Alicia Dickenstein and John McCleary, and the CPub representatives are Henry Cohn (chair) and Ilya Kapovich.
- **Maryam Mirzakhani Memorial:** CoProf discussed ways in which the AMS might honor Maryam Mirzakhani and voted to suggest to the Committee on Meetings and Conferences the possibility of naming one of the AMS invited addresses at the Joint Mathematics Meetings after her.
- **Annual review for 2018:** CoProf chose the Committee on Professional Ethics (COPE) as the topic for its annual review in 2018. A subcommittee comprising Gregory Lawler, Carla Savage, Jeremy Teitelbaum (chair), and a member of COPE will review COPE’s charge. In the meantime, CoProf voted to recommend to COPE that it function only in an advisory role when people come to it with disputes and that it should not be involved in mediation or conflict resolution.

Other business:

- **Committee reports:** CoProf discussed reports from the Committee on Women in Mathematics, the Fellows Selection Committee, and the Committee on Members and Member Benefits.
- **Issues raised by members of the mathematical community:** CoProf discussed several topics that had been raised by members of the mathematical community, including letters of recommendation, diversity, and recent changes in eligibility criteria for Simons Foundation Collaboration Grants for Mathematicians. No formal action was taken.
- **JMM panel:** CoProf will sponsor a panel at JMM 2018 entitled “Paths to Collaboration with Scientists,” at 4:30 – 6:00 p.m. on Wednesday, January 10, 2018. It was organized by a subcommittee comprising Albert Boggess, John McCleary, Hal Sadofsky, and Suzanne Weekes.
- **Written reports:** Staff reports on the following topics were included in the CoProf agenda: the Department Chairs Workshop, Membership Department, Education and Diversity Department, Employment Services of the AMS, Graduate Student Chapters, and Mathematics Research Communities. CoProf decided that, in future years, the chair and the staff liaison should decide which reports will be included in the agenda, perhaps including each report once every two years.
- **Next meeting:** The Committee on the Profession will hold its next meeting on September 15-16, 2018, at the Hilton Chicago O’Hare Airport.

*T. Christine Stevens
Associate Executive Director
October, 2017*

Washington Office Report

October 1, 2017

Federal Budget

Since the last ECBT meeting, President Trump has issued his full FY2018 budget and Congress continues to work on their appropriations bills. The [Washington Office blog](#) gives a primer on the annual federal budget process.

In September, President Trump and congressional leaders passed a bipartisan spending [agreement](#) extending government agency spending at current levels and raising the federal debt ceiling through Dec. 8. This buys congressional leaders more time to negotiate agreements on the debt ceiling and a final budget for fiscal year 2018. The three-month spending extension is not atypical in Congress; Congress has not funded the federal government by the start of the new fiscal year in over 20 years. This agreement includes \$15 billion in emergency Hurricane Harvey and wildfire relief. It passed in the Senate by a vote of 80 to 16, followed quickly by House approval by a vote of 316 to 90. In a provision sought by the scientific and university research community, the legislation explicitly prohibits the National Institutes of Health from altering its reimbursement rates for facilities and indirect costs. The Trump administration has proposed capping those rates at 10%. Many universities have their indirect cost rate set by the NIH and so this is relevant for mathematicians working at those universities. Additionally, if such a cap were in place for the NIH, caps for other agencies could follow.

While the deadline is now pushed to December, the House and Senate Appropriations Committees have completed work on the fiscal year 2018 appropriations bills that fund the National Science Foundation. Both reject the Administration's proposed 11% reduction to the research agency. Both bills would provide approximately \$7.3 billion, a 2% decrease from the fiscal year 2017 level. These bills however, [differ](#) vastly in how the funds are distributed within the NSF and must be reconciled as (only a small) part of full budget decisions to be made.

Some House members continue to attempt to take autonomy away from the NSF and fund by directorate. Representative Lamar Smith has again attempted to move money out of Social, Behavioral and Economic Directorate and also from the Geosciences Directorate, and Representative Jacky Rosen (NV-3) has attempted to move more into the Computer and Information Sciences and Engineering Directorate. While some proposed shifts (e.g., Smith's) could in fact benefit the mathematics community, the scientific community has remained united in opposition to allowing Congress to select winners and losers in science funding.

The White House has also issued its [memo](#) outlining its research and development budget priorities for FY2019; these priorities are intended to receive focus from the various federal agencies (including the NSF) as they develop their FY2019 budget requests. In summary, these priorities are military superiority; security against physical and cyber threats both at home and abroad; job creation in "emerging technology" fields; development of domestic energy sources and cost-lowering; and biomedical programs that improve health outcomes while lowering healthcare costs. This memo also highlights supporting innovation in early-stage research, maximizing inter-agency coordination, maintaining and modernizing research infrastructure, and improving STEM education.

The administration is proposing \$1 billion in support for STEM education at NSF in fiscal year 2018. Within that, the Education and Human Resources (EHR) Directorate would receive \$761 million, a \$119 million or 14% reduction from fiscal year 2017 levels. EHR would focus on three “*core research areas*” for fiscal year 2018: broadening participation and institutional capacity, learning environments, and STEM professional workforce development. Of particular note, this proposal reduces funding to \$247 million, 26% below the fiscal year 2016 level, for the Graduate Research Fellowship program, and would halve the number of new participants to 1,000. Again, though, Congress is treating these programs less harshly – the House proposal for EHR is for flat funding, while the Senate proposes a 2% decrease. The House and Senate have differences in [their responses](#) to President Trump’s overall STEM education proposals for NSF. Of note is the fact that the Senate report explicitly rejects the administration’s proposal to halve the number of new recipients of the Graduate Research Fellowship Program to 1000.

Under the president’s budget, not only are STEM programs at the NSF impacted, but education programs at the Department of Energy and Department of Defense would see deep cuts. The Offices of Education at NASA and the National Oceanic and Atmospheric Administration would be eliminated altogether. Two major grant programs at the Department of Education that states use to support STEM initiatives – the Student Support and Academic Enrichment Grants and the 21st Century Community Learning Centers – have also been targeted for elimination.

Finally, President Trump has [instructed](#) the Department of Education that STEM education – with a focus on computer science – will be a priority in doling out funds through existing discretionary grant programs. It’s a typical move by a presidential administration to advance policy goals. For example, the Obama administration put forward a priority to increase socioeconomic diversity in schools. As a result, school districts applying for federal grants would get points for proposing projects that sought to tackle segregation or concentrated poverty.

Other Legislative Priorities

Education

Senator Lamar Alexander (TN, chair of the Senate committee that covers education, a past president of the University of Tennessee, and a former U.S. Secretary of Education) has [stated](#) that his “top education priority this year is reauthorizing the Higher Education Act (HEA)”. It was last scheduled for reauthorization in 2013 but that has yet to happen. This legislation has two central purposes, to (1) strengthen the educational resources of our colleges and universities and (2) provide direct financial assistance for students pursuing higher education.

There continue to be [bills introduced](#) in Congress that push training in particular areas (notably computer science and cybersecurity), aim to build a robust STEM teacher corps, and/or have the goal of broadening participation in STEM fields. These bills probably have no chance of becoming laws themselves, but offer signals of the bill sponsors’ priorities that they will push to be a part of the next version of the HEA. We monitor these bills.

On a different front, Senators Tom Cotton (AR) and David Perdue (GA) have introduced their “[RAISE Act](#)” which would reduce legal immigration by half within 10 years. Particularly relevant for the mathematics community, the RAISE Act introduces a “point system,” whereby the government would decide who has “high skills” and would take power away from universities in making hiring decisions. President Trump is supporting this bill, and it fits with another proposal that would affect academia -- his promise to scrutinize the [H-1B visa program](#). Revenues from the H-1B visa program are used to build a domestic STEM labor force. As an example, the NSF’s Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program is [completely funded](#) by these revenues. These are all part of the president’s larger efforts on immigration and travel.

Open Access

Robert Harington, AMS Associate Executive Director and Head of the Publishing Division, and Washington Office Director Karen Saxe continue to work together and with the Government Affairs Task Force (GATF) on legislation and other policies that affect scholarly communication. He works with other umbrella groups on related issues (SSP, STEM, CHORUS, etc.).

As mentioned in the last report, America COMPETES Reauthorization Act of 2010 (Public Law 111-358, COMPETES = Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science), contained legislation that requires federal agencies with an annual extramural research expenditure of over \$100,000,000 to provide free public access to peer-reviewed journal articles based on this support. The COMPETES reauthorization is a major development in this area.

In July, Representative Michael Doyle (PA 14) introduced the Fair Access to Science and Technology Research Act of 2017 ([FASTR](#)); this bill has been introduced in previous congressional sessions. The Senate version was introduced a few days later, by Senator John Cornyn (TX). Both have bipartisan support. The GATF and AMS position is to support open access “done right” and therefore to oppose this legislation as it is now written.

This bill requires each federal agency with extramural research expenditures of over \$100 million to develop a federal research public access policy. It appears it is an effort to set into law (and strengthen) practices already in place, established in response to a 2013 White House [memo](#).

Immigration

Since President Trump has taken office, there has been increasing concern regarding the continuing ability for mathematicians, and others, to engage in “unfettered contact with colleagues from all over the world.” Since the last ECBT meeting, his September 4 order to end the Deferred Action for Childhood Arrivals (DACA) program has caused outcry, including from many in higher education. AMS President Ken Ribet issued a [statement](#) against the presidential order.

We continue to monitor the Administration’s actions affecting travel and immigration, and their effects on the mathematical, scientific, and higher education communities. The AMS Washington Office works in conjunction with the AAAS and other scientific societies on this AMS policy priority.

Other Activities of the Washington Office

Coalitions

The AMS Washington Office works with several coalitions. Within the mathematics community, we have close working relationships with those doing advocacy work for the Joint Policy Board for Mathematics (JPBM) member organizations (AMS, ASA, MAA and SIAM), and also with Conference Board of the Mathematical Sciences (CBMS). Other coalitions that the AMS is part of include the American Association for the Advancement of Science (AAAS), the Coalition for National Science Funding (CNSF), the Task Force on American Innovation (TFAI), NDD United, and the Government Affairs Task Force (GATF). Hill visits are made with these groups, with discussions focusing on the federal budget, AMS legislative priorities, and Executive Branch directives.

In September, JPBM issued a statement on the NSF's Big Ideas.

Connections within the Federal Government

In addition to making visits to Senate and House offices with the various coalitions, the AMS Washington Office Director makes visits on her own, establishing relationships with staff members. She also attends selected committee hearings, and meetings at the National Academies of Sciences, Engineering, and Medicine.

