AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
NOVEMBER 20-21, 2015

MINUTES

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AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
NOVEMBER 20-21, 2015

MINUTES

A joint meeting of the Executive Committee of the Council (EC) and the Board of Trustees (BT) was held Friday and Saturday, November 20-21, 2015, at the AMS Headquarters in Providence, Rhode Island.

The following members of the EC were present: Robert L. Bryant, Jesús A. De Loera, Tara S. Holm, Kenneth A. Ribet, Carla D. Savage, and David A. Vogan, Jr. Hélène Barcelo was unable to attend. It is noted for the record that a quorum (four members) was present.

All members of the BT were present: Robert L. Bryant, Ruth M. Charney, Jane M. Hawkins, William H. Jaco, Robert K. Lazarsfeld, Zbigniew H. Nitecki, Joseph H. Silverman, and Karen Vogtmann. It is noted for the record that a quorum (six members) was present.

Also present were the following AMS staff members: Thomas H. Barr (Special Projects Officer, Meetings and Professional Services),Thomas J. Blythe (Chief Information Officer), Edward G. Dunne (Executive Editor, Mathematical Reviews), Sergei Gelfand (Publisher), Robert M. Harington (Associate Executive Director, Publishing), Ellen H. Heiser (Assistant to the Executive Director [and recording secretary for this meeting]), Robin Marek (Director of Development), Donald E. McClure (Executive Director), Emily D. Riley (Chief Financial Officer), Samuel M. Rankin (Associate Executive Director, Washington Office), and T. Christine Stevens (Associate Executive Director, Meetings and Professional Services). Karen I. Mollohan (Special Projects Manager, Finance Department) was present from 4:30 PM - 6:00 PM on November 20.

President Robert Bryant presided over the EC and ECBT portions of the meeting (items beginning with 0, 1, or 2). Board Chair Ruth Charney 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

0.1 Opening of the Meeting and Introductions.

President Bryant called the meeting to order and asked those present to introduce themselves.

0.2 2015 AMS Election Results.

Secretary Savage announced the following election results:

President
Kenneth Ribet, University of California, Berkeley
Term is one year as President Elect (1 February 2016 - 31 January 2017), two years as President (1 February 2017 - 31 January 2019), and one year as Immediate Past President (1 February 2019 - 31 January 2020).

Vice President
Richard Schoen, University of California, Irvine and Stanford University
Term is three years (1 February 2016 - 31 January 2019)

Trustee
Bryna Kra, Northwestern University
Term is five years (1 February 2016 - 31 January 2021).

Members at Large of the Council
Henry Cohn, Microsoft Research and Massachusetts Institute of Technology
Alicia Dickenstein, University of Buenos Aires
Erica Flapan, Pomona College
Anna Mazzucato, Pennsylvania State University
Alan William Reid, University of Texas at Austin
Terms are three years (1 February 2016 - 31 January 2019).

Nominating Committee
Carolyn Gordon, Dartmouth College
David R. Morrison, University of California, Santa Barbara
Karen Hunger Parshall, University of Virginia
Terms are three years (1 January 2016 - 31 December 2018).

Editorial Boards Committee
Laura DeMarco, Northwestern University
Tatiana Toro, University of Washington
Terms are three years (1 February 2016 - 31 January 2019).

0.3 Housekeeping Matters.

Executive Director McClure mentioned some details about the schedule and arrangements for the events that took place during the current meeting.

1 EXECUTIVE COMMITTEE ACTION/DISCUSSION ITEMS

1.1 Draft Agenda for the January 2016 Council Meeting.

The EC reviewed the draft agenda for the January 2016 Council meeting. It was decided that the discussion topic for the April 2016 Council Meeting would be finalized by email. [It is noted for the record that the discussion topic for the April 2016 Council meeting will be: *One of the initiatives in the AMS Strategic Plan is to publish more mathematics content. What form might this take and how might it be implemented?*].

1I EXECUTIVE COMMITTEE INFORMATION ITEMS

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

Minutes of Secretariat business by mail during the months June 2015 – November 2015 are attached (#5).

2 EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES ACTION/DISCUSSION ITEMS

2.1 Report on Committee on Publications (CPub). Att. #6.

The ECBT received the attached report (#6) on the September 18-19, 2015 CPub meeting.

2.2 Report on Committee on the Profession (CoProf). Att. #7.

The ECBT received the attached report (#7) on the September 19-20, 2015 CoProf meeting.

2.3 Report on Committee on Education (COE). Att. #34.

The ECBT received the attached report (#34) on the 29-31, 2015 COE meeting.

2.4 Report on Mathematical Reviews Editorial Committee (MREC). Att. #8.

The ECBT received the attached report (#8) on the October 12, 2015 MREC meeting.

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

The ECBT was informed that the last COMC meeting was held on March 21, 2015 at the AMS headquarters in Providence. A report on that meeting was given at the May 2015 ECBT meeting. The next COMC meeting will be held on March 12, 2016 at the Hilton Chicago O'Hare Airport Hotel. The Chair of COMC for February 1, 2015 – January 31, 2016 is Graham Leuschke of Syracuse University.

2.6 Report on Committee on Science Policy (CSP).

The ECBT was informed that the next CSP meeting will be held April 12-13, 2016 in Washington, DC. The summary report of the 2015 CSP meeting was previously provided to the ECBT. CSP will host a panel discussion at the Joint Mathematics Meetings in Seattle on January 8, 2016. Panelists are currently being invited to participate in this panel entitled "Mathematical Careers Beyond Academia."

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 Long Range Planning Committee (LRPC).

It was reported that the LPRC met on November 20, 2015 and discussed the activities of the Washington Office. The LRPC was informed that the current Director of the Washington Office, Samuel Rankin, plans to retire at the end of 2016, and a search for his successor will be launched at the beginning of 2016. The LRPC reviewed and commented on a draft of the job posting that will appear in the January 2016 *Notices of the AMS* (and elsewhere).

[It is noted for the record that final version of the job posting has now been published in the January 2016 *Notices*: www.ams.org/journals/notices/201601/rnoti-p47.pdf.]

2.9 2017 Individual Member Dues. Att. #10.

The ECBT reviewed Att. #10, which presents the principles and procedures for setting individual member dues and information used by staff in formulating the recommendation that the 2017 dues rate for individual members be increased $4 above the 2016 level.

The ECBT concurred with the staff and voted to recommend to the January 2016 Council that 2017 "regular high" dues be increased by $4 (from $188 to $192), with the salary cutoff for high/low rates remaining at $85,000.

2.10 Registration Fees for Sectional Meetings.

Registration fees for sectional meetings are routinely reviewed by the ECBT every three years.

The ECBT reviewed the history of sectional meetings since 2000, which included information on attendance, registration fees, revenues, expenses, the loss per meeting, and the loss per registrant.

The following registration fees were approved. These represent an increase over the 2015-2016 fees of $2 per year for members and $5 per year for non-members. For students, there is a one-time increase from $5 to $10.

Academic Year	Member	Non-member	Student/Unemployed/Emeritus
2016-2017	$59	$85	$10
2017-2018	$61	$90	$10
2018-2019	$63	$95	$10

2.11 Approval of Proposals Submitted to Funding Agencies and Foundations. Att. #12. *McCLURE*.

The ECBT received the attached report (#12) on the current status of proposals and approved the planning, preparation, and submission of the following three proposals:

- Support for travel grants of U.S. mathematical scientists to participate in MCA2017 (request in range of $100,000 - $120,000)
- Support for AMS-Simons travel grants in 2017, 2018, and 2019 (request in range of $1,000,000 - $1,500,000)
- Support for the Math in Moscow program (request of about $320,000)

2.12 2016 Operating Plan.

The ECBT was informed that the 2016 Operating Plan had been posted for their perusal. Questions and comments were invited, but none arose.

[It is noted for the record that after the final Section of the 2016 Operating Plan (Section VI - Report on Projects and Activities) is completed in spring 2017, a complete, official copy of the 2016 Operating Plan will be attached to record copies of the May 2017 ECBT minutes.]

2.13 Motions of the Secretary.

The following motions were approved by acclamation:

*The Executive Committee and Board of Trustees of the American Mathematical Society record their thanks to **Hélène Barcelo** for her service to the Society as a member of the Executive Committee during the past four years. The ECBT expresses its gratitude to Professor Barcelo 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 ***William H. Jaco*** *for his service to the Society as a member of the Board of Trustees during the past five years. The ECBT expresses its gratitude to Professor Jaco for his wisdom in contributing to the management of the Society and hopes to be able to draw upon his talents again.*

2C EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES CONSENT ITEMS

2C.1 Approval of Minutes of May 2015 ECBT Meeting.

The ECBT approved the minutes of the meeting of the Executive Committee and Board of Trustees held May 15-16, 2015, in Ann Arbor, Michigan, which had been distributed separately. These minutes include:

- ECBT open minutes prepared by the Secretary of the Society www.ams.org/secretary/ecbt-minutes/ecbt-minutes-0515.pdf
- ECBT executive session minutes prepared by the Secretary of the Society

See also item 3E.8 (approval of the May 2015 BT executive session minutes).

2C.2 Funding Project NExT Fellows for 2017.

Project NExT (New Experiences in Teaching) is a program of the Mathematical Association of America that provides training for young mathematicians beginning their careers. The AMS first provided funding for six fellows at $2,500 each in 2002.

AMS's participation in this program is reviewed every two years; it was last reviewed by the November 2014 ECBT and it was agreed to continue (with annual approvals on the ECBT consent agenda) until the next review in November 2016. Approval for the program in year x is usually given in November of year x-2.