In September, Washington Office Director Karen Saxe met with Michael Kratsios, Deputy Assistant to the President and Deputy U.S. Chief Technology Officer in the Executive Office of the President. At this stage, this is the top appointment in the White House's Office of Science and Technology Policy (OSTP). This meeting was a rare and special opportunity to discuss White House and OSTP priorities in research and development, and in STEM education. The invitation from the White House was made to the AMS Washington Office Director and the MAA Executive Director together. Much of the conversation centered on OSTP's current work to prepare the 5-Year Federal STEM Strategic Plan, to be released in the summer of 2018. The previous 5-year plan was prepared by the Committee on STEM Education (CoSTEM) of the [National Science and Technology Council](#) (NSTC). We have been told that OSTP will staff PCAST only after an OSTP director is appointed; we continue work with OSTP to get the mathematical sciences represented on the new PCAST. As of this writing, all Senate-confirmed positions for OSTP remain vacant.

At the NSF, President Obama's appointed director France Córdova remains. Mathematician Jim Lewis is Acting Assistant Director of EHR. Michael Vogelius finished his term as DMS Division Director; Tie Luo is Acting DMS Division Director until a replacement is found.

A discussion document from the National Academies' ["Committee on Revitalizing Graduate STEM Education for the 21st Century"](#) was distributed for feedback. A subcommittee of the AMS Committee on Education submitted a response in September.

Fellowships

The AMS Washington Office manages two fellowship programs -- the AMS/AAAS Congressional Fellows Program and the AAAS Mass Media Science & Engineering Fellows Program. The 2017-18 Congressional

Fellow is Margaret Callahan. Margaret is working for Senator Amy Klobuchar (MN). Prior to beginning her fellowship, she was a visiting assistant professor at Emory University. The selection process for the 2018 AAAS Mass Media Science & Engineering Fellow will begin early next calendar year.

The AMS Congressional Fellow is only one of hundreds of AAAS fellows currently serving; each year one of the approximately 30 Congressional Fellows is sponsored by the AMS and there are another approximately 200 serving in the Executive branch. Fellows serve year-long assignments in the federal government and represent a broad range of backgrounds, disciplines, and career stages. We are pleased that the number of fellows who list “Mathematics/Statistics” as their discipline has increased and this year stands at seven. Executive branch placements of the others include at the NSF, USAID, and at the Department of Homeland Security.

Events on the Hill

The Washington Office hosts the annual AMS Congressional Lunch Briefing on Capitol Hill, typically in early December. This year we have begun hosting this jointly with MSRI, and offering two per year. The first joint briefing took place on June 28, 2017. The speaker was David Donoho of Stanford University. The next briefing will take place on December 6, 2017, and the speaker will be [Shafi Goldwasser](#) of M.I.T.

AMS Policy Committees

The Director of the Washington Office serves as staff liaison to two of the policy committees, the Committees on Education (CoE) and on Science Policy (CSP).

Joint Mathematics Meetings

The Washington Office organizes the annual AMS Department Chairs Workshop, which takes place the Tuesday prior to the official start of JMM, as well as several panels during the JMM.

Facilities

The AMS rents one floor of an old row house for its Washington Office. Over the past six months, extensive redecorating has taken place. Assistant Director Anita Benjamin has worked heroically to pull this together.

Future Plans for the AMS Washington Office

New Hire

At the time of this writing, we are reviewing applications for a new [Assistant to the Associate Executive Director](#).

We also have our first interns in place: Abby Quick, an American University Masters student studying mathematics, and Eliot Melder, an undergraduate at the University of Maryland with majors in mathematics and computer science, and a concentration in science diplomacy.

Grassroots Advocacy

Since last ECBT meeting, we are making very good headway on this priority. We have purchased SoftEdge, a powerful software for government relations. It provides an up to date legislator and staff database; tools to send email blasts, track bills and votes; and, once implemented, will integrate into our website, offering a seamless experience for AMS advocates. Chief Information Officer Tom Blythe and his staff have been instrumental in launching this initiative.

Blog & Website

Washington Office Director Karen Saxe posts blog pieces about every 2-3 weeks; these posts include information on activities in Congress that affect mathematics and the broader science community as well as opportunities for engaging with Congress and other policymakers. blogs.ams.org/capitalcurrents/

With the new hire and the new software in our division, and the branding and website efforts across the AMS, we have plans for a major overhaul of the Washington Office website.

*Karen Saxe
Associate Executive Director and
Director of Washington Office
October 20, 2017*

Report on the Membership Department

This report is available to members of the AMS ECBT, Council, and staff upon request to exdir@ams.org.

Determining the 2019 Individual Member Dues Recommendation to the Council

The procedure used for setting individual dues requires that discussions begin in year X, in order to set the dues rate for year X+2. The procedure for setting individual dues is the following:

- In November of year X, staff makes a recommendation about dues, guided by the principles described below. The ECBT then recommends a dues rate for year X+2 to the Council.
- In January of year X+1, the Council reviews the ECBT recommendation and sets the dues rate for year X+2.
- In May of year X+1, the Board of Trustees approves the dues set by Council.

In May 2015 the Board of Trustees approved the following principles to guide the setting of individual member dues:

Principle 1: The total revenue from individual and institutional dues should exceed the total net direct costs of the following membership related areas: privilege journals, members-only services, membership development, membership administration and governance, as reported to the Board of Trustees.

Principle 2: When an increase in dues rates is deemed to be appropriate, the following factors should guide the Council and the Board of Trustees in establishing the new dues rates:

- The current rate of inflation.
- The recent rate of growth in faculty salaries.
- The rate of growth in the net direct costs of the membership related areas listed in Principle 1.

Principle 3: A single increase in dues rates substantially beyond the level of the factors listed in Principle 2 should be avoided in favor of several successive moderate annual increases.

The Principles as Applied to 2019 Dues

As shown in the table below, the total revenue from individual and institutional dues exceeds the total net direct costs of the specified membership-related areas by a significant, though margin. Thus the requirements of Principle 1 have been met.

In the near future, we anticipate rising costs, and it is too early to see the results of the strategic plan's initiative on membership development. In accord with Principle 3, it is better to raise dues in small increments over the years rather than to raise them significantly all at once in the future, if dues once again no longer cover the net direct costs of membership activities. It is also important to note that the institutional dues provide other benefits that are a cost to the AMS, such as significant discounts on AMS products. Therefore, showing a significant margin associated with Principle 1 does not imply that AMS is benefitting excessively from institutional dues.

Dues Revenue and Net Direct Cost of Membership Activities (1,000's)

Year	Individual Dues Revenues	Institutional Dues Revenues	Net Direct Cost of Membership Activities	Surplus (Deficit) of Revenue over Costs
2016	1,215	1,215	(1,823)	607
2017 Projected	1,192	1,254	(2,090)	356
2018 Budget	1,172	1,283	(2,058)	397
2019- \$196	1,172	1,283	(2,058)	397
2019 - \$200	1,196	1,283	(2,058)	421
2019 - \$204	1,220	1,283	(2,058)	445

Explanatory Notes:

1. Membership Activities under Principle 1 are:
 - a) *Notices & Bulletin*,
 - b) Membership development and administration, and
 - c) Governance
2. The amounts are taken directly from the B-Pages, pages 5 through 7, as presented to the ABC.
3. 2017 dues revenue reflects projected amounts and 2018 dues revenue is as budgeted. The three scenarios presented for 2019 dues assume a paying membership similar to that budgeted for 2018.

Principles 2 and 3 describe the factors to be taken into consideration for the determination of the amount of a dues increase. Shown in the chart at the end of this attachment are the economic data related to growth in faculty salaries and general inflation. The data on salaries relate to the general ability of members and potential members to pay dues with total personal income. It seems prudent for a membership organization to increase dues at the same or slower rate than its members' salaries increase. As of the end of 2016 (the last year of actual data), the cumulative dues increase as of 2017 lags the salary increase in the AMS survey by more than five years. Similar results are seen if one uses the AAUP salary data, although the lag time and differences in the cumulative increases are smaller than the results using the AMS survey.

The data on inflation relate to the ability of members and potential members to pay dues from discretionary income. Again, it seems prudent for a membership organization to maintain the cumulative increase in dues in line with general inflation in the absence of any significant financial needs. It should be noted that dues for year X are generally paid by members in the last quarter of year X-1, so the inflationary effect of dues on discretionary income felt by the individual member is likely somewhere in between the cumulative increase of year X (dues paid during dues year) and X-1 (dues paid in advance).

Recommendation for 2019 dues

The staff makes four recommendations regarding individual dues rates:

1. That the salary cutoff for regular high/low rates be raised to \$90,000 for 2019;

Members whose professional income is less than the high/low dues cutoff pay three-fourths of the regular high dues rate (unless they are eligible for more deeply discounted rates). The cutoff was last changed in 2010, when it was increased from \$80,000 to \$85,000. As the chart at the end of this attachment indicates, this is a relatively long time for this figure to remain constant. As a result, even assistant professors may now be paying the “regular high” rate. For example, in 2016-2017, the first quartile salary for assistant professors in mathematics departments in public institutions that have large Ph.D. programs was \$86,700; for new assistant professors, it was \$86,300, and for associate professors it was \$89,300 (<https://www.ams.org/profession/data/annual-survey/2016Survey-FacultySalaries-Report.pdf>). All of these figures are above the current cutoff of \$85,000 but below the proposed cutoff of \$90,000. Raising the high/low cutoff will, for some members, ease the transition from the introductory rate (\$74 for 2018) to the regular rate.

2. That the regular high dues rate for 2019 be \$200;

In keeping with Principle 3, this recommendation would increase the “regular high” dues for 2019 by \$4 over the figure for 2018. Although \$200 may be a psychological barrier for some members, it is a barrier that will eventually have to be crossed. The impact of this change will be mitigated by increasing the high/low dues cutoff to \$90,000. As a result, members earning between \$85,000 and \$90,000 will see a decrease in their dues for 2019.

3. That the dues for affiliate members be increased to \$20 for 2019.

Members living in countries that are ranked by the World Bank as low- or middle-income are eligible for the “affiliate” dues rate. They receive only one privilege journal and must choose between the *Notices* and the *Bulletin*. The rules for this membership category were established in 1992, and the dues for it were set at \$16. They have not changed since that time, even though the regular high dues increased from \$108 to \$196 between 1992 and 2017. When a country moves into the high-income category, members residing there are offered five years of membership at the introductory rate. Raising the affiliate dues rate to \$20 will slightly reduce the “sticker shock” of that transition.

4. That the maximum number of AMS points that may be applied to dues for any year be equal to the number that would be needed, in order to pay that year’s affiliate dues rate.

Currently, members may use up to sixteen AMS points to pay all or part of their dues. In 2016 more than 60% of the affiliate members used AMS points in this way, as did about 15% of those paying one of the “regular” dues rates. If the recommended increase in #3 is approved, then this recommendation would raise to twenty the maximum number AMS points that can be applied to dues. To avoid having to make adjustments whenever the affiliate rate is raised, the staff recommends that these two figures be automatically linked.

*T. Christine Stevens, Associate Executive Director
Emily D. Riley, Chief Financial Officer
October 2017*

Factors for Consideration in Setting Individual Dues Rates for 2019

Academic Year Beginning	Faculty Salaries Data				Inflation Data			Regular High Dues Rates		
	AAUP Reports		AMS Annual Survey		Calendar Year	Annual Increase CPI-U	Cumulative Increase CPI-U	Actual Dues	Cumulative Increase	High/Low Cutoff
	Annual Increase	Cumulative Increase	Doctoral Departments	Cumulative Increase						
1996	3.0%				1996	3.3%		120		45,000
1997	3.3%	3.3%	2.7%	2.7%	1997	1.7%	1.7%	124	3.3%	45,000
1998	3.6%	7.0%	3.8%	6.6%	1998	1.6%	3.3%	128	6.7%	45,000
1999	3.7%	11.0%	3.8%	10.7%	1999	2.7%	6.1%	132	10.0%	55,000
2000	3.5%	14.9%	5.0%	16.2%	2000	3.4%	9.7%	132	10.0%	65,000
2001	3.8%	19.2%	4.2%	21.1%	2001	1.6%	11.4%	136	13.3%	75,000
2002	3.0%	22.8%	3.3%	25.1%	2002	2.4%	14.1%	140	16.7%	75,000
2003	2.1%	25.4%	2.0%	27.6%	2003	1.9%	16.2%	144	20.0%	75,000
2004	2.8%	28.9%	2.2%	30.4%	2004	3.3%	20.0%	148	23.3%	80,000
2005	3.1%	32.9%	4.0%	35.6%	2005	3.4%	24.1%	152	26.7%	80,000
2006	3.8%	37.9%	3.5%	40.2%	2006	2.5%	27.2%	152	26.7%	80,000
2007	3.8%	43.2%	4.2%	46.1%	2007	4.1%	32.4%	156	30.0%	80,000
2008	3.4%	48.0%	1.6%	48.5%	2008	0.1%	32.6%	160	33.3%	80,000
2009	1.2%	49.8%	3.0%	53.0%	2009	2.7%	36.1%	164	36.7%	80,000
2010	1.4%	51.9%	0.7%	54.1%	2010	1.5%	38.2%	168	40.0%	85,000
2011	1.8%	54.6%	3.6%	59.6%	2011	3.0%	42.3%	168	40.0%	85,000
2012	1.7%	57.2%	1.3%	61.7%	2012	1.7%	44.7%	172	43.3%	85,000
2013	2.2%	60.7%	1.8%	64.6%	2013	1.5%	46.9%	176	46.7%	85,000
2014	2.2%	64.2%	3.0%	69.5%	2014	0.8%	48.1%	180	50.0%	85,000
2015	2.6%	68.5%	4.4%	77.0%	2015	0.7%	49.1%	184	53.3%	85,000
2016			3.0%	82.2%	2016	2.1%	52.2%	188	56.7%	85,000
					2017 proj	2.0%	55.2%	192	60.0%	85,000
					2018 est	2.0%	58.3%	196	63.3%	85,000
					2019	2.0%	61.5%	196	63.3%	90,000
					2019	2.0%	61.5%	200	66.7%	90,000
					2019	2.0%	61.5%	204	70.0%	90,000

Explanatory Notes:

1. AAUP data: Percentage increase in average nominal salaries for institutions reporting comparable data for adjacent one-year periods.
2. CPI-U data: Based on the Dec. to Dec. annual change in the index, with estimates for 2017, 2018, and 2019.

Update on Proposals Planned, Submitted, or Deferred

Planned

There are no new proposals for which ECBT approval is sought.

Submitted

Travel Support for U.S. Participants in ICM 2018

- The ECBT approved submission of this proposal at its May 2017 meeting.
- Submitted to the Infrastructure Program in the NSF Division of Mathematical Sciences.
- Award of \$297,000 made on October 24, 2017.

The NSF made an award of \$297,000 on October 24, 2017. It will provide travel grants to approximately ninety U.S. mathematicians to attend the International Congress of Mathematicians (ICM) in Rio de Janeiro on August 1-9, 2018. Priority will be given to early-career mathematicians.

Deferred

Travel Support for the AMS *Math in Moscow* Scholarship Program

- The ECBT approved the submission of this proposal at the November 2015 meeting.
- Funding request of about \$320,000
- To be submitted to the DMS Infrastructure Program (co-funded)

The Division of Mathematical Sciences at the NSF classifies a proposal for *Math in Moscow* scholarships as an “unsolicited training project.” According to NSF guidelines, such projects must “include a core mathematical sciences research component for trainees.” Although the *Math in Moscow* program does not currently contain a research component, the IUM faculty is developing one. The NSF accepts proposals for unsolicited training projects once per year, and the next target date is in December 2017. The staff is working with representatives of IUM to determine whether to submit a proposal.

NSF INCLUDES Alliance: Inclusive Graduate Education (IGEN)

- The ECBT approved submission of this proposal at its May 2017 meeting.
- Collaborative proposal with the American Physical Society and other professional organizations
- To be submitted to the National Science Foundation INCLUDES Alliance program
- The AMS portion of the proposal is likely to be about \$2.5 million over a five-year period.

The American Physical Society (APS) has invited the AMS, the American Chemical Society, and the American Geophysical Union to join them in submitting a collaborative proposal to increase the number of students from under-represented minorities who complete Ph.D.'s in these fields. The proposal will be submitted in response to an expected solicitation from the NSF that has not yet appeared.

A workshop about strategies for assisting graduate students to pursue BIG careers

- The ECBT approved submission of this proposal at its May 2017 meeting.
- To be submitted to the Infrastructure Program in the NSF Division of Mathematical Sciences
- A request up to \$115,000 is likely.

NSF program officers had previously expressed an interest in having the AMS organize a workshop to develop strategies for making graduate students aware of opportunities in business, government, and industry (BIG) and providing them with the necessary preparation for such careers. Staff are now in consultation with the NSF to determine where this project might fit in, in the current budgetary environment.

*T. Christine Stevens
Associate Executive Director
October 24, 2017*



Current AMS Graduate Student Chapters:

1. Adelphi University
2. Arizona State University
3. Baylor University
4. Boston College
5. Boston University
6. Brown University
7. Bryn Mawr College
8. California State University San Marcos
9. Central Michigan University
10. Clemson University
11. Colorado State University
12. Duke University
13. Florida Atlantic University
14. Florida Institute of Technology
15. Georgia Institute of Technology
16. Georgia State University
17. Indiana University - Purdue University Indianapolis
18. Kansas State University
19. North Carolina State University
20. Oklahoma State University
21. Purdue University
22. Rutgers University
23. Sam Houston State University
24. Stony Brook University
25. SUNY New Paltz
26. Syracuse University
27. Texas A&M University
28. Tufts University
29. Tulane University
30. University at Albany
31. University of British Columbia
32. University of Calgary
33. University of California, Riverside
34. University of Colorado at Boulder
35. University of Georgia
36. University of Houston
37. University of Illinois at Chicago
38. University of Illinois at Urbana Champaign *
39. University of Kansas
40. University of Louisiana at Lafayette
41. University of Maryland, College Park
42. University of Miami
43. University of Minnesota
44. University of Mississippi
45. University of Missouri-Columbia
46. University of Missouri-Kansas City
47. University of Nebraska-Lincoln
48. University of New Orleans
49. University of North Carolina Chapel Hill
50. University of Rochester
51. University of Wisconsin-Madison
52. Washington State University
53. Wesleyan University
54. Western Kentucky University
55. Williams College

A petition from University of Louisville is pending approval.

** Chapters added since May 2017 ECBT meeting*

AMS Graduate Student Chapters in 2017:

After successfully hosting the second annual Student Chapter Luncheon at JMM17 and receiving feedback from students, the Membership Department has implemented several different tools for increased engagement. A Student Chapter Facebook group was created and members were invited to join, interact with others, and receive important news and updates from the AMS. The launching of the Chapter Newsletter also gave students the opportunity to post news about their chapter and promote their upcoming events. A Graduate Student Chapter and President profile advertisement spread is now included in AMS Notices as well.

Additionally, we will work with the Information Services Department to move the Chapter database onto the Personify database. This will allow for us to collect and retain better data on graduate student members and participants of the Graduate Student Chapters Program. For years, the AMS was not collecting information on all Chapter participants, rather we just have leadership information. Since this Department wishes to focus on young member engagement, we believe this will help AMS communicate better with that demographic.

Lastly, the Department will work to increase the Program's visibility by mailing details and posters to current and potential participants. We continue to brainstorm about how we might incentivize faculty members to support Chapter efforts. One such method may be through the AMS' Government Affairs and Programs department, who hope to launch a new grassroots online program soon. Chapter involvement in grassroots will provide visibility to the institution, which may drum up further verbal support and participation from faculty.

JMM 2018 in San Diego, CA:

AMS Executive Director Catherine Roberts will be a guest speaker at the Chapter Luncheon and will touch base on the topic of Leadership Development. About 2-3 members from each chapter will be invited to join.

JMM 2019 in Baltimore, MD:

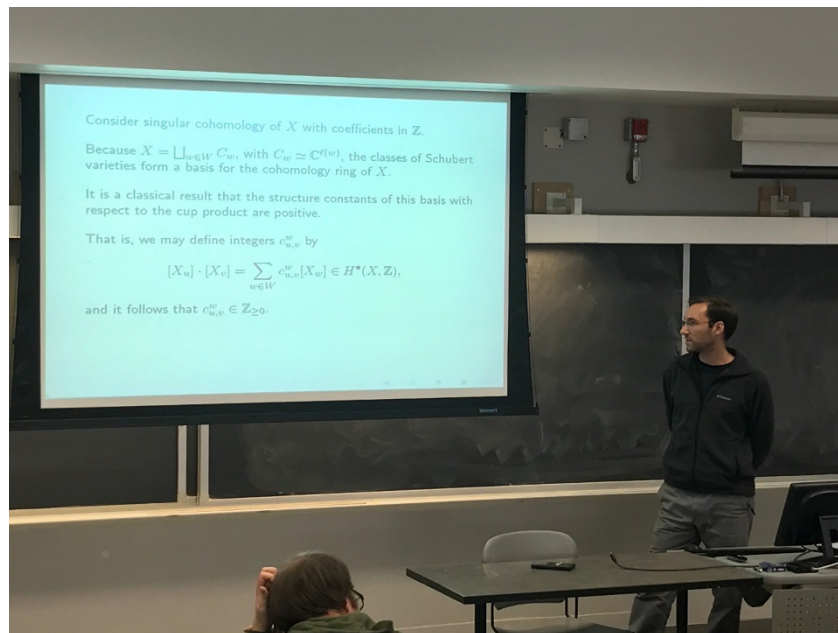
In addition to the Chapter Luncheon, the Membership Department anticipates on coordinating new events at JMM: 1) AMS Graduate Student Chapter Social, where graduate students may meet to network with one another. 2) AMS Graduate Student Chapter Learning Session, where a chapter will be asked organize a one hour educational event for the opportunity to receive additional Chapter funding. For both events, the Membership Department will work with the Chapter on coordination and marketing. The Membership Department will fund AV as needed and the room rental for the Learning Session, but will not fund the Social event.