The ECBT consented to a commitment of $15,000 for Project NExT in 2017.

2I EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES INFORMATION ITEMS

2I.1 State of the AMS. Att. #17.

The Executive Director's annual report to the spring Council is attached (#17). It was noted that the report was published in the December 2015 issue of the *Notices of the AMS*.

2I.2 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 2015 ECBT meeting.

2I.3 AMS Congressional Fellowship.

AMS is sponsoring Anthony Macula (formerly with the State University of New York, College at Geneseo) as the AMS Congressional Fellow for 2015-16. Tony started work at the Tom Lantos Human Rights Commission of the House Committee on Foreign Affairs. The mission of the Commission is to promote, defend and advocate internationally recognized human rights norms in a nonpartisan manner, both within and outside of Congress.

The AMS plans to sponsor a Congressional Fellow again in 2016-17. The deadline for receipt of applications for that fellowship is February 15, 2016. An announcement and information on the application process has been 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.4 AAAS-AMS Mass Media Fellowship.

The AMS sponsored Rachel Crowell, a graduate of the University of Missouri, Kansas City. She spent ten weeks this past summer at *The Oregonian*. Her work there included writing on subjects as diverse as increasing safe habitats for monarch butterflies, service dogs and disability, and dinosaurs.

The AMS plans to sponsor a Mass Media Fellow again in 2016. The deadline for receipt of applications is January 15, 2016. 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.5 Termination of Blumenthal Award. Att. #18.

In September 2015, Executive Director McClure was informed by Central Trust Company in Columbia, Missouri that the Leonard M. and Eleanor B. Blumenthal Trust for the Advancement of Mathematics had been terminated and the funds distributed to the designated beneficiary. As a result, the Blumenthal Award has been terminated. Information about this award, including a link to past winners, is posted here: www.ams.org/blumenthal-award. Att. #18 outlines the conditions of the trust.

2I.6 Report on Petitions for AMS Student Chapters. Att. #19.

The AMS Graduate Student Chapters were launched in 2012-2013. There are now 37 chapters, reflecting the addition of five new chapters since the report to the May 2015 ECBT. Three petitions are pending. Typical chapter activities include colloquia, conferences, professional development seminars for graduate students, and outreach activities. Att. #19 indicates the new chapters approved since the last ECBT meeting and provides a snapshot of the recent activities of three chapters.

3 BOARD OF TRUSTEES ACTION/DISCUSSION ITEMS

3.1 Budget Review.

The BT discussed items 3.1.1 through 3.2.5 and then voted to approve the 2016 budget as presented, subject to the discussion of item 3E.5 (Salary Increments for 2016) in closed executive session.

3.1.1 Discussion of Fiscal Reports.

The BT received and discussed various fiscal reports, including the following:

- 2014 actuals; 2015 year-to-date actuals, projections, and budget; and 2016 budget, along with explanations of variances
- information about spendable income, long-term investments and endowment funds
- the 2016 Capital Plan and past actuals
- the Financial Review Memo, including analysis of 2015 actual and 2016 budget information

3.1.2 Capital Expenditures – 2015 and 2016 Capital Purchase Plans.

The BT reviewed the 2015 and 2016 capital purchase plans and approved the 2016 plan as part of the 2016 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. The BT considered three such requests in executive session.

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. Att. #21.

The amount due operations from the long-term investment portfolio at the end of 2015 is estimated to be approximately $2,500,000. 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. Att. #21 explains why the amount of undesignated, unrestricted net assets has dwindled since 2008.

The BT approved the Chief Financial Officer's recommendation that the amount due operations from the long-term investment portfolio at 12/31/15 (estimated to be approximately $2,500,000) be used to fulfill any obligation to maintain the value of true endowment funds at their original gift amount, if possible. Further, 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. If this is not possible, part of the OSF will be used to fulfill any obligation to maintain the value of true endowment funds. Any amounts due operations that are greater than the balance of the undesignated, unrestricted net assets at year-end will be transferred from the long-term portfolio to operations.

3.2.2 Rebalancing of Economic Stabilization and Operational Support Funds.

Under the policy adopted by the May 2006 Board of Trustees, 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 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 OSF to ESF in 2015.

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

The BT was reminded that 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 May ECBT, when revenue projections for the following year are made.

The income from the OSF is determined according to guidelines established by the BT in May 2001. For 2015 the income is $2,048,000. For 2016 the income is $2,500,000. Both of these amounts have already been approved by the BT.

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

Each year the budgeting process includes recommendations from the Executive Director and Chief Financial Officer for allocating spendable income from the Unrestricted Endowment for specific projects. The allocated income is treated as revenue for operations, offsetting (part of) the expenses. These recommendations are brought to the Board for approval every November as part of the normal budgeting process. The goal is not 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 is a regular part of AMS operations, not an exceptional situation.

The 2016 revenue budget currently includes $262,560 of spendable income from true endowment funds whose use of income is unrestricted. The BT approved the appropriations as presented in Att. #22.

The BT asked that the procedure for appropriating spendable income be revisited at the May 2016 BT meeting and that appropriations for 2017 also be discussed at that time.

3.2.5 Report on Changes in Appropriated Spendable Income and Use of EISF 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. This year, leftover funds that were allocated to the Young Scholars Math Camp Conference were allocated once again to the Young Scholars Program in the amount of $25,000. The same amount was allocated in 2014 to the Young Scholars Program.

In 2012, the BT approved the creation of the Endowment Income Stabilization Fund (EISF) to be used to supplement the spendable income from endowment funds when the spendable income is not enough to support a prize or award. In 2015, $1,961 has been allocated from the EISF for the Cole Prize in Algebra, and $1,390 for the Satter Prize.

3.3 Investment Committee Report.

Investment Committee Chair Jane Hawkins reported that the Committee met on October 7, 2015 and discussed the following:

- Performance review
- Spending rate and spendable income
- Asset allocation
- Real Estate Investment Trusts (REITs)
- Cash equivalents
- Agenda for the April 2016 meeting

There was nothing of note to report to the BT, nor any recommendations requiring BT action.

3.4 Audit Committee.

Audit Committee Chair Jane Hawkins reported that the Committee met on November 20, 2015. The primary purpose of the meeting was to meet with representatives from the auditing firm of CBIZ Tofias & Mayer Hoffman McCann P.C. to discuss audit planning and any changes in accounting pronouncements affecting the AMS.

There was nothing of note to report to the BT, nor any recommendations requiring BT action.

3.5 Board-designated Fund for Strategic Plan Implementation.

The BT was informed that the AMS is in the final stages of strategic planning, and implementation will begin in 2016. The Executive Director and the Chief Financial Officer proposed that $250,000 be taken from the Operations Support Fund and designated by the BT as a fund set aside to be used for strategic planning initiatives. These expenses have not yet been delineated, but are estimated to be $250,000 and would include such things as surveys, new positions, and contracted services. A Board-designated strategic planning fund of $250,000 would provide the revenue to offset these expenses.

The BT directed that $250,000 be taken from the Operations Support Fund and designated as the Strategic Planning Fund, to be used for implementation of strategic plan initiatives.

3.6 Capitalization Threshold for Capital Assets.

The BT was informed that, currently, the capitalization threshold for fixed assets is $3,000. The Chief Financial Officer recommended that this threshold be increased to $5,000. This would mean that equipment or building improvements costing less than $5,000 would be expensed in the year they are bought rather than depreciated over a number of years. The AMS's auditors (Mayer, Hoffman, McCann, P.C.) support such a change as it is consistent with the practice of organizations similar to the AMS, and $5,000 is specified as a default capitalization level (unless an organization has a different policy) under the new Uniform Grant Guidance for federal grants. The auditors also suggested that the AMS policy include a "bulk item" exception (e.g., if furniture is purchased in bulk, and each item is less than $5,000, but the total cost is $25,000, this bulk furniture purchase would be capitalized). The Chief Financial Officer recommended a $10,000 bulk purchase threshold.

The BT voted to raise the threshold for capitalization of long-lived assets to $5,000, with an exception of $10,000 for bulk asset purchases, and with an effective date of January 1, 2016.

3.7 Trustees' Officers.

It is noted for the record that Karen Vogtmann and Zbigniew Nitecki excused themselves from the meeting while this matter was being discussed and voted on.

The Board elected Karen Vogtmann Chair of the Board for the term February 1, 2016 – January 31, 2017.

The Board re-elected Zbigniew Nitecki Secretary of the Board for the term February 1, 2016 – January 31, 2017.

3.8 Trustees' Committees, etc. Att. #23.

Board Chair Charney made the appointments/assignments as shown on the attached list (#23).

3.9 Minutes of Closed BT Meetings. Att. #24.

The protocol followed by the Secretary of the Board when preparing and disseminating minutes of closed Board of Trustees meetings was revised to make current practice more explicit. The BT approved the revised version in Att. #24.

3C BOARD OF TRUSTEES
CONSENT ITEMS

3C.1 Request for Support of Speakers at 2017 AAAS Annual Meeting.

The BT authorized $12,000 to support mathematics speakers at the 2017 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.2 Recognition for Length of Service.