Bryn Mawr College:



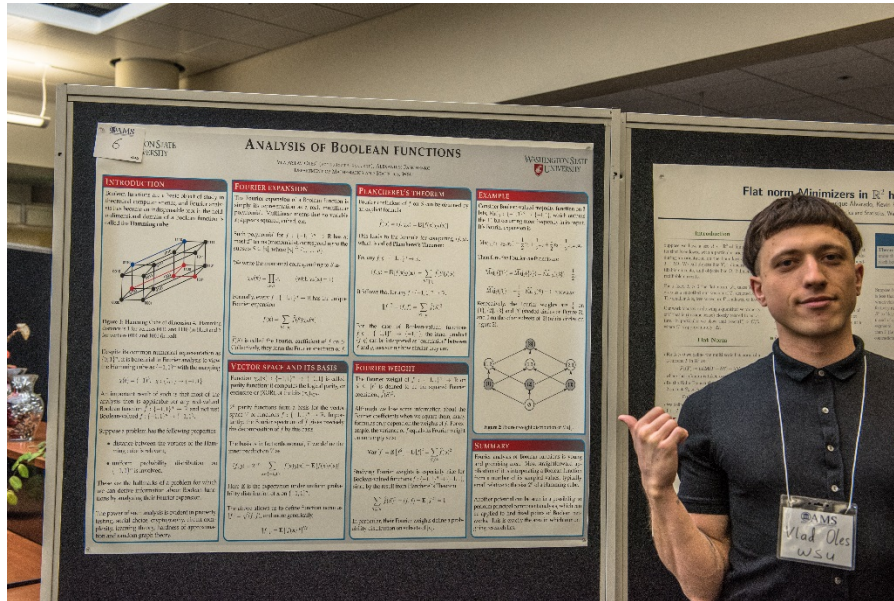
“Best Practices” for attending professional conferences: Samantha Pezzimenti and Hannah Schwartz led members of the graduate programs in Chemistry, Mathematics and Physics in compiling a list of helpful tips for students regarding what they should do before, during, and after attending a professional conference. Hannah and Samantha based the format of their seminar on a similar session they attended this past summer at the Georgia Tech Topology Students Workshop.”

University of North Carolina – Chapel Hill:



“Our AMS chapter acted as the sponsor for the third Triangle Area Graduate Mathematics Conference (TAGMaC). The conference included an opening talk by Dr. Seth Sullivant, followed by parallel sessions in which graduate students from Duke University, North Carolina State University, and UNC-CH could present their research to their peers. The conference also included an early-career job panel.”

Washington State University:

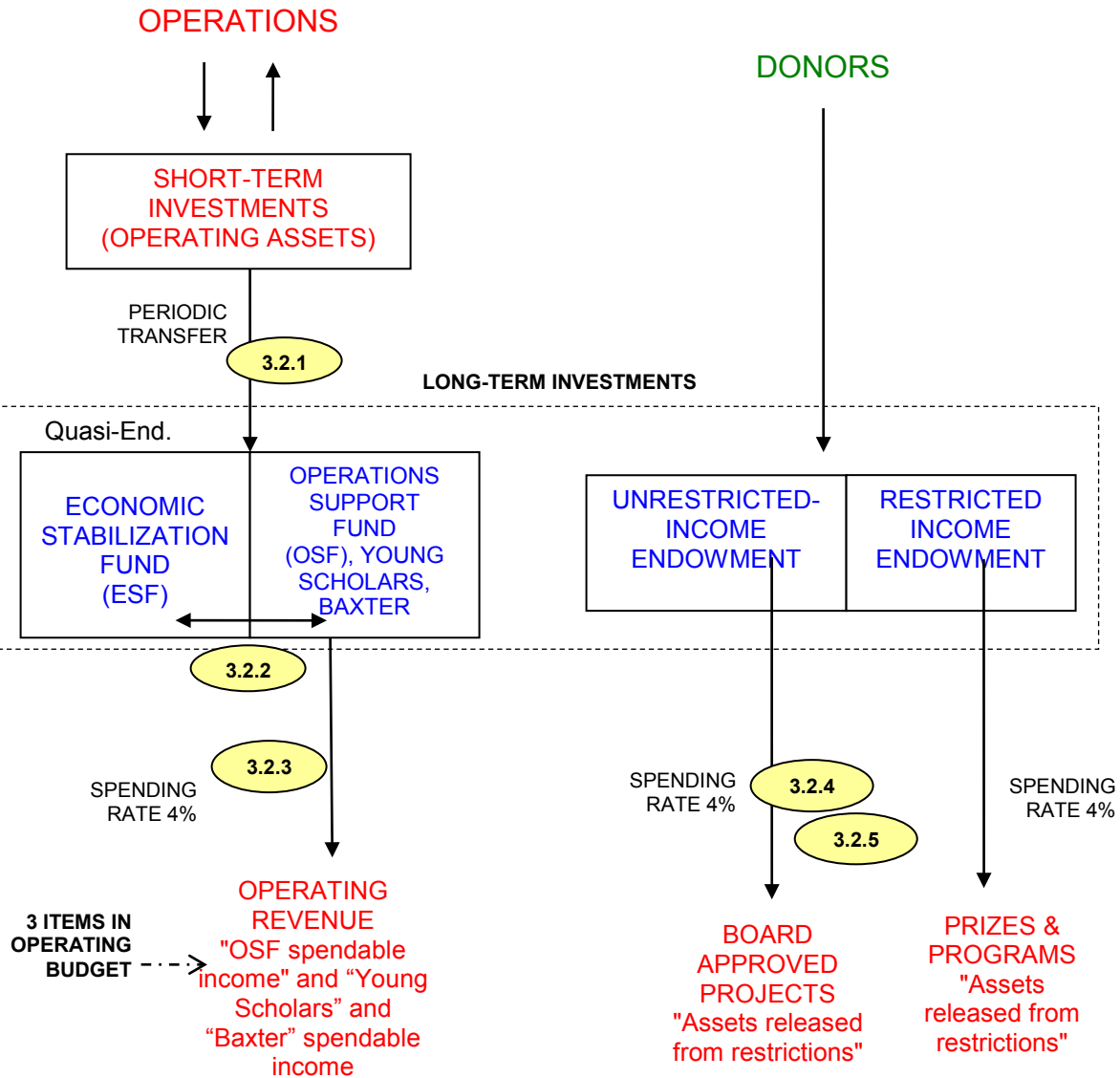


“Poster Competition: To end the semester, we held a poster competition along with the organizers of the “Early Career Poster Session” held at the AMS Western Sectional Meeting at WSU. To participate, members had to submit abstracts to the organizers of the session and if accepted would participate in the competition. Faculty judges judged the posters and concluded with a three-way tie. There was a wide variety of posters in a wide range of mathematical and statistical topics.”

Megan E. Turcotte, Director of Membership
October 2017

AMS Long-term Investments Cliffs Notes

(For details, see section D of Fiscal Reports)



ESF = 50% annual operating expenses + unfunded medical liability (APBO) + Flood self-Insurance (\$1,700,000 in 2014)

OSF = quasi-endowment (spending on average of 4 year-end balances)
 Rebalanced annually, December 31

Note: Spendable income from true endowment funds held in Temp Restricted net assets and 'released' to operations as related expenses are incurred.

Values as of:	12/31/16	12/31/15
ESF	\$ 24.2 M	\$29.4 M
OSF	94.6 M	78.4 M
Unrestricted	8.2 M	7.9 M
Restricted	7.9 M	6.8 M

Appropriated Spendable Income

Each year, the Board approves a list of designated projects that are paid for (in part) by spendable income from the unrestricted endowment. Projects are selected to represent a variety of activities supporting mathematics that are consistent with the mission of the Society.

Here are brief descriptions of the projects recommended for possible 2018 appropriations. The Board is encouraged to consider alternative allocations. To assist with this, the next attachment (#22) is a list of twenty programs that have received allocations from the Appropriated Spendable Income in prior years. This list was originally prepared at the request of the BT by the Chief Financial Officer for the May 2017 ECBT. Note that the unfunded Mathematical Research Communities costs that the appropriated spendable income funded in the past are now being covered by the Beal Fund.

AMS Congressional Fellow (\$85,000)

For many years now the AMS has supported a congressional fellow. Fellows are placed in a congressional office (or equivalent) and spend a year serving that office. Fellows do NOT represent the AMS, but they provide mathematical expertise, in addition to gaining government expertise themselves. The goal is to build a cadre of knowledgeable mathematicians who can serve the interests of mathematics, either inside or outside government.

Support of arXiv (\$3,000)

The arXiv is supported by members who pay annual fees based on usage and by other supporters. Only educational institutions can become members. The ECBT voted to support the arXiv at the level of \$3,000 per year for five years (2016-2020) to become the first professional society and publisher supporter.

Centennial Fellow (\$45,000)

The revenue from donations to the support of the Centennial Fellowship is no longer adequate to fully support one Fellow. This appropriation will supplement funds from (i) current donations and (ii) spendable income from the small endowment fund in order to support the Centennial Fellow.

Programs of the Department of Education and Diversity (\$15,000)

These funds will enable the new department to offer direct support to programs such as EDGE, selected REUs, SACNAS and the National Alliance for Doctoral Studies in the Mathematical Sciences that promote diversity in graduate education.

AMS-AAAS Mass Media Fellow (\$10,000)

For more than 15 years, the AMS has supported a graduate student participant in this widely recognized program run by the American Association for the Advancement of Science. The student is placed in a media outlet during the summer and gains experience while providing scientific expertise. The former media fellows frequently contribute to the work of the Public Awareness Office.

AMS Graduate Student Chapters (\$40,000)

There are now almost 60 active AMS Graduate Student Chapters. Each one receives up to \$500 per year for support of chapter activities, and large chapters with extensive activities can request an additional \$500. Some funds are received as donations, but the donations need to be supplemented from operating funds. Attachment #XX contains a report on the student chapter program.

MathJax Development and eBook Innovation (\$20,000)

MathJax is server-based software for rendering LaTeX expressions into mathematical expressions that can be displayed by standard web browsers and by ebook applications. MathJax development is supported jointly by the AMS and SIAM. In 2013, the AMS became the managing member of the MathJax joint venture. Since its release in 2010, MathJax has gained a broad group of users and financial supporters. A current priority for ongoing development is to adapt MathJax to the ePub3 standard for electronic books. This holds great promise for displaying mathematics with free flowing text, which is important for the quality of display of mathematics on small screen devices.

Project NExT (\$15,000)

Project NExT is a professional development program of the MAA for new or recent PhDs in the mathematical sciences that addresses all aspects of an academic career. Each year the AMS sponsors six Project NExT Fellows who are affiliated with PhD-granting departments and/or show promise in mathematics research.

IMU Volunteer Lecturer Program (\$5,000)

In accordance with the previous approval by the ECBT, the AMS contributes \$5,000 each year to support the Volunteer Lecturer Program of the IMU's Commission for Developing Countries. The funds support expenses of the volunteer lecturer and of the participating students.

What's Happening in Mathematical Sciences (\$20,000)

The goal of this series is to shed light on topics on the leading edge of mathematical research in a way that is accessible to a scientifically literate reader. Direct costs of producing a volume are about \$50,000. Currently, this volume is published once every two years. While AMS sells some copies, most are given away.

Birman Fellowship (\$30,000)

The new Joan and Joseph Birman Fellowship for Women Scholars is a mid-career research fellowship specially designed to fit the unique needs of women. The fellowship of \$50,000 annually has received partial funding from Joan and Joseph Birman. The additional \$20,000 in funding for 2018 will come from unused appropriated funds from 2017.

Travel Grant Support for MCA 2021 (\$10,000)

Subject to the approval of the ECBT, the AMS will contribute to the pool of funds to be used to support travel expenses of early career mathematical scientists from Latin America to participate in MCA 2021.

The recommendations above total \$298,000.

*Catherine Roberts, Executive Director
Emily Riley, Chief Financial Officer
November 1, 2017*

**Projects that have Received Appropriated Spendable Income During the Last Five Years
(2013-2017)**

This list was originally presented to the Board in May 2017

Support for AMS programs comes from a variety of sources, such as grants, donations, and income generated from specifically restricted funds. A portion of our endowment generates income that is not restricted. The Board of Trustees decides how to allocate these spendable funds. The programs these funds support vary from year-to-year, based on other available resources. In November 2016, the Board of Trustees requested a list of projects that are considered for support with income generated by our unrestricted endowment. Two programs that need this funding consistently are the Congressional Fellow and the Centennial Fellow. It is difficult to do fundraising for these programs. The following are other projects that the Board of Trustees has considered over the past five years:

Fellows of the American Mathematical Society (\$10,000)

The selection and induction of new Fellows are expected to incur total expenses of approximately \$10,000 in 2017. The budgeting of some revenue from unrestricted endowment will offset part of the recurrent expenses.

AMS Congressional Fellow (\$80,000)

For several years now the AMS has supported a congressional fellow. Fellows are placed in a congressional office (or equivalent) and spend a year serving that office. Fellows do NOT represent the AMS, but they provide mathematical expertise, in addition to gaining government expertise themselves. The goal is to build a cadre of knowledgeable mathematicians who can serve the interests of mathematics, either inside or outside government. The AAAS and other professional organizations also sponsor fellows. Interest by members of Congress to host fellows on their staff to advise them on science and education issues is growing. If the Board of Trustees ever wanted to add a second AMS Congressional Fellow, it would be funded in the same way.

The Golden Goose Award (\$6,000)

The purpose of the “Golden Goose” award is to demonstrate the human and/or economic benefits of federally funded research. It is also intended to demonstrate that scientific outcomes build upon each other and that the technological advances that flow from them cannot easily be predicted at the outset of a particular scientific research project. The AMS has been supporting the Golden Goose awards at the level of \$6,000 per year, which includes a \$5,000 sponsorship and a \$1,000 video sponsorship.

Support of arXiv (\$3,000)

The arXiv is supported by members who pay annual fees based on usage and by other supporters. Only educational institutions can become members. The ECBT voted to support the arXiv at the level of \$3,000 per year for five years (2016-2020) to become the first professional society and publisher supporter.

**Projects that have Received Appropriated Spendable Income During the Last Five Years
(2013-2017)**

This list was originally presented to the Board in May 2017

Centennial Fellow (\$50,000)

The revenue from donations to the support of the Centennial Fellowship is no longer adequate to fully support one Fellow. This appropriation will supplement funds from (i) current donations and (ii) spendable income from the small endowment fund in order to support the Centennial Fellow.

SACNAS Sponsorship and Participation (\$7,000)

The AMS continues to support the work of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS). The AMS sponsors a scientific session at the SACNAS annual meeting and staffs a booth.

Programs of the Department of Education and Diversity (\$50,000)

During 2017, these funds will enable the new department to offer direct support to programs such as EDGE, selected REUs, and the National Alliance for Doctoral Studies in the Mathematical Sciences that promote diversity in graduate education. The support may include access to AMS services such as MathPrograms.org as well as modest contributions.

AMS-AAAS Mass Media Fellow (\$10,000)

For more than 15 years, the AMS has supported a graduate student participant in this widely recognized program run by the American Association for the Advancement of Science. The student is placed in a media outlet during the summer and gains experience while providing scientific expertise. The former media fellows frequently contribute to the work of the Public Awareness Office.

AMS Graduate Student Chapters (\$15,000)

There are now 41 active AMS Graduate Student Chapters. Each one receives up to \$500 per year for support of chapter activities. Some funds are received as donations, but the donations need to be supplemented from operating funds. The program is described at <http://www.ams.org/programs/studentchapters>. In 2016, we provided about \$30,000 in funding to support student chapters, but only about \$2,000 to \$3,000 of these costs are covered by donations.

MathJax Development and eBook Innovation (\$20,000)

MathJax is server-based software for rendering LaTeX expressions into mathematical expressions that can be displayed by standard web browsers and by ebook applications. MathJax development is supported jointly by the AMS and SIAM. In 2013, the AMS became the managing member of the MathJax joint venture. Since its release in 2010, MathJax has gained a broad group of users and financial supporters. A current priority for ongoing development is to adapt MathJax to the ePub3 standard for electronic books. This holds great promise for displaying mathematics with free flowing text, which is important for the quality of display of mathematics on small screen devices.

**Projects that have Received Appropriated Spendable Income During the Last Five Years
(2013-2017)**

This list was originally presented to the Board in May 2017

Project NExT (\$15,000)

Project NExT is a professional development program of the MAA for new or recent PhDs in the mathematical sciences that addresses all aspects of an academic career. Each year the AMS sponsors six Project NExT Fellows who are affiliated with PhD-granting institutions and who show promise in mathematics research.

IMU Volunteer Lecturer Program (\$5,000)

In accordance with the previous approval by the ECBT, the AMS contributes \$5,000 each year to support the Volunteer Lecturer Program of the IMU's Commission for Developing Countries. The funds support expenses of the volunteer lecturer and of the participating students.

Travel Grant Support for MCA2017 (\$10,000)

The ECBT has approved a contribution of \$40,000 to the pool of funds to be used to support travel expenses of early career mathematical scientists from Latin America to participate in MCA2017. The contribution will be made in 2017 and this \$10,000 is a portion of the total amount.

Mathematics Research Communities¹

The MRC program is funded (mainly) by a grant from the National Science Foundation, which pays for participant support and the basic cost of operation. We found in the past three years, however, that having a budget for extras not covered by the NSF grant greatly enriched the program. MRC promises to be a gem in the Society's outreach programs, and investing some extra money in those extras will pay great dividends in the future. Areas that have been funded are (i) modest support for follow-up collaboration by participants of MRCs in prior years and (ii) partial support by the AMS of participants from abroad. We have also spent some funds on costs that NSF no longer covers, such as honorariums for session leaders.

Activity Groups

The Committee on the Profession recommended to the Council that final approval be given at the January 2013 meeting to start a program of AMS Activity Groups. Ongoing support of Activity Groups will rely on collaboration and professional networking software licensed from Higher Logic. The allocated funding offset some of the first year's expense. Direct costs are about \$60,000.

¹ The unfunded Mathematics Research Communities costs that the appropriated spendable income funded in the past are now being covered by the Beal Fund.

**Projects that have Received Appropriated Spendable Income During the Last Five Years
(2013-2017)**

This list was originally presented to the Board in May 2017

What's Happening in Mathematical Sciences

The goal of this series is to shed light on topics on the leading edge of mathematical research in a way that is accessible to a scientifically literate reader. Direct costs of producing a volume are about \$50,000. We currently publish this volume once every two years. While we sell some copies, many are given away.

Book and Journal Donations

This program was originally funded by contributions from the Stroock Family Foundation, and it pays for shipping of donated books and journals to institutions in developing countries. Interest for donated journals has waned, but there may still be interest in donated books. Costs are about \$2,000 to \$3,000 per year.

Task Force on American Innovation

Every year, the AMS give \$5,000 to the Task Force on American Innovation, which is a coalition of businesses, scientific societies, and business and university organizations, who strongly urge Congress to support American innovation and key agencies supporting scientific research.

National Mathematical Reviews (MathSciNet) for Developing Countries

Every year, the AMS gives free subscriptions of MathSciNet to developing countries. Some fundraising is done to cover the costs of this project, but in recent years, we are not covering the full costs of this project. Costs are about \$10,000 per year, with \$3,000 to \$5,000 being covered by donations.

Who Wants to Be a Mathematician

The costs of this national mathematics game run by the AMS Public Awareness office are not fully covered. Direct costs of prizes and travel for participants are about \$60,000. Currently, about a third of the direct costs are covered by an annual donation.

*Emily Riley, Chief Financial Officer
May 2017*

American Mathematical Society
Audit and Risk Committee
Page 1 of 3

General Description

- Committee is a standing committee of the Board of Trustees.
- Number of members is four, consisting of the Treasurer, the Associate Treasurer, the third-year elected Trustee, and the Chair of the Board of Trustees. The Chair of the Board of Trustees may expand membership to include the entire Board.
- The Chair is the Treasurer.

Responsibility

The Committee's primary responsibility is to assist the Board in fulfilling its oversight responsibilities with respect to (i) the audit of the Society's books and records; and (ii) the system of internal controls that the Society has established. The Committee should have a clear understanding with the outside auditors that they must maintain an open and transparent relationship with the Committee, and that the ultimate accountability of the outside auditors is to the Board and the Committee. In addition, the Committee will be responsible for overseeing the enterprise risk management of the organization. Enterprise risk management includes overseeing the operational business risk issues affecting the Society, such as data security, financial, and other operational risks. The Committee will ensure that the management of these risks remains robust, appropriate and effective. The Committee will make regular reports to the Board concerning its activities.

Principal Activities

The Audit and Risk Committee meets annually with the outside auditors to review the annual audit of the financial statements, and report their findings to the full Board. A written report of their findings is prepared for inclusion in the minutes of the applicable meeting of the Board.