The BT approved the following proclamations for the employees noted:

20 years of service:

Annette W. Emerson
Susan M. McKenney
Tammy King Walsh

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:

Tracy G. Bennett
Diane M. Boumenot
Assen L. Dontchev
Sergei Gelfand
Andrew S. Hafner
Anne E. Newcomb
Sheila J. Rowland
Christine M. Thivierge

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:

Deborah L. Bolton
Cheryl S. Dwyer
Colleen A. Rose
William E. TePaske-King

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:

Thomas J. Blythe
Donald A. Proulx

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:

Arlene O'Sean

The Board of Trustees takes great pride in recognizing Arlene O'Sean 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 Arlene for being such a loyal employee and wish her well in the future.

3C.3 Resolutions for Retirees.

The BT approved the following resolution for each of the employees listed below who have recently retired:

Linda R. Christoff	**47 Years**
Karen A. McConaghy	**28 Years**
Mary-Eileen Olson	**40 Years**

Be it resolved that the Trustees accept the retirement of <full name> with deep appreciation for her faithful service over a period of <x> 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 <first name> 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. No changes have been made since the last ECBT meeting.

3I.2 Status of AMS Self-insurance for Health Plan. Att. #27.

In November 2014 the BT reviewed a proposal for self-insuring health insurance and gave approval to move forward with a renewal for March 1, 2015 that would be in the best financial interest of the Society and also maintain a quality benefit plan for plan participants. After reviewing year-end claims data from Blue Cross Blue Shield it was determined to be prudent to continue with the fully-insured, high-deductible plan combined with the Section 105 Reimbursement Arrangement that has been in place since March 2008. The Society's insurance broker/consultant and the Human Resources staff have continued to closely monitor claims data throughout 2015. If claims do not increase significantly in the last quarter of 2015, a move to self-insurance may be appropriate and feasible for March 1, 2016.

Page 1 of Att. #27 provide a Retrospective Analysis comparing costs for fully-insured vs. self-insured plans for the period 9/1/2013-8/31/2014. Page 2 of Att. #27 compare the same costs for the period 9/1/2014-8/31/2015. For the 2013-2014 period the Society would have saved 5.7% if the benefit had been self-insured; however, for the 2014-2015 period, the cost to provide the benefit would have exceeded fully-insured costs by 6.8%. This reflects the risk and volatility that is inherent when self-insuring a plan – some years the plan will incur higher than anticipated claims and other years claims will be lower than anticipated. However, over the longer-term, self-insurance provides an opportunity for the Society to benefit in years when claims are lower, have more control over plan design and benefits, while reducing costs for fees and taxes. Page 3 of Att. #27 reflect expected costs for fees and taxes over a five-year period for fully-insured and self-insured plans. Conservatively, it is expected that over the five-year period, 2016-2020, the Society would save in excess of $500,000 in fees and taxes.

3I.3 Retirement Plan Investment Committee Report. Att. #28.

The Retirement Plan Investment Committee, a standing committee of the Board of Trustees, consists of four members: Director of Human Resources (Chair), Chief Financial Officer, Associate Treasurer, and fifth year elected member of the Board of Trustees. The Committee is responsible for insuring that the Society fulfills its Plan Sponsor responsibilities. The charge to the Committee and the 2015 Committee Report are attached (#28).

Respectfully submitted,

Carla D. Savage

Carla D. Savage, Secretary
Raleigh, North Carolina
December 21, 2015

AMERICAN MATHEMATICAL SOCIETY

Department of Computer Science, 3320 Engineering Building II
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Phone: 919-515-7863 Fax: 919-515-7896
www.ams.org

Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
June 1, 2015

MINUTES
from the Ballot dated May 01, 2015

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub.

1. Approved electing to membership the individuals named on the attached list dated 20 April 2015**.**

2. Approved the Indian Institute of Technology, Bhubaneswar, in Bhubaneswar, India as a new Institutional Member.

3. Approved the Student Chapter Petition from the University of Calgary, Calgary, AB, Canada.

4. Approved the Minutes of the Secretariat Business by Mail from the ballot dated April 01, 2015.

Carla D. Savage

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Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
July 1, 2015

MINUTES
from the Ballot dated June 1, 2015

Votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub.

1. Approved electing to membership the individuals named on the list dated 20 May 2015.
2. Approved the Univ. Paul Sabatier, Biblio de Mathematiques, Toulouse, France as a new Institutional Member.
3. Approved the Student Chapter Petition from Arizona State University, Tempe, AZ.
4. Approved the proposal to host the Fall 2017 Western Sectional Meeting November 4--5, 2017 at UC-Riverside.
5. Approved the Minutes of the Secretariat Business by Mail from the ballot dated May 01, 2015.

Carla D. Savage

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Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
August 1, 2015

MINUTES
from the Ballot dated July 1, 2015

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 20 June 2015**.**
2. Approved holding a Meeting in Cooperation with the Indian Mathematics Consortium Dec 14-17, 2016 at Banaras Hindu University in Varanasi, India.
3. Approved the Student Chapter Petition from the University of Missouri, Columbia, MO.
4. Approved the Student Chapter Petition from Baylor University, Waco, TX.
5. Approved the Minutes of the Secretariat Business by Mail from the ballot dated June 01, 2015.

For the supplementary Ballot dated July 27, 2015, votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

6. Approved the Colorado Convention Center in Denver as the site of the 2020 Joint Mathematics Meetings.

Carla D. Savage

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Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
September 1, 2015

MINUTES
from the Ballot dated August 1, 2015

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 20 July 2015.
2. Approved the proposal to hold the Fall 2017 Southeastern Sectional Meeting at the University of Central Florida in Orlando the weekend of September 23--24, 2017.
3. Approved the Minutes of the Secretariat Business by Mail from the ballot dated July 01, 2015.
4. Approved the Minutes of the Secretariat Business by Mail from the ballot dated July 27, 2015.

Carla D. Savage

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Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
October 1, 2015

MINUTES
from the Ballot dated September 1, 2015

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 20 August 2015.
2. Approved the Student Chapter petition for the University of Maryland, College Park.
3. Approved the Minutes of the Secretariat Business by Mail from the ballot dated August 01, 2015.

Carla D. Savage

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Carla D. Savage, Secretary

SECRETARIAT
Business by Mail
November 1, 2015

MINUTES
from the Ballot dated October 1, 2015

For the Ballot dated October 6, 2015 votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approve electing to membership the individuals named on the list dated 20 September 2015
2. Approve the Student Chapter petition for Williams College, Williams, MA.
3. Approve the Student Chapter petition for Kansas State University, Manhattan, KS.
4. Georgia Benkart proposed an amendment to item #4 of the October 6,2015 Business By Mail, the Central Sectional Meeting Proposal at the University of North Texas, in order to avoid a conflict with the 2017 Eastern Fall Sectional Meeting. The proposed dates for the University of North Texas meeting changed from September 16-17, 2017 to September 9-10, 2017. The amended proposal was approved.
5. Approve the Minutes of the Secretariat Business by Mail from the ballot dated September 1, 2015.

Carla D. Savage

American Mathematical Society

Committee on Publications
2015 Annual Meeting
SUMMARY REPORT

The annual meeting of the AMS Committee on Publications (CPub) was held on Friday and Saturday, September 18-19, 2015, at the Hilton O'Hare Airport, Chicago, IL. CPub chair Charles A. Weibel presided over the meeting.

Old Business - Updates on 2014 Actions

- ***Approval of 2014 minutes:*** The minutes of the 2014 CPub meeting were approved as drafted.

- ***Annual Report*:** CPub's 2014 Annual Report was filed in the AMS Committee Report Book as Committee Report Number 141022-021 and posted on the Committee's homepage at http://www.ams.org/ams/cpub-home.html.

- ***Council Actions*:** The January 2015 Council approved the following CPub-recommended actions:
  - Updates to the charges of the History of Mathematics Editorial Committee and the Mathematical Surveys and Monographs Editorial Committee, and
  - Consolidation of the three translation editorial committees into a new committee, the Translations of Mathematical Monographs Editorial Committee, which will become active in February 2016.

- ***Mathematics of Computation (MCOM) Editorial Committee charge*:** Changes initially approved by CPub in 2014 to the MCOM Committee charge were revised at the 2015 meeting and recommended to Council for approval. The changes include the following three revisions to update wording in the "Principle Activities" section of the MCOM charge:
  - In number 1, remove the words "the quarterly journal";
  - In number 2, replace the word "decisions" with "recommendations" and capitalize the first letter in the words "associate" and "editors"; and
  - Following the word "journal" in the last sentence of number 4, change the comma to a period and strike the words "and to maintain a repository of unpublished mathematical tables".

- ***Guidelines for New Topical Journal Proposals*:** CPub was asked by Council in early 2014 to establish a process for evaluating proposals to launch new AMS journals. Through prior work conducted by subcommittee and input from the full committee at its 2014 meeting, CPub finalized and approved the *Guidelines for Reviewing Proposals to Launch a New Topical Journal*. These Guidelines were subsequently used by the 2015 CPub subcommittee reviewing the proposal to take over publication of the *Online Journal of Analytic Combinatorics*. (Information regarding this proposal is found later in this report).

Reports

- ***Report on Journal Backlogs***
  The Committee received the following reports by attachment: "Internal Primary Journal Backlog Report," "Backlog of Mathematics Research Journals," and "Report on Steps Being Taken to Alleviate Journal Backlogs," which were presented by Associate Executive Director, Publishing, Robert Harington. The current backlog statuses for *Transactions* and *Proceedings of the AMS* were discussed as well as plans to establish and maintain healthy backlogs for AMS journals through a three-pronged approach: by systematically increasing annual page budgets, refining editorial board structures, and expanding AMS' overall capacity to publish additional content.

- ***Update on Publishing Strategy Development***
  The Committee received the report "Publishing Strategy Group: Scenario Analysis - Strategy Development" by attachment, and Associate Executive Director, Publishing, Robert Harington provided a summary of the work currently underway by the AMS Publishing Strategy Group (PSG) for all AMS publishing activities including books, eBooks, journals, electronic products and Math Reviews/MathSciNet,

- ***Report on AMS Open Access Journals***
  The Committee received the "Report on Open-Access Journals" (an updated version of Att. #7, May 2015 ECBT item 2E.6) by attachment, containing information about the current status of *Proceedings of the AMS, Series B* and *Transactions of the AMS, Series B*. A brief summary of the report was presented by Associate Executive Director Harington.

- ***Report on Mathematical Reviews***
  The Committee received the "Report on *Mathematical Reviews* to CPub" by attachment, which was presented by Mathematical Reviews (MR) Executive Editor Ed Dunne. Executive Editor Dunne also demoed some new and upcoming features of MathSciNet.

- ***Review of AMS "Other" Journals***
  Charles Weibel, chair of the subcommittee that conducted the 2015 review of the AMS "other" journals (electronic-only, translation, and distributed journals), presented the subcommittee's evaluation report. Other subcommittee members included: Walter Craig, Anatoly Libgober, and Ben Webster.

  The subcommittee's findings and recommendations are summarized below:
  - Electronic-Only Journals:
    - *Proceedings, Series B* and *Transactions, Series B* were deemed too new to evaluate, having published only 13 and 3 papers at the time of the review.
    - *Conformal Geometry and Dynamics* and *Representation Theory* are both in reasonably good shape, but AMS should increase their visibility in order to increase the number of submissions to these journals.
  - Distributed Journals:
    - The value of these journals seems non-controversial, and their quality is sufficiently respectable to endorse continuation of their distribution by the AMS.

- Translated Journals:
  - *Transactions of the Moscow Mathematical Society* provides a valuable service to the community, but AMS should monitor the percentage of articles being published in English which do not require translation.
  - *St. Petersburg Mathematical Journal* maintains a relatively consistent subscription rate and seems to be worth continuing to translate and publish.
  - *Sugaku Expositions* provides a valuable contribution to the community since articles published in this journal would probably not otherwise be available outside of Japan.
  - *Theory of Probability and Mathematical Statistics* seems to have a fairly consistent subscription rate, but the number of editorial board members publishing in the journal raises concerns about its academic merit, and the subcommittee recommends discontinuation of this journal.

CPub endorsed the subcommittee's recommendation to discontinue the translation journal *Theory of Probability and Mathematical Statistics* and to forward that recommendation to Council.

New Business

- ***Online Journal of Analytic Combinatorics Proposal***
  In June 2015, a proposal to take over publication of the *Online Journal of Analytic Combinatorics* (OJAC) was received and forwarded to a subcommittee established by the CPub chair for evaluation. The subcommittee was tasked with reviewing the proposal according to the *Guidelines for Reviewing Proposals to Launch a New Topical Journal*, which were adopted by CPub in 2014, and making a recommendation on the proposal for consideration by the full committee at the time of CPub's annual meeting. The Committee discussed the proposal and the subcommittee's evaluation report at length and endorsed the subcommittee's recommendations that OJAC become an AMS journal and that its health be carefully reviewed when CPub conducts its next review of the non-primary AMS journals in 2019. The proposal will go forward to Council with these recommendations from CPub.

- ***Computational Reproducibility Guidelines for Mathematics***
  CPub approved a proposal from AMS Publisher Sergei Gelfand and Associate Executive Director, Meetings and Professional Services, T. Christine Stevens to establish a joint subcommittee consisting of two members each from CPub and the Committee on the Profession (CoProf) to consider what role, if any, the AMS should have in the creation of guidelines for computational reproducibility standards for the mathematical community.

  The joint CPub-CoProf subcommittee's charge is as follows:

  A subcommittee consisting of two members each from the AMS Committee on Publications (CPub) and the AMS Committee on the Profession (CoProf), should be formed with the goal of determining:

  a) Whether guidelines for the submission, refereeing, and publication of articles containing computational mathematics are needed;
  b) Whether the AMS and its policy committees are appropriate bodies to create such guidelines; and

c) If the answers to a) and b) are positive, what further steps should be taken?

It is recommended that the proposed subcommittee be formed immediately, with the goal of preparing and submitting its recommendations to AMS Publisher Sergei Gelfand and Associate Executive Director, Meetings and Professional Services, T. Christine Stevens by the end of 2015.

The subcommittee has since been established, and its work has begun. Greg Kuperberg and Sergei Gelfand have been appointed to serve on the subcommittee on behalf of CPub, and Bill McCallum (chair) and Joseph Silverman have been appointed to serve on behalf of CoProf.

Informational/Other Items

- ***New Technologies Presentation: Tizra and Lens***
  Associate Executive Director Robert Harington presented an overview and demonstration of the features of two new technologies in development for the Bookstore and online journals. AMS is working with Providence-based vendor Tizra to launch a new and enhanced online bookstore, expected to go live later this year, which will enable both print and electronic sales of content to individual purchasers and offer web-based, e-reader technology. AMS is also researching use of the browser-based, open-source tool eLife Lens to offer an enriched experience for reading journal articles online. Lens technology allows readers to explore key elements and features of an article, such as table of contents, figures, and references, as well as information about the article itself, such as the submission and publication dates, all without having to leave their current place within the text. AMS is considering use of Lens for its two gold open-access journals, *Proceedings of the AMS, Series B* and *Transactions of the AMS, Series B*.

- ***Mathematical Publishing Panel/Presentation at ECM***
  AMS is collaborating with the European Mathematical Society to organize a joint mathematical publishing panel/presentation focusing on technological innovations, electronic distribution, and topics concerning public access mandates at next summer's 7th European Congress of Mathematics (to be held in Berlin, July 18-22, 2016). Executive Director Don McClure solicited input and suggestions from the Committee for this event.

- ***2016 CPub Meeting***
  - CPub's 2016 meeting will be held Friday and Saturday, September 16-17, 2016, at the AMS Headquarters in Providence, RI.
  - The Managing Editors of the four primary journals (*Journal of the AMS*, *Mathematics of Computation*, *Proceedings of the AMS*, and *Transactions of the AMS*) will be invited to attend CPub's 2016 meeting.
  - An evaluation of the AMS Book Program will be conducted by CPub in 2016.

Sergei Gelfand
Publisher
October 20, 2015

Committee on the Profession
Annual Report
2015

The Committee on the Profession (CoProf) held its annual meeting on September 19-20, 2015, at the Hilton Chicago O'Hare Airport Hotel. Allan Greenleaf, University of Rochester, chaired the meeting, highlights of which are summarized below.

Regular agenda items:

- **Annual Review**: CoProf's annual review, conducted by a subcommittee, focused on identifying additional venues in which AMS prizes and awards could be presented. An agreement between the AMS and the Mathematical Association of America limits the number of prizes that may be given at the Joint Prize Session at the Joint Mathematics Meetings (JMM). As new prizes are added, it may become necessary to award some prizes in venues other than the Joint Prize Session.

  The subcommittee made two specific recommendations. The first was to award the Conant Prize in conjunction with the annual Conant Lecture at Worcester Polytechnic Institute. That institution has given informal support for such an arrangement. The second was to devote one of the five AMS Invited Addresses at JMM to a lecture by the winner of the Steele Prize for Lifetime Achievement (or a designee), with the prize awarded at the start of the Invited Address. CoProf approved both recommendations. The first will go to the Council, and the second will be considered by the Secretariat and the Committee on Meetings and Conferences.

- **New prize in stochastic theory and modeling**: CoProf was apprised of the possibility of establishing a new prize in stochastic theory and modeling. It voted to support the creation of an AMS prize in this area, with final details to be discussed and approved by the Council. It did so with the understanding that the prize might have to be on the ECBT agenda in November 2015, in order to meet a request from the donors regarding the timing of their contributions.

- **Information Statements on the Culture of Research and Scholarship in Mathematics:** CoProf discussed possible updates to its existing information statements regarding the culture of research and scholarship in mathematics and its differences from other sciences and engineering. It suggested several changes in wording, and final versions will be circulated for approval by email. CoProf also adopted a new statement regarding Arm's Length Letters of Evaluation. It recommended making it easier to find these statements, as well as other information for department leaders, on the AMS website**.**

- **Mathematics Programs that Make a Difference**: Each year, CoProf recognizes at most two programs that succeed in bringing and keeping "more persons from underrepresented backgrounds into some portion of the pipeline beginning at the undergraduate level and leading to advanced degrees in mathematics and professional success." The programs

recognized in 2015 were the Center for Undergraduate Research in Mathematics (CURM) at Brigham Young University and the Pacific Coast Undergraduate Mathematics Conference (PCUMC). Nominations for the 2016 award were due on September 15, 2015, and the one or two programs that are selected will be featured in the May 2016 issue of *Notices*.

- **Written Reports**: Staff reports on the following topics were included in the CoProf agenda: the Department Chairs Workshop, Membership, Employment Services of the AMS, Graduate Student Chapters, and Mathematics Research Communities.

- **JMM Panel**: CoProf will sponsor a panel at JMM 2016 entitled "Promoting mathematics to policy makers and the public." Speakers include Jordan Ellenberg, Kristin Lauter, William Massey and Sam Rankin. CoProf brainstormed about possible topics for 2017 and decided to continue the discussion by email.