During the course of their work members of the Committee endeavor to determine that the auditors were independent, that they conducted their audit in accordance with generally accepted professional standards, that their audit complied with any applicable governmental regulations, that they were given access to all the books and records of the Society, and that staff were responsive to all reasonable requests for information and assistance.

The Board of Trustees has directed that the audit partner and/or manager for the annual audit "should be changed on a regular basis." A guideline interval for changes is 6 to 8 years, although the Board did not fix a number. There should be a standing item on every Audit Committee Audit and Risk Committee agenda to discuss the possibility of changing.

The Audit and Risk Committee will review the AMS's key policies and processes for identifying and assessing business risks and the managements of these risks. The Committee will review the outcome of various risk programs across the organization, and assess the adequacy of the levels of insurance maintained to cover certain risks.

American Mathematical Society
Audit Committee
Page 2 of 3

Starting in May 2007, the entire Board will meet with the auditors every four years.

Audit and Risk Committee meetings should be scheduled as close to the start of the ECBT meeting as possible, so that it is maximally convenient for any interested Trustee to attend.

Other Activities

From time to time the ~~Audit Committee~~Audit and Risk Committee may conduct or oversee independent investigations into accounting matters and otherwise carry out functions consistent with their overall responsibilities and the requirements of the Board of Trustees.

Staff Support and Liaison

The Chief Financial Officer and the Executive Director are responsible for working with the Committee and providing assistance to the Committee when deemed necessary.

Authorization

12/70 ECBT Minutes, pg. 7, #39

The Board of Trustees approved the recommendation of the Treasurer that a Committee on the Audit be established, the members be appointed from the Board with the Treasurer and Assistant Treasurer not being eligible for appointment.

11/89 ECBT Minutes, pg. 14, #7.10

The Board of Trustees approved the ABC's recommendation that the third and fourth year Trustees serve on this Committee.

5/90 ECBT Minutes, pg. 6, #3.8

The Board of Trustees approved the ABC's recommendation that the members of the Audit Committee be the Chair of the Board of Trustees and the Treasurer.

11/02 ECBT Minutes, item 3.6

Charge and membership of Committee changed. Members now are Treasurer (Chair), Associate Treasurer, Chair of Board of Trustees.

5/04 ECBT Minutes, item 3.4

Membership of Committee changed. Members are now Treasurer (Chair), Associate Treasurer, Chair of Board of Trustees, third-year elected Trustee. Starting in May 2007, the entire Board will meet with the auditors every four years. Audit Committee meetings should be scheduled as close to the start of the ECBT meeting as possible, so that it is maximally convenient for any interested Trustee to attend.

11/05 ECBT Executive Session Minutes, item 3E.2

Board of Trustees directs that the audit partner and/or manager for the annual audit "should be changed on a regular basis."

American Mathematical Society
Audit and Risk Committee
Page 3 of 3

Note to the Chair

Committee chairs should be informed, at the beginning of each fiscal period, the budget of their committees and cautioned to remain within the budget. Such items as travel reimbursement to, accommodations for, and meals for guests of any kind fall within these budgets.

Work done by committees on recurring problems may have value as precedent or work done may have historical interest. Because of this, the Council has requested that a central file system be maintained for the Society by the Secretary. Committees are reminded that a copy of every sheet of paper should be deposited (say once a year) in this central file. Confidential material should be noted, so that it can be handled in a confidential manner.

Past Members

A complete list of past members is available here:
<http://www.ams.org/about-us/governance/committees/audit-past.html>

**BOARD OF TRUSTEES
STANDING COMMITTEES**

AGENDA AND BUDGET COMMITTEE (charge)

(as of February 1, 2018)

Kenneth Ribet, Chair (ex officio - President)

Jane Hawkins (ex officio - Treasurer)

Zbigniew Nitecki (ex officio - Associate Treasurer)

Carla Savage (ex officio - Secretary)

Joseph Silverman (ex officio - Chair of BT)

AUDIT AND RISK COMMITTEE (charge)

(as of February 1, 2018)

Jane Hawkins, Chair (ex officio - Treasurer)

Bryna Kra (ex officio – third-year Trustee/incoming Chair of BT)

Zbigniew Nitecki (ex officio – Associate Treasurer)

Joseph Silverman (ex officio - Chair of BT)

INVESTMENT COMMITTEE (charge)

(as of February 1, 2018)

Jane Hawkins, Chair (ex officio - Treasurer)

Robert Lazarsfeld (February 1, 2016 - January 31, 2019)

Zbigniew Nitecki (ex officio - Associate Treasurer)

Rob Taylor (February 1, 2016 - January 31, 2019)

LIAISON COMMITTEE (charge)

(NOT A BT COMMITTEE, BUT LISTED HERE FOR CONVENIENCE)

(as of February 1, 2018)

Kenneth Ribet, Chair (ex officio - President)

Jane Hawkins (ex officio - Treasurer)

Carla Savage (ex officio - Secretary)

Joseph Silverman (ex officio - Chair of BT)

RETIREMENT PLAN INVESTMENT COMMITTEE (charge)

(as of February 1, 2018)

Tammy Walsh, Chair (ex officio – Director of Human Resources)

Denise Lima (AMS Staff Member)

Zbigniew Nitecki (ex officio – Associate Treasurer)

Emily Riley (ex officio – Chief Financial Officer)

AMS Staff Member to be appointed

SALARY COMMITTEE (charge)

(as of February 1, 2018)

Jane Hawkins, Chair (ex officio - Treasurer)

Zbigniew Nitecki (ex officio - Associate Treasurer)

Joseph Silverman (ex officio - Chair of BT)

**EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES
STANDING COMMITTEES**

DEVELOPMENT COMMITTEE (charge)

(as of February 1, 2018)

Robert Lazarsfeld, Chair (ex officio – fifth-year Trustee)

Jane Hawkins (ex officio - Treasurer)

Kenneth Ribet (ex officio - President)

Catherine Roberts (ex officio - Executive Director)

Carla Savage (ex officio - Secretary)

Joseph Silverman (ex officio - Chair of BT)

LONG RANGE PLANNING COMMITTEE (charge)

(as of February 1, 2018)

Kenneth Ribet, Chair (ex officio - President)

Alejandro Adem (ex officio - third-year member of EC)

Jane Hawkins (ex officio - Treasurer)

Bryna Kra (ex officio – third-year Trustee/incoming Chair of BT)

Catherine Roberts (ex officio - Executive Director)

Carla Savage (ex officio - Secretary)

Joseph Silverman (ex officio - Chair of BT)

Ravi Vakil (ex officio - second-year member of EC)

ECBT NOMINATING COMMITTEE (charge)

(as of February 1, 2018)

Bryna Kra, Chair (ex officio - third-year member of BT)

Alejandro Adem (ex officio - third-year member of EC)

Shelly Harvey (ex officio – Chair of Council Nominating Committee)

NOTE: When the position of Secretary is under consideration, the Treasurer is a member of this Committee. When the position of Treasurer is under consideration, the Secretary is a member of this Committee.

**TRUSTEE APPOINTMENTS TO POLICY COMMITTEES FOR 2017
(February 1, 2018 – January 31, 2019)¹**

COMMITTEE ON EDUCATION

Bryna Kra (third-year Trustee)

Next Meeting: October 11-13, 2018 (Thursday-Saturday) in Washington, DC

Current Members/Committee Charge:

www.ams.org/about-us/governance/committees/comm-all.html#COE

Committee Web Page: www.ams.org/about-us/governance/committees/coe-home

COMMITTEE ON MEETINGS AND CONFERENCES

Ralph Cohen (second-year Trustee)

Next Meeting: March 24, 2018 (Saturday) in Providence, RI

Current Members/Committee Charge:

www.ams.org/about-us/governance/committees/comm-all.html#MTGSCONFS

Committee Web Page: www.ams.org/about-us/governance/committees/comc-home

COMMITTEE ON THE PROFESSION

??? (first-year Trustee)

Next Meeting: September 15-16, 2018 (Saturday-Sunday) in Chicago, IL

Current Members/Committee Charge:

www.ams.org/about-us/governance/committees/comm-all.html#COPROF

Committee Web Page: www.ams.org/about-us/governance/committees/cprof-home

COMMITTEE ON PUBLICATIONS

Joseph Silverman (fourth-year Trustee)

Next Meeting: September 14-15, 2018 (Friday-Saturday) in Chicago, IL

Current Members/Committee Charge:

www.ams.org/about-us/governance/committees/comm-all.html#CPUB

Committee Web Page: www.ams.org/about-us/governance/committees/cpub-home

COMMITTEE ON SCIENCE POLICY

Robert Lazarsfeld (fifth-year Trustee)

Next Meeting: April 10-11, 2018 (Tuesday-Wednesday) in Washington, DC

Current Members/Committee Charge:

www.ams.org/about-us/governance/committees/comm-all.html#CSP

Committee Web Page: www.ams.org/about-us/governance/committees/csp-home

¹ Each Trustee serves a five-year term. During each year of the term, they serve as an ex officio member of one of the five policy committees, according to the following rotation: year 1: Profession, year 2: Meetings, year 3: Education, year 4: Publications, year 5: Science Policy.

TRUSTEE LIAISON ASSIGNMENTS TO DIVISIONS FOR 2018

Division (Director)	Board Liaisons
Executive Director (Catherine Roberts) Development	Ralph Cohen Karen Vogtmann ²
Computer Services (Tom Blythe) Information Services Information Technology	Zbigniew Nitecki Joseph Silverman
Editorial (Sergei Gelfand) Acquisitions	Robert Lazarsfeld Joseph Silverman
Finance & Administration (Emily Riley) Facilities & Purchasing Fiscal Human Resources Printing & Distribution	Zbigniew Nitecki Jane Hawkins Karen Vogtmann ²
Mathematical Reviews (Ed Dunne) Acquisitions Administration Associate Editors Cataloging Copy Editors Information Technology Reviewer Data Services Slavic Languages	Bryna Kra Zbigniew Nitecki
Meetings & Professional Services (Chris Stevens) Education & Diversity Meetings & Conferences Membership Professional Programs Public Awareness	Ralph Cohen Bryna Kra
Publishing (Robert Harington) Production Electronic Prepress Sales & Member Services Creative Services Marketing	Bryna Kra Robert Lazarsfeld
Washington Office (Karen Saxe)	Jane Hawkins Karen Vogtmann ²

² Vogtmann's term on the Board ends on 31-January-2018, so a replacement needs to be named.

Report of the American Mathematical Society (AMS) Retirement Plan Investment Committee (the Committee)

This document provides a summary report of the 2017 activities of the AMS Retirement Plan Investment Committee.