- **Standing Committees**: CoProf asked the Committee on Members and Member Benefits to consider ways in which the AMS can increase members' awareness of existing AMS programs and to provide a sounding board for the new Director of Membership Development, once one has been hired. The Prize Oversight Subcommittee was asked to develop a "wish list" of new prizes.

Agenda items that were endorsed by CoProf and will be taken to the Council for consideration (in addition to the aforementioned recommendation about the Conant Prize):

- **Bertrand Russell Prize**: CoProf endorsed the proposed Bertrand Russell Prize to honor "research or service contributions of mathematicians or related professionals to promoting good in the world" and to "recognize the various ways that mathematics furthers human values."

- **Nomination procedure for the Steele Prizes**: CoProf discussed a recommendation from the Steele Prize Committee that limitations be established on the amount of material that can be submitted as part of a nomination for each of the Steele Prizes. CoProf agreed that it was reasonable to establish page limits on the nomination materials and endorsed "in spirit" the recommendation of the Steele Prize Committee regarding the material that can be submitted.

- **AMS Anti-Harassment Statement**: The current AMS Policy Statement on Sexual Harassment (www.ams.org/about-us/governance/policy-statements/sexualharassment) was approved by the Council in 1994. At its meeting in September 2014, CoProf created a subcommittee to review that statement, with the goal of possibly modifying and updating it. In September 2015, CoProf approved a new AMS Anti-Harrassment Statement, which was subsequently reviewed by the Society's attorney. The final version was approved by CoProf by email.

Other business:

- **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. Other organizations with such programs include the American Philosophical Society and the American Astronomical Society. CoProf formed a subcommittee to study the possibility that the AMS develop a similar program.

- **CoWIM Report**: CoProf heard an oral report from the Committee on Women in Mathematics (CoWIM), which shared its views on the proposed AMS Anti-Harrassment Statement and on the "site visits" program mentioned above. Regarding the latter, it felt that the idea is worth investigating and that the next step would be for CoProf to consider the feasibility and desirability of such a program. CoWIM also recommended that one of its members serve on the Joint Committee on Women.

- **Computational Reproducibility Guidelines for Mathematics**: Currently there are no established guidelines or policies about how to submit, referee, and publish mathematical articles with significant computational components. CoProf agreed to appoint a joint subcommittee of CoProf and the Committee on Publications (CPub) – with two members from each committee -- to consider what role, if any, AMS should have in the creation of guidelines for computational reproducibility standards for the mathematical community.

- **Committee on Academic Freedom, Tenure, and Employment Security (CAFTES)**: In response to issues raised by the chair of CAFTES, CoProf established a subcommittee to review its charge, with the goal of making it more realistic.

- **Relationship between AMS and the National Security Agency (NSA)**: CoProf discussed the possibility of adding a page to the AMS website that describes the NSA grants program and the Society's role in managing the review process. CoProf responded favorably to this suggestion and left the details to be worked out by AMS staff.

- **AMS Fellows program**: CoProf considered the report of the AMS Fellows Selection Committee, which sought guidance about whether it is appropriate to elect as a Fellow someone who is currently serving in a government agency or private foundation in a policy-making capacity concerning funding of mathematics. CoProf chose not to address that issue but expressed concern that the number of Fellows currently selected annually is too small and that it may be creating ill will in the mathematical community.

- **Nominations by petition**: CoProf discussed the existing policies that govern nominations by petition and decided not to recommend any changes to the process. They felt, however, that the following statement should be removed from the Nomination by Petition instructions that are published in *Notices*: "The Council of 23 January 1979 stated the intent of the Council of

nominating all persons on whose behalf there were valid petitions." CoProf did not view the statement in question as binding the Council to accept a nomination by petition.

- **Proposal that the AMS provide an institutional home for the National Alliance for Doctoral Studies in the Mathematical Sciences**: CoProf was updated about plans for the AMS's new Department of Education and Diversity, and it discussed a proposal for the AMS to provide an institutional home for the National Alliance for Doctoral Studies in the Mathematical Sciences. That proposal was also scheduled to be considered by the Committee on Education. Members of CoProf asked about how the Alliance would fit into the Department of Education and Diversity and what other activities that department might pursue. They also requested additional data about the track record of the Alliance. It was agreed that CoProf would continue this discussion electronically, prior to voting on the proposal.

- **Strategic Planning**: CoProf received an update on the AMS's strategic planning process.

- **Annual review for 2016**: CoProf discussed possible topics for its annual review in 2016 and agreed to finalize the choice by email.

- ***Next meeting***: The Committee on the Profession will hold its next meeting on September 17-18, 2016, at AMS Headquarters in Providence.

T. Christine Stevens
Associate Executive Director
October, 2015

Report on the 2015 Annual Meeting of the Mathematical Reviews Editorial Committee

The 2015 annual meeting of the Mathematical Reviews Editorial Committee (MREC) was held on Monday, October 12, in the Mathematical Reviews offices in Ann Arbor, Michigan. In attendance were committee members: Andreas Frommer, Cameron Gordon, Barbara Keyfitz, Jeffrey Lagarias, Shigefumi Mori, Ronald Solomon (Chair), Donald McClure (AMS Executive Director) and Zbigniew Nitecki (AMS Associate Treasurer). Also present were: Danny Calegari (scheduled to join MREC in February 2016), Edward Dunne (MR Executive Editor), Norman Richert (MR Managing Editor) and MR Associate Editors: Andrés Caicedo, Dean Carlson, Chris Elmer, James Epperson, Robert Hladky, Guo Ying Jiang, Michael Jones, Tadeusz Jozefiak, Vasilii Kurta, Milan Lukic, Lon Mitchell, Victor Protsak, Margaret Stawiska-Friedland.

The meeting began after a tour of the Mathematical Reviews building.

1. *MREC Membership.* Cameron Gordon will rotate off the committee in January 2016, before the next meeting of MREC. Danny Calegari has been appointed to be his replacement. In January 2017, Ron Solomon will complete his second term on the committee and will rotate off.

2. *Date of Next Meeting***.** The next MREC meeting will be Monday, October 10, 2016.

3. *Approval of the Minutes of the 2014.* The minutes of the meeting held on October 13, 2014 were approved with no changes.

4. *MREC: Charge to the committee.* The charge for MREC has not updated for several years. MREC reviewed the current charge and unanimously approved the motion to recommend to Council that the sentence: *Traditionally, one member of the committee has been from the Ann Arbor campus, the University of Michigan and has chaired the committee (there have been exceptions).* be replaced by *Traditionally, one member of the committee has been from the Ann Arbor campus of the University of Michigan.* This will be sent to Council, via the AMS Secretary.

5. *Update on MR Activities***.** Dunne highlighted recent activities, including: the public author profile page, an upcoming feature for author names in native script on profile pages, activities related to the development of APIs for MathSciNet, moving from Lucene to Elasticsearch

6. *Subscription Information.* McClure reported on current subscription rates and recent trends for subscriptions, including the MathSciNet for Developing Countries Program (MDC). There are now 45 countries now participating in the MDC for MathSciNet.

7. *MR Database Statistics* Norman Richert, Managing Editor, presented statistics concerning the growth in the number of items in the MR Database.

** At this point, the MR Associate Editors joined the meeting.*

8. *Marginal journals.* There was a discussion of the difficulty in distinguishing between journals with little or no mathematics from those with some mathematical content, but from mathematicians who were isolated geographically, topically, or otherwise.

9. *Adding collections to the reference list program.* Some collections and series have many of the hallmarks of journals and are publishing papers of comparable quality to the papers in reference list journals. MREC discussed the possibility of adding collections or series to the reference list program, and encouraged the MR staff to look further into the logistics and ramifications of adding certain collections to the reference list program.

10. *Reference List Journals.* MR editors presented a list of 16 journals to MREC for addition to the reference list program. One journal had been approved mid-year by MREC. Thirteen other journals were also approved. The decisions on two journals were postponed for a year.

11. *Review of MR Editorial Statement***.** MREC reviewed the MR Editorial Statement, voting unanimously to modify it as follows. Replace the sentence

    Author names appearing in items added to the MRDB are given special attention; this, in particular, enables users of MR information to retrieve the publications of a given individual.

    by

    Identification of author names appearing in items added to the MRDB is given special attention; this, in particular, enables users of MR information to retrieve the publications of a given individual.

12. *MR-zbMATH News***.** Dunne presented data on Mathematical Reviews and zbMATH coverage. It was noted that MR tends to be more prompt in covering the literature, but that zbMATH eventually catches up. It was also noted that in most applied areas, coverage by MR is at least as good as coverage by zbMATH, with the exception of Computer Science.

Edward Dunne
Executive Editor
Mathematical Reviews
October 24, 2015

Washington Office Report
October 22, 2015

Federal Budget

On October 1, 2015 we entered fiscal year (FY) 2016 and once again the Congress has failed to produce a federal budget on time requiring the passage of a Continuing Budget Resolution (CR) that allows agencies to remain open, operating within the FY 2015 federal budget level or slightly less. This CR is good until December 11, 2015 at which time Congress will have to pass a budget or another CR or the government will be forced to close. The President has said that he will not sign another CR and will not sign an appropriations bill that continues to be bound by sequestration budget caps.

The House has passed six of the twelve appropriations bills including the Commerce, Justice, Science and Related Agencies (CJS) and the Energy and Water (EW) bills. The CJS bill provides the budget for the National Science Foundation (NSF) and EW the budget for the Office of Science at the Department of Energy. The Senate Committee on Appropriations has approved nine bills. The Senate CJS bill has not been passed by the full Senate Appropriations Committee.

The House has passed a NSF 2016 budget of $7,394,205,000 -- an increase of $ 50,000,000 over the FY 2015 NSF budget and $329,345,000 below the FY 2016 budget request. Research and related activities received $5,983,645,000 -- an increase of $50,000,000 over the FY 2015 level and $202,655,000 below the budget request. The Education and Human Resources (EHR) Directorate received $866,000,000 -- no increase over FY 2015, but $96,570,000 less than the budget request. The House bill report language directs NSF to ensure that the directorates of Mathematical and Physical Sciences (MPS); Computer and Information Science and Engineering (CISE); Engineering (ENG); and Biological Sciences (BIO) receive no less than 70 percent of the funding within the research and related activities account. Further, the House CJS Committee directs NSF to allocate no less than the FY 2015 budget levels to the Office of International Science and Engineering (OISE); Integrative Activities (IA); and the U.S. Arctic Research Commission. Currently MPS, CISE, ENG, and BIO make up 65% of the R&RA budget. Providing 70 percent of $5,983,645,000 for MPS, CISE, ENG, and BIO plus FY 2015 levels for OSIE, IA, and the U.S. Arctic Research Commission would leave only $1,319.82 million for the Geosciences (GEO) and the Social, Behavioral, and Economic Sciences (SBE) directorates in FY 2016 -- 16.3 percent below the sum of the budgets for these two directorates in FY 2015.

The House CJS bill continues to emphasize support of neuroscience research including Brain Research through Advancing Innovative Neurotechnologies (BRAIN). The bill also supports research in advanced manufacturing, high performance computing, ocean drilling, and dyslexia.

The CJS Subcommittee commends NSF's Innovation Corps, http://www.nsf.gov/news/special_reports/i-corps/, for its work in supporting entrepreneurship and commercialization of technologies produced by NSF grantees. The House encourages NSF to work with other federal agencies to enable researchers funded by those agencies to be eligible to participate in the NSF I-Corps program. The NSF is urged to provide a plan for maintaining and modernizing its big data and high performance computing infrastructure that support all areas of scientific research and education.

For EHR, the House bill specifically emphasizes broadening participation of underrepresented populations in STEM education. Programs promoting participation of underrepresented groups in STEM fields are the Historically Black Colleges and Universities Program; the Louis Stokes Alliance for Minority Participation; and, the Tribal Colleges and Universities Program. The bill also directs NSF to provide $30,000,000 for Hispanic Serving Institutions through these programs: Advanced Technological Education; Improving STEM Undergraduate Education; Robert Noyce Teacher Scholarship; and Scholarships in STEM.

The Senate CJS Subcommittee on Appropriations approved a FY 2016 NSF budget of $7,343,775,000 -- $430,000 below the FY 2015 NSF budget, $379,775,000 below the FY 2016 budget request and $50,430,000 below the House FY 2016 NSF budget. The Committee provided research and related activities a FY 2016 budget of $5,933,645,000 -- the same as the FY 2015 level, $252,655,000 below the FY 2016 budget request and $50,000,000 below the House FY 2016 budget level. Programs specifically mentioned include the National Radio Astronomy Observatory; advanced manufacturing; cybersecurity; ocean science infrastructure; and, the importance of mathematical sciences research institutes. The Senate report language encourages NSF to work with Historically Black Colleges and Universities (HBCU) to help them become more effective when competing for federal research funding. The Senate CJS Committee is concerned that the U.S. demand for steel has led the country to be the number one net importer of steel. The Committee supports the NSF Industrial Innovation and Partnerships program's continued research into the steel industry and its capabilities.

The Subcommittee provided the Education and Human Resources Directorate with a FY 2016 budget of $866,000,000 -- the same as FY 2015 and the FY 2016 House level, and $96,570,000 below the FY 2016 budget request amount. Bill language includes the need for supporting activities that connect school districts with institutions of higher learning to improve pre-college education. Increasing the STEM talent pool is mentioned, as is increasing the participation of groups underrepresented in STEM subjects.

The Senate report language states that NSF is well-suited to handle undergraduate and graduate fellowships, internships, and specific grants similar to NSF's current mission and, if there are general needs across government, that NSF could similarly serve as a clearinghouse for such students. The Committee requests that NSF continue to work with the Office of Science and Technology Policy (OSTP) on refining a plan for ways NSF could implement a broader program for graduate and undergraduate programs across the entire federal government, and to identify which programs across government could benefit from such a program.

The House has passed its Energy and Water (EW) Appropriations bill while the Senate Appropriations Committee has marked up its bill. The House bill provides a FY 2016 budget of $5,100,000,000 for the Department of Energy's Office of Science. This level of funding is $29,000,000 over the FY 2015 budget and $239,794,000 below the Office of Science budget request. The Advanced Scientific Computing Research (ASCR) office is included in the Office of Science budget and is provided a FY 2016 budget of $537,539,000 -- $3,461,000 below FY 2015 and $83,455,000 below the budget request. The Applied Mathematics and Scientific Discovery through Advanced Computing (SciDAC) programs are funded

through ASCR. For mathematical, computational, and computer sciences research, the budget recommendation is not less than $175,503,000.

Priorities in the House bill for ASCR are exascale computing; high performance computing and network facilities; and the BRAIN Initiative. The House EW committee encourages the Department to work with the NSF and the National Institutes of Health on a national brain observatory to leverage its high performance computing capabilities to advance a deeper understanding of the brain and how it works.

The Senate EW Subcommittee mark-up provides $5,143,877,000 for the Office of Science -- $72,877,000 over the FY 2015 budget level, $43,877,000 over the House FY 2016 budget level, and $195,917,000 below the budget request. The Committee recommends $620,994,000 for ASCR -- $83,455,000 over the House FY 2016 ASCR budget and equal to the budget request.

The Senate Appropriations Committee strongly supports the exascale initiative, which is critical to maintaining our global competitiveness and supporting national security. The Committee also supports the Oak Ridge Leadership Computing Facility and the National Energy Research Scientific Computing Center facility at Lawrence Berkeley National Laboratory.

The House recently passed the America COMPETES Reauthorization Act of 2015 (H.R.1806). This bill reduces the GEO and SBE FY 2016 budgets below FY 2015 levels. The chair of the House Science, Space and Technology Committee (HSST), the authorizing committee for NSF, pushed for these cuts. Over the last two years, the chair of HSST has been very critical of NSF management and has publicly criticized a number of NSF grants as unworthy of federal funding. He wants NSF to fund only research that is in the "national interest." The House CJS bill report supports the language of H.R. 1806 that requires that funded grants must support research that is in the national interest and a NSF official must sign off on awarded grants justifying, in fact, that the grants do support research that is in the national interest.

Open Access

In a February 2013 memorandum from the Office of Science and Technology Policy (OSTP), based on Public Law 111-358, federal agencies with over $100 million in annual research and development expenditures were asked to submit a draft plan to support increased public access to results of research funded by the federal government. OSTP, in coordination with the Office of Management and Budget (OMB), have reviewed these plans and most of the agencies involved are now making their plans public. Many of the plans are using a model similar to the National Institutes of Health (NIH). The NIH model has a repository, PubMed Central (PMC), which accepts published research articles based on federally funded research. The NIH model requires that the final accepted manuscript of an article based on federally funded research be placed in PMC no later than twelve months after the article has been published in a journal.

Even though most agencies have responded to Public Law 111-358 and the OSTP memo, legislation regarding open access to articles based on federally-supported research is still being introduced. This legislation is usually a reaction to constituent pressure and is most often directed at the length of the

post-publication embargo period before making an article freely available, a troublesome issue for publishers. These bills usually want embargo periods of 6 to 12 months. The Government Affairs Task Force (GATF), a group of for-profit and non-profit publishers, continues to work at convincing policy makers that one embargo period does not work well for all disciplines and that there should be a process to change an embargo period for a discipline when a current embargo negatively impacts publishers. Recently, GATF has been working with staff of the Senate Committee on Homeland Security and Government Affairs (HSGA) concerning proposed legislation (S. 779) on open access. This legislation has a maximum embargo of twelve months, no process to change the embargo period for a specific field, does not allow third party repositories, and the reuse policy may infringe on copyright. The HSGA Committee has made some concessions, however, has not gone far enough and GATF continues to advocate its position.

Education

The report language of the House and Senate CJS bills indicate the interest policymakers have in science, technology, engineering, and mathematics (STEM) education and in the STEM workforce. The NSF Education and Human Resources Directorate appropriation supports a comprehensive set of programs across all levels of STEM education. Undergraduate activities support curriculum, laboratory, and instructional improvement; expand the STEM talent pool; attract STEM participants to teaching; and augment advanced technological education at 2-year colleges. Both CJS committees urge NSF to work on broadening the participation of underrepresented populations in STEM education programs, and, ultimately, the STEM workforce. The House Committee encourages the Advanced Informal STEM learning program and sees this program as a way to increase minority interest in STEM disciplines by providing out of classroom educational experiences that are aligned with college and career readiness standards.

The House Committee on Science, Space, and Technology introduced a bill, the STEM Education Act of 2015, which passed into law. This legislation focuses on Informal STEM education and the Noyce professional development programs at NSF.

The AMS Committee on Education (COE) continues to have a strong interest in improving undergraduate mathematics education, especially in the first two years of college. The last three COE meetings have focused on changes in undergraduate education. COE members and department representatives attending the meetings find them stimulating as well as educational.