The Committee is a standing committee created by action of the Board in May 2011. The Committee consists of four members: Director of Human Resources (Chair), Chief Financial Officer, Associate Treasurer of the AMS, and a member of the Board of Trustees who, at the time of appointment, has at least two years remaining in their appointment. In November 2011 the Committee was charged with the primary responsibility for choosing and monitoring plan funding options in a prudent manner insuring that the Society fulfills its Plan Sponsor responsibilities and with making reports to the Board concerning its activities at least annually.

For the 2017 calendar year the following individuals served on the Committee: Tammy King Walsh (Chair), Emily Riley (elected Secretary), Zbigniew Nitecki and Joseph Silverman.

The Committee met on March 24, 2017 in Providence. Fiduciary Investment Advisors (FIA), Cammack Retirement Group, and Strategic Retirement Partners all gave presentations regarding their responses to the Request for Proposals from the American Mathematical Society (AMS) for an investment advisor for the AMS retirement plans. The Committee voted to select FIA as the advisor for the AMS Retirement Plan.

On September 13, 2017 the Committee met with Vincent Smith from FIA and reviewed:

1. Contract Structure
2. Investment Menu Design
3. Transition Strategy
4. Fee Analysis
5. Investment Policy Statements

The Committee voted to move forward with FIA's recommendations on 1 – 4 above and approved Investment Policy Statements both plans that comprise the AMS Retirement Plan. The Committee also voted to recommend changes to the Committee Charge to provide for consistency in membership, as well as some minor language changes to maintain consistency with other documents governing the operation of the committee. The new committee membership, if approved by consent of the BT, will consist of the Director of Human Resources, the Chief Financial Officer, a staff member with knowledge of the retirement plans, and the Associate Treasurer of the AMS.

*Tammy King Walsh, Director of Human Resources and
Chair of the AMS Retirement Plan Investment Committee
September 2017*

Retirement Plan Investment Committee

General Description

- Committee is a standing committee of the Board of Trustees.
- Number of members is four, consisting of the Director of Human Resources (Chair), Chief Financial Officer, a knowledgeable staff member, and the Associate Treasurer, ~~and a member of the Board of Trustees who, at the time of the appointment, has at least two years remaining in their term as Trustee.~~
- Terms vary

Responsibility

The Committee's primary responsibility is to choose and monitor plan funding options in a prudent manner ensuring that the Society fulfills its Plan Sponsor responsibilities. The Committee will make reports to the Board concerning its activities at least annually.

Principal Activities

The principal activities of the Committee include:

- Establishing and managing an Investment Policy Statement (IPS) approved by the Board of Trustees.
- Controlling fees and expenses.
- Designing and reviewing Plan investment menus.
- Selecting and terminating funding options.
- Monitoring and documenting Plan investment performance.
- Generating communications to participants when necessary.

Other Activities

The Committee may choose to hire an outside Independent Investment Advisor/Manager to:

- Propose investment options according to criteria established in the IPS.
- Report and review investment options' performance against established peer groups and benchmarks according to frequencies required by the IPS.
- Monitor changes at fund management firms

Miscellaneous Information

The Committee will meet at least annually, not necessarily in person, but may meet at other times as needed to carry out fiduciary responsibilities.

Staff support for the Committee is provided by the Director of Human Resources and the Chief Financial Officer.

The Society will maintain a website with information relevant to the Investment Committee.

Such

Information will include minutes, investment performance information, and other information relating to the Society's retirement plan investments.

**SECOND
AMENDMENT TO THE**

**AMERICAN MATHEMATICAL SOCIETY
RETIREMENT PLAN**

WHEREAS, American Mathematical Society (the "Institution") adopted the American Mathematical Society Retirement Plan (the "Plan") for the benefit of its employees, originally effective as of January 1, 1989; and

WHEREAS, the Plan was thereafter amended from time to time, including a complete restatement effective as of January 1, 2013; and

WHEREAS, the Institution wishes to further amend the Plan, to ratify and confirm the intent of the Institution and to document the operation of the Plan;

NOW, THEREFORE, pursuant to the power reserved to the Institution in Article Ten of the Plan, first paragraph of Section 1.6 of the Plan is hereby amended in its entirety to read as follows, effective as of January 1, 2017:

"1.6 "COMPENSATION" shall mean wages and other compensation which is reportable on Form W-2 paid to a Participant by the Employer for the Plan Year but, except as otherwise provided in the Plan, exclusive of compensation paid prior to the Participant's entry into the Plan, and exclusive of severance payments, overtime, any program of deferred compensation or additional benefits payable other than in cash. Compensation shall include up to six (6) months of payments made to the Participant under the Employer's short-term disability program or from a state short-term disability plan, but excluding any such amount in excess of the Participant's regularly scheduled wages at the time the disability commenced. Compensation shall include elective contributions that are made by the Employer on behalf of a Participant that are not includible in gross income under Code Sections 125, 132(f)(4), 402(e)(3), 402(h)(1)(B) or 403(b). The following are excluded from Compensation for purposes of contributions under the Plan: service awards, gift cards, computing benefits, bonuses and taxable tuition reimbursement.

Compensation shall also include Employee Mandatory Plan Contributions made under the American Mathematical Society Tax-Deferred Annuity Plan."

IN WITNESS WHEREOF, the Institution, by its duly authorized officer, has caused this Amendment to be executed this 9th day of January, 2016.⁷

**AMERICAN MATHEMATICAL
SOCIETY**

By: Emily D. Biley

**FIFTH
AMENDMENT TO THE**

**AMERICAN MATHEMATICAL SOCIETY
TAX-DEFERRED ANNUITY PLAN**

WHEREAS, American Mathematical Society (the "Institution") adopted the American Mathematical Society Tax-Deferred Annuity Plan (the "Plan") for the benefit of its employees, originally effective as of June 8, 1975; and

WHEREAS, the Plan was thereafter amended from time to time, including a complete restatement effective as of January 1, 2009; and

WHEREAS, the Institution wishes to further amend the Plan, to ratify and confirm the intent of the Institution and to document the operation of the Plan;

NOW, THEREFORE, pursuant to the power reserved to the Institution in Article IX of the Plan, the Plan is hereby amended as follows, effective as of January 1, 2017:

FIRST: The first paragraph of Section 1.5 of the Plan is hereby amended in its entirety to read as follows:

"1.5 **Compensation** means the amount paid by the Institution to a Participant that must be reported as wages on the Participant's Form W-2, plus compensation that is not currently includable in the Participant's gross income because of the application of Code Sections 125 or 403(b) through a salary reduction agreement. The following are excluded from Compensation for purposes of contributions under the Plan: service awards, gift cards, computing benefits, bonuses, severance pay, overtime and taxable tuition reimbursement. For purposes of Employer contributions under the Plan, Compensation shall also include Employee Mandatory Plan Contributions made under the Plan. See also the definition of Credited Compensation in Section 4.1. Such definition shall be construed in conjunction with this Section 1.5 and the rules and limitations set forth in the remaining paragraphs of this Section 1.5 are also applicable to Credited Compensation."

SECOND: The definition of Credited Compensation in Section 4.1 of the Plan is hereby amended in part by adding a new sentence at the end thereof to read as follows:

"Notwithstanding the foregoing, for both exempt and non-exempt employees, the following are excluded from Credited Compensation for purposes of contributions under the Plan: service awards, gift cards, computing benefits, severance pay bonuses and taxable tuition reimbursement. For purposes of Employer contributions under the Plan, Compensation shall also include Employee Mandatory Plan Contributions made under the Plan. See also the rules and limitations under the definition of Compensation in Section 1.5 of the Plan."

IN WITNESS WHEREOF, the Institution, by its duly authorized officer, has caused this Amendment to be executed this 9th day of January, 2016.

**AMERICAN MATHEMATICAL
SOCIETY**

By: Emily D. Biley

SIXTH AMENDMENT

TO THE AMERICAN MATHEMATICAL SOCIETY TAX-DEFERRED ANNUITY RETIREMENT PLAN

QNEC/QMAC FORFEITURE AMENDMENT

WHEREAS, American Mathematical Society (the "Employer") sponsors the American Mathematical Society Tax-Deferred Annuity Plan (the "Plan") for the benefit of certain employees; and

WHEREAS, pursuant to the terms of the Plan, the Employer wishes to amend the Plan;

NOW, THEREFORE, the Plan is hereby amended as follows, effective as the first day of the Plan Year ending on or after January 18, 2017 or, if later, the first day of the Plan Year in which this Amendment is executed.

This amendment to the Plan is adopted to amend the definitions of qualified nonelective and matching contributions as outlined in proposed amendments to Treasury Regulations Sections 1.401(k)-6 and 1.401(m)-1. This amendment is intended to be a good faith amendment in compliance with the requirements of proposed regulations and is to be construed in accordance with same. This amendment shall supersede the provisions of the Plan to the extent those provisions are inconsistent with the provisions of this amendment and the proposed regulations.

Except as otherwise provided in this Amendment, any reference to "Section" in this Amendment refers only to sections within this Amendment, and is not a reference to the Plan. The Section numbering in this Amendment is solely for purposes of this Amendment, and does not relate to any Plan article, section or other numbering designations.

1. SAFE HARBOR CONTRIBUTIONS AND OTHER QUALIFIED NONELECTIVE / MATCHING CONTRIBUTIONS

- A. Qualified Nonelective Contributions: (1) shall be allocated to the Participant's Account as of a date within that year within the meaning of Treas. Reg. Section 1.401(k)-2(a)(4)(i)(A); (2) shall be nonforfeitable when allocated to a Participant's Account unless attributable to withdrawal rights under an Eligible Automatic Contribution Arrangement or Qualified Automatic Contribution Arrangement; and (3) shall be distributed only under the rules applicable for Elective Deferrals in accordance with Treas. Reg. Section 1.401(k)-1(d) (attainment of age 59-1/2, severance from employment, death, or Disability, but not hardship).

Any Plan provision requiring that qualified nonelective contributions be nonforfeitable when made is superseded by this requirement that such contributions be nonforfeitable when allocated as qualified nonelective contributions.

- B. If the Plan provides for matching contributions, the Employer in its discretion may make matching contributions designated as qualified matching contributions for the benefit of such Participants and in such manner determined at the discretion of the Employer. The Employer may determine, in its discretion whether allocations of qualified matching contributions shall be limited to Participants who are credited with at least a certain number of Hours of Service during the Plan Year and/or who remain in the Employer's employ on the last day of the Plan Year. Such qualified matching contributions shall be nonforfeitable when allocated to a

Participant's Account unless attributable to withdrawal rights under an Eligible Automatic Contribution Arrangement or Qualified Automatic Contribution Arrangement and may only be distributed upon the Participant's: (1) attainment of age 59-1/2; or (2) severance from employment, death, or disability.

Any Plan provision requiring that qualified nonelective contributions be nonforfeitable when made is superseded by this requirement that such contributions be nonforfeitable when allocated as qualified matching contributions.