Other Activities

The Washington Office continues to work with coalitions and ad hoc groups including the Coalition for National Science Funding (CNSF); the Government Affairs Task Force (GATF); the Task Force on American Innovation; NDD UNITED, a coalition advocating for nondefense discretionary programs; and, small groups representing several professional societies and organizations. Issues of focus by one or more of these coalitions include federal funding for basic research; open access to publications based on

federally funded research; caps on defense and non-defense discretionary spending; and attacks on the Social, Behavioral and Economic Sciences and Geosciences directorates of NSF.

The Washington Office organized three CNSF letters: (1) a letter to every member of congress urging a FY 2016 budget of $7.7 billion for NSF; (2) a letter to Rep. Lamar Smith and Rep. Eddie Bernice Johnson urging a strong America COMPETES bill; and (3) a letter to Representatives Rogers, Culberson, Lowey, and Fattah raising concerns about the House CJS bill.

Anita Benjamin organized the twenty-first annual CNSF Capitol Hill Exhibition on April 29, 2015. There were 275 attendees at the event, including nine members of Congress. The AMS sponsored Prof. Katharine Gurski from Howard University. Her project was titled "Mathematical Algorithms for Tsunamis, Space Weather, and Plasma Physics."

The director of the Washington Office continues to participate in meetings in the House and Senate regarding appropriations and authorization of NSF, as well as meetings regarding a major cut to the NSF Directorate of Social, Behavioral, and Economic Sciences, and meetings organized by GATF regarding open access. The GATF meetings are for the purpose of keeping the agency open access process initiated by the Office of Science and Technology, per Public Law 111-358, alive and to argue for flexible embargo periods, based on disciplinary journal usage statistics.

The AMS continues to support the "Golden Goose" Award (named as a parody of the late Senator Proxmire's Golden Fleece Award) which honors scientists whose federally-funded research, perceived by some at the time as obscure, has led to major breakthroughs and resulted in significant societal impact. This year there were seven winners, including Joel Cohen, a mathematical biologist and Christopher Small, a geophysicist , whose obscure, curiosity driven research in hypsographic demography – the study of how human populations are distributed by altitude – has provided crucial insights in areas as diverse as food production and packaging, semiconductor manufacturing, and biomedical research and development. Joel Cohen was the 2003 AMS Congressional Luncheon speaker.

Samuel M. Rankin
Associate Executive Director, Washington Office
October 2015

Determining the 2017 Individual Member Dues Recommendation to the Council

In May 2015 the Board of Trustees approved a modification of the principles that guide the setting of individual member dues. Since the year 2017 is the first one to which the modified guidelines will be applied, we begin with a brief review of the change.

Background: The Previous Guidelines.

In May 2004 the Board of Trustees approved, and the Executive Committee recommended to the January 2005 Council, a new procedure for setting dues each year, replacing the (almost) automatic formula that was used for many years by a procedure based on a set of principles for setting dues. The new procedure was approved by the Council and was first used in setting dues for 2006. The procedure requires beginning the process of setting dues slightly earlier than before. To change the dues rate for year X+2, the discussions must begin in year X.

- In November of year X, staff makes a recommendation about dues, following the principles described below. The ECBT 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.

The process for setting dues is meant to be guided by the following principles.

Principle 1: The total revenue from individual 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 Modified Guidelines

Prior to 2015, the individual dues did not exceed the total net direct costs of the membership areas listed in Principle 1 for four consecutive years. The reason that the individual dues could no longer cover these costs is that membership dues declined over a number of years while expenses grew with each passing year. Thus Principle 1 called for a large increase in dues, which would violate the other two principles. In May 2015 the Board of Trustees amended Principle 1 so that it would include revenues from institutional, as well as individual, dues. With this change, Principle 1 became:

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.

Recommendation for 2017 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 margin. Thus the requirements of Principle 1 have been met.

Nevertheless, the staff recommend a small increase in dues for 2017. For the near future, we will continue to experience the problem of static dues revenues and rising costs. 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 these costs. 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.

There is a significant rise in the Net Direct Cost of Membership Activities in 2016. This increase is due to a large increase in Membership Development and Administration costs. The increase in Membership Development costs is due to the expected addition of Membership Development staff in 2016.

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
2014	1,270	1,149	(1,466)	953
2015 Projected	1,243	1,179	(1,675)	738
2016 Budget	1,234	1,186	(2,033)	389
2017- $188	1,234	1,186	(2,033)	389
2017 - $192	1,260	1,186	(2,033)	413
2017 - $196	1,287	1,186	(2,033)	440

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 and 7, as presented to the ABC.
3. 2015 dues revenue reflects current projections and 2016 dues revenue is as budgeted. The three scenarios presented for 2017 dues assume a paying membership similar to that budgeted for 2016.

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 2014 (the last year of actual data), the cumulative dues increase as of 2015 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 less 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).

Therefore, AMS staff members recommend that the regular high dues rate for 2017 be set at $192, with the salary cutoff for high/low rates remaining at $85,000. This is a $4 increase over the dues for 2016.

T. Christine Stevens, Associate Executive Director
Emily D. Riley, Chief Financial Officer
October 2015

Factors for Consideration in Setting Individual Dues Rates for 2017

	Faculty Salaries Data					Inflation Data		Regular High Dues Rates		
	AAUP Reports		AMS Annual Survey							
Academic Year Beginning	Annual Increase	Cumulative Increase	Doctoral Departments	Cumulative Increase	Calendar Year	Annual Increase CPI-U	Cumulative Increase CPI-U	Actual Dues	Cumulative Increase	High/Low Cutoff
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%	49.4%	180	50.0%	85,000
					2015 proj	0.5%	52.4%	184	53.3%	85,000
					2016 est	2.0%	53.2%	188	56.7%	85,000
					2017	2.0%	55.4%	**188**	56.7%	85,000
					2017	2.0%	55.4%	**192**	60.0%	85,000
					2017	2.0%	55.4%	**196**	63.3%	85,000

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 2015, 2016 and 2017.

Update on proposals planned or submitted

CBMS2015: A Study of Undergraduate Programs in the Mathematical and Statistical Sciences in the United States (submitted)

- Funding to support the 2015 CBMS Survey and Report
- Revised budget is $518,574.
- Proposal submitted in March 2014 to the Directorate for Education & Human Resources, National Science Foundation
- Requested amount was fully funded on August 12, 2015.

The proposed project (CBMS2015) carries out a comprehensive stratified random sample survey of the nation's undergraduate mathematical and statistical sciences programs at two-year and four-year institutions in the fall of 2015. A report of the survey findings will be published online in the spring or summer of 2017, The project continues a cross-sectional survey of undergraduate programs that has been done every five years since 1965. The project is coordinated by the Conference Board for the Mathematical Sciences (CBMS) and will be managed by the AMS.

The original budget request was revised to reflect the use of approximately $105,000 of residual funds available from the NSF grant for CBMS2010.

Mathematics Research Communities, 2017-2019

- Support of Mathematics Research Communities for 2017, 2018 and 2019
- Expected request of approximately $1,300,000
- Proposal to be submitted to the Infrastructure Program, Division of Mathematical Sciences at NSF

The current funding for the MRCs supports the program through 2016. Discussions with NSF about renewal of support have taken place. The renewal proposal needs to be submitted in fall 2015 or soon thereafter.

The ECBT approved preparation and submission of this proposal in May 2015. The proposal is now being prepared and is expected to be submitted before year end.

Joint proposal of the AMS and the National Alliance for Doctoral Studies in the Mathematical Sciences for support of the 2016 *Field of Dreams* conference

- Expected request of approximately $150,000
- Likely to be submitted for joint funding by the Education and Human Resources Directorate (DGE and HRD) and Mathematical and Physical Sciences Directorate (DMS) at NSF

We planned to collaborate with the National Alliance while the Council and Board of Trustees consider the possibility of the AMS becoming an institutional home for the National Alliance. This joint proposal is a modest step in that direction that must be acted on before a final decision about becoming an institutional home can be made. The proposal needs to be submitted by the fall of 2015.

The ECBT approved preparation and submission of this proposal at its May meeting. The plan is currently on hold.

Proposal to support travel grants for MCA2017

- Proposal to be submitted to the Infrastructure Program, Division of Mathematical Sciences at NSF
- A request in the range of $100,000 to $120,000 is likely

SIAM has expressed some interest in jointly making a proposal to NSF for MCA2017 travel support of invited speakers and early career participants from the U.S. I had earlier felt that such a proposal might not be necessary for a meeting in Montreal. But the Canadian hosts anticipate having a higher registration fee than MCA2013 did. If such a travel-grant proposal were prepared, it would probably include the MAA as well. The NSF funded a proposal for $105,000 in 2013 when MCA2017 was held in Guanajuato.

The proposal would be submitted in early spring 2016.

We request approval of the ECBT to plan, prepare and submit this proposal.

Renewal proposal to the Simons Foundation to support the AMS-Simons travel grants in 2017, 2018, and 2019

- Funding request on the order of $900,000 to $1,000,000 is expected

The current funding from the Simons Foundation will support the competition for new travel-grant awards for recent doctoral recipients in 2016. Continuation of the program after 2016 requires a renewal of the funding. The proposal should be submitted in spring or summer 2016.

We request approval of the ECBT to plan, prepare and submit this proposal.