2. Disposition of Forfeitures. Amounts forfeited from a Participant's Account shall be used to restore forfeitures or reduce Employer contributions (or reallocate as Employer contributions) otherwise to be made under the terms of the Plan, or to pay eligible Plan administrative expenses, as set forth in the Plan. Any such disposition of forfeitures from a Participant's Account shall be made no later than the end of the Plan Year following the Plan Year during which the forfeiture occurred.

IN WITNESS WHEREOF, the Employer has caused this Amendment to be executed this 5th day of September, 2017.

American Mathematical Society:

Signature: Emily D. Riley

Print Name: EMILY D. RILEY

Title/Position: Chief Financial Officer

**American Mathematical Society
Committee on Education Meeting
October 26-28, 2017
Washington DC**

Summary Report

The focus of this year's Committee on Education meeting was on preparing graduate students for teaching-focused and non-academic jobs. The meeting itself consisted of presentations and discussions over a day and a half. Attendees included a number of chairs of departments of mathematics from across the country. Douglas Mupasiri, Chair of COE, introduced the speakers and facilitated the meeting.

MAA Overview: CoMInDS and PIC Math

Doug Ensley (Mathematical Association of America) introduced two MAA programs to attendees – “College Mathematics Instructor Development Source” (CoMInDS) and “Preparing Students for Industrial Careers” (PIC Math). Additionally, he spoke to the group about the “Progress through Calculus” (PTC) program.

CoMInDS provides an online resource suite of instructional materials and research products related to Teaching Assistant professional development. PIC Math prepares mathematics students for industrial careers by engaging them in research problems from business, industry and government. The PTC program is a three-part survey of department chairs at all U.S. graduate-degree granting institutions that looks at courses in mainstream pre-calculus/calculus sequence; enrollment data for courses; and departmental practices to support pre-calculus/calculus sequence.

Revitalizing Graduate STEM Education for the 21st Century

Layne Scherer (National Academies of Science, Engineering, and Medicine - NAS) is the study director for the committee on *Revitalizing Graduate STEM Education for the 21st Century*, a report by NAS that looks at: the state of graduate STEM education in the U.S.; how can we improve career outcomes for students (and employers); how does graduate education funding affect students; how can we foster strong mentoring in graduate education; how are graduate education and graduates responding to globalization; how is graduate education changing; and how can we make sure this report has national impact.

Scherer discussed input the committee has received from public comment at listening sessions and from presentations thus far. Key themes include student infrastructure and policies, graduate student data, careers and competencies, degree experience and buy-in. She referred the group to the previous publication *The Mathematical Sciences in the 2025* which emphasizes that most careers in the near future will require very strong mathematical and science backgrounds. This means that academic mathematical scientists will need to prepare students for this regardless of their degree choice.

The final open session on this report will be held on November 7, 2017. The report will then be developed and is expected to be released in 2018.

A Report from the AMS Education and Diversity Department

Helen Grundman (American Mathematical Society) began her presentation on the new AMS Education and Diversity Department by talking about AMS strategic planning and how it contributed to the creation of this new department. The department seeks to promote diversity and inclusion at all stages of the mathematics 'pipeline.' Its initial focus is on graduate education in the mathematical sciences including the preparation of students entering graduate school, the mentoring of students for success and the promotion of diversity and inclusiveness at the graduate level.

Grundman reported on department activities and initial goals, visibility and participation with other groups, as well as ongoing AMS inclusion initiatives and external funding opportunities.

Teaching the Future Professoriate: Clarkson University's Summer Institute for Teaching Assistants

Catherine Snyder and Peter Turner (Clarkson University) spoke to the group about Clarkson University's Summer Institute for Graduate Teaching Assistants. They talked about the development of the program, including the rationale behind it and its pilot program and timeline. The pilot program for this intensive "boot camp" started in 2016

The program is designed specifically to address the needs of teaching assistants. It is a four week curriculum that focuses on 1) STEM literacy including fundamentals of planning, assessment, methods, and student interaction; 2) STEM teaching methods including strategies for helping students deconstruct text, identifying literacy needs and common misconceptions, scaffolding of instruction and differentiation; 3) STEM teaching lab which allows them to practice teaching with peer and instructor feedback; and 4) professional communications including career planning, professional dispositions and communication skills.

The pilot program for this intensive "boot camp" launched in 2016 and is mandatory for all TAs in the School of Arts and Sciences at Clarkson. However, in summer of 2018 the program will open up to students from other colleges and universities, and will include early career faculty (especially in engineering) as well.

NSF-EHR Opportunities for Graduate Training in Mathematics

Tara Smith (NSF-EHR/DGE) and Ron Buckmire (NSF-EHR/DUE) began their presentation by giving a brief overview of the National Science Foundation (NSF) and the Directorate for Education and Human Resources (EHR) in particular. They outlined a number of programs in the EHR Division of Undergraduate Education (EHR-DUE) and the EHR Division of Graduate Education (EHR-DGE).

Buckmire presented to the group some opportunities that impact graduate students in the Division of Undergraduate Education including STEM education programs like S-STEM (Scholarships in STEM) and IUSE: EHR (Improving Undergraduate STEM Education), cross directorate STEM education programs like IUSE: HIS (Improving Undergraduate STEM Education in Hispanic-Serving Institutions) and other programs like LSAMP: BD (LSAMP Bridge to the Doctorate) and AGEP (Alliance for Graduate Education and the Professoriate).

Tara Smith talked about trends in U.S. graduate education and discussed NSF goals related to STEM workforce development, including investments in graduate education. The Division of Graduate Education has a number of programs to prepare students in STEM fields including NRT (NSF Research Traineeship Program), IGE (Innovations in Graduate Education), GRFP (Graduate Research Fellowship Program), SFS (CyberCorps Scholarships for Service), and ECR (ECR-Workforce Development).

NSF priorities for training graduate students and associated DMS funding opportunities

Nandini Kannan and Matt Douglass (NSF-MPS/DMS) presented information on the programs in the Division of Mathematical Sciences at NSF-MPS. Douglass talked about the INCLUDES program (Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science).

NSF INCLUDES is a national initiative that seeks to enhance U.S. leadership in science and engineering discovery and innovation by developing STEM talent from all sectors and groups in society. The objective of this program is to develop and bring together representative organizations and consortia from different sectors that will position inclusion and equity as core values for excellence in STEM and make the science and engineering workforce better reflect the diversity of U.S. society.

Kannan presented information on the NSF's ten Big Ideas of which the INCLUDES program is one. Other research ideas in which mathematics can play a key role are Harnessing the Data Revolution, Understanding the Rules of Life and the Quantum Leap. Kannan also discussed TRIPODS (Transdisciplinary Research and Principles of Data Science) and that program's desire to get more proposals from the mathematics community.

Introduced in 2016, Big Ideas identifies areas of national importance for future investment at the frontiers of science and engineering. See <https://www.nsf.gov/about/congress/115/10bigideas.jsp> for more on The Big Ideas.

EDT: Math to Industry Boot Camp

Dan Spirn (Institute of Mathematics and its Applications/University of Minnesota) began by presenting information on the tightening job market for math PhDs in academia. He talked about past programs at the Institute of Mathematics and its Applications (IMA) and how the Math-to-Industry Boot Camp is different from other Enhanced Doctoral Training programs.

The Math-to-Industry Boot Camp is an intense six-week summer session designed to provide graduate students with training and experience intended to help them gain employment outside of academia. The program is targeted at PhD students in pure and applied mathematics. The boot camp consists of technical and soft skills training, as well as team projects including those sponsored by industry participants.

Being a professor at a teaching-oriented college or university: What every graduate advisor/director needs to know

Suzanne Dorée (Augsburg College), Katherine Stevenson (California State University), Robert Mignone (College of Charleston) and Karen Saxe (AMS Washington Office Director, Macalester College) participated in this panel discussion on excellence in teaching.

Dorée introduced the panel members who each then described their institutions, departments, programs, students and faculty. Panelists represented a diverse mix of institutions and described how their departments deal with issues surrounding teaching, including providing aspects of excellent teaching, examples of pedagogies and how teaching is evaluated for tenure promotion. The panel looked at different ways to assess excellence in teaching, including teacher evaluations, classroom visitation and student outcomes.

Issues Resulting from Reliance on Non-Tenure Track Faculty at GVSU

Karen Novotny (Grand Valley State University) began her presentation by describing Grand Valley State University, its students and faculty. She discussed the categories of faculty (tenured/tenure track, affiliates, visitors and part-time adjuncts) in the mathematics department and their workloads, as well as the majors and courses.

Novotny discussed the challenges of managing workloads with an inadequate number of tenured/TT faculty who must teach most of their calculus classes, in addition to the upper level mathematics courses, because other faculty are not qualified to do it.

She explained that due to the makeup of their teaching staff, the university has three main issues: 1) without more tenured/TT faculty, foundation and calculus courses must be taught primarily by contract faculty who aren't trained in advising, have no long term commitment to the institution and are unlikely to establish important student-faculty relationships; 2) all mentor and support new TT faculty and share the service load, but there is too much work and not enough workers; 3) it is hard to find qualified part-time adjuncts due to low pay and ACA restriction on the number of credit hours they can teach.

This kind of faculty pressure and resulting service overload is a very big problem that is causing the department to miss opportunities for recruiting students into math majors.

Educational Activities at the NASEM Board on the Mathematical Science and Analytics

Ben Wender (Board on Mathematical Sciences and Analytics) began his talk by giving a brief history of the National Academies of Sciences, Engineering and Medicine (NASEM). He explained that NASEM provides advice to the federal government to inform sound policy making and is organized by divisions focused on broad topic areas. It acts as an interface between researchers and the broader policy making community and is not part of the federal government but rather a private, non-profit organization.

NASEM is loosely organized into 8 divisions, only one of which is focused on mathematics. The Board of Mathematical Sciences and Analytics (BMSA) is one of many boards in this division. BMSA and CATS (Committee on Applied and Theoretical Statistics) are the two boards representing the mathematical sciences and are tasked with promoting and advancing their fields. They have published a number of reports.

Wender spoke about two ongoing education-focused activities at BMSA and CATS. One is "Envisioning the Data Science Discipline: The Undergraduate Perspective," funded through NSF and which seeks to describe what data science education should look like in 20 years if there were no constraints. Its final report is due out in early 2018. The other project is "The Data Science Education Roundtable," funded predominantly by the Moore Foundation and which seeks to strengthen ties between industry and academia (the American Statistical Association is a sponsor). There was some discussion on whether the AMS should consider being a sponsor of this project. The committee also discussed more participation by AMS in NASEM activities and potential sponsorship of future projects.

*Submitted by Anita Benjamin
Assistant Director, AMS Washington Office
November 13, 2017*