Travel Support for the *Math in Moscow* Program

- Funding request of about $320,000
- To be submitted to the DMS Infrastructure Program in fall 2016 (co-funded)

The Independent University of Moscow (IUM) is a small, elite institution of higher learning that focuses primarily on mathematics. It was founded in 1991 at the initiative of a group of well-known Russian research mathematicians, who now comprise the Academic Council of the University. Since April 2001, the National Science Foundation (NSF) has awarded four continuing grants to the American Mathematical Society (AMS) with funds to be used to support mathematically talented U.S. undergraduates for a semester of study at the *Math in Moscow* program of the IUM. Based on the success of the existing Travel Support for the *Math in Moscow* Program, the AMS is requesting a continuation of funding for three years, in the amount of about $320,000. These funds will be used to underwrite a substantial part of the typical cost for a semester of study in the program for ten undergraduates per (academic) year.

The *Math in Moscow* program is a fifteen-week-long research experience for mathematically talented students. This program consists primarily of courses in mathematics and theoretical computer science, and provides an academically enriching experience because it allows mathematically talented students to meet and work with other students who share a talent and interest in mathematics, as well as the chance to work with some of the world's leading mathematicians. The program provides an experience of mathematics that the students would not find in the U.S. This is because students experience the field of mathematics as it is practiced in the Russian tradition, the main feature of which has always been the development of a creative approach to mathematics, with the emphasis being on problem solving rather than memorizing theorems. Indeed, for the Independent University, discovering mathematics under the guidance of an experienced teacher is the central principle of its program, and the *Math in Moscow* program emphasizes in-depth understanding of carefully selected material rather than broad surveys of large quantities of material.

In addition to the academically enriching experience that the *Math in Moscow* program provides, there is another strong rationale for supporting such a program. It is a way to build vital scholarly connections between the Russian and U.S. mathematics communities, which are certainly in the best interest for the future scientific research of both countries. Creating ties between mathematicians in our two communities, both young and old, will promote scientific cooperation far into the future.

We request approval of the ECBT to plan, prepare and submit this proposal.

Donald McClure
Executive Director
November 4, 2015

Report of the Executive Director: *State of the AMS, 2014*

I am pleased to report that 2014 was again a successful year for the AMS. The Society remains financially healthy, very active in supporting the mathematics community, and flexible in addressing professional and public advocacy issues, thanks to the efforts of its members and dedicated staff. Several notable events and transitions occurred in 2014.

• The Joint Mathematics Meetings (JMM) in Baltimore maintained the very high level of participation of the previous two JMMs. The total registration of 6,448 was 26 percent greater than that of the 2003 JMM in Baltimore and essentially equal to the 2013 attendance in San Diego.

• Edward Dunne became Executive Editor of Mathematical Reviews (MR) in August, succeeding Graeme Fairweather who completed six years of service upon retirement in the summer. Ed moved to MR from his previous position as Senior Editor in the Editorial Division of the AMS.

• T. Christine Stevens joined the AMS in August as Associate Executive Director (AED) of Meetings and Professional Services. She succeeded Ellen Maycock who started a period of phased retirement after nine years as AED. Chris is widely known for her service to the mathematics community, notably her role in the building and the leadership of MAA's Project NExT.

Current Issues

An issue affecting the AMS in its role as a scholarly publisher is the steady growth of research literature in the mathematical sciences. A society publisher such as the AMS has its incentives perfectly aligned with the community members and with research libraries. During the period 2000 through 2009, the number of new research articles published annually in journals covered by Mathematical Reviews increased by 37 percent, a compounded annual growth rate of 3.6 percent. To accommodate the growth in the volume of research literature, the AMS should be publishing more—and the Committee on Publications reached the same conclusion in its 2014 review of the primary research journals. An unanticipated issue affecting the mathematics community and the AMS stemmed from the summer 2013 revelations about the National Security Agency (NSA) by Edward Snowden. The controversies affected mathematics more than many other disciplines because of the major role that mathematics has in the NSA. During much of 2014, the *Notices of the AMS* provided a forum for presentation and discussion of disparate opinions in seven articles, an Opinion piece, and Letters to the Editor.

The Society made substantial progress on strategic planning for (1) membership, professional programs, and activities of the Washington office, (2) journal and book publishing, and (3) MathSciNet®. The last section of this report highlights some findings from a survey of the mathematics community designed to help guide the formulation of strategic initiatives.

Highlights of 2014 Activities

The Society's major activities rely on the contributions of dedicated volunteers and staff as well as the philanthropy of many individuals. We are grateful for their contributions.

Serving the Community

Mathematicians continue to attend meetings and conferences in person—to learn, advance their careers, meet colleagues, and recognize recipients of AMS prizes and awards. While AMS staff handle the complicated logistics, AMS secretaries and organizers of special sessions and panels manage the scientific programs of AMS meetings. Special thanks go to AMS Secretary Carla Savage and Associate Secretaries Georgia Benkart, Brian D. Boe, Michel L. Lapidus, and Steven H. Weintraub and the many organizers, speakers, and panelists who contribute their time, leadership, and expertise.

James H. Simons, Chairman, Simons Foundation, gave the Einstein Public Lecture, "Mathematics, Common Sense, and Good Luck" at the sectional meeting at San Francisco State University in October. About 300 people filled the room to hear him talk about his career in mathematics, finance, and philanthropy. Some of the audience members were recipients of AMS-Simons Travel Grants, supported by the AMS and the Simons Foundation, and they came up and spoke with him afterward. It was nice to see the philanthropist and his beneficiaries connect in person and so warmly.

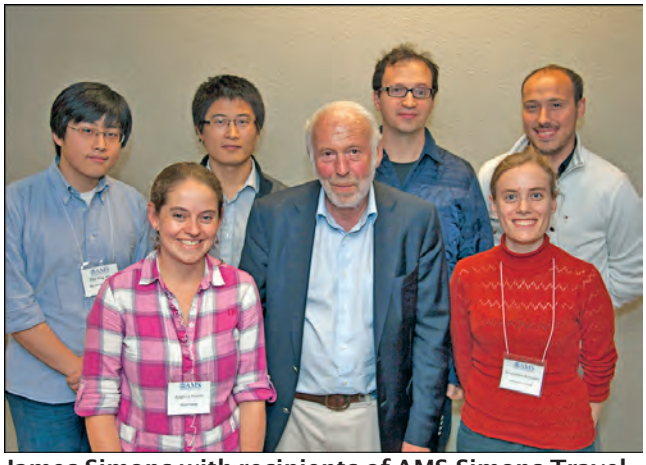


Photo by Lisa Sze.

James Simons with recipients of AMS-Simons Travel Grants, after his 2014 Einstein Lecture

The Mathematics Research Communities (MRC) program continues to be highly successful. The 2014 MRC summer conferences at the Snowbird Resort in Utah drew 120 early-career mathematicians. These conferences, funded by the National Science Foundation, are part of this AMS program that also includes special sessions at JMMs, ongoing support from conference organizers, and a continuation of the connections and collaborations funded substantially by endowment income. Through 2014, a total of 769 participants have taken part in the MRC program.

"I feel very lucky to have had the opportunity as a young researcher to participate in this MRC program. It is a great way to network, think about new research problems not entirely connected to your dissertation topic, and spend a week in a beautiful setting with people who are passionate about math. I would highly recommend the conference to anyone."

—2014 MRC participant

Each year, approximately 300 graduate students receive travel support from the AMS to attend meetings. About 100 students attended JMM in Baltimore with support. They were treated to a brunch where they could meet other students and members of the AMS leadership. The student travel grants are supported by one generous anonymous donor.

Members and the broader mathematical community also look to the AMS to provide crucial services—employment services, career information, and other opportunities to advance and get involved.

`MathJobs.org` and the Employment Center at the JMM remain valued by both employers and job seekers, especially for academic employment. By the end of 2014 MathJobs was serving over 8000 job applicants and 650 employers, including some international employers who began accepting job applications through the system in July 2014.

The AMS also gathers data on the profession in annual surveys regarding faculty recruitment, hiring and salaries, course enrollments, degrees awarded, and the demographics of new PhD recipients along with their employment status. The survey reports are vital for the mathematical sciences community in gaining support for programs, in understanding how one's department compares to peers, and in providing reliable information about employment patterns and higher education in mathematics, applied mathematics, and statistics.

Support of summer math camps for talented pre-college students continues to grow. The Epsilon endowment fund

Texas State Honors Summer Math Camp, Texas State University, San Marcos.

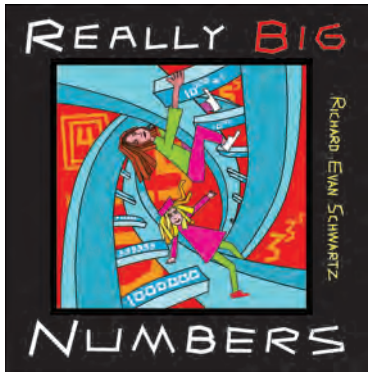
continues to be broadly supported by AMS member-donors. In 2014, the summer camps receiving Epsilon Fund grants hosted over 1,200 students. It is a great program in which a modest amount of funding contributes to the support of a very large number of individual beneficiaries.

AMS Publishing

Mathematical Reviews (MR) completed its 75th year of publishing comprehensive coverage of new research in the mathematical sciences. Over 126,000 items were added to the MR database, including more than 91,000 reviews. The growth in the mathematics literature presents a significant challenge to MathSciNet® in its mission of (1) covering all new research contributions in mathematics and, at the same time, (2) continuing to improve the capabilities of MathSciNet® for discovery of new research results; for example, the addition of fifteen new Reference List journals in 2014 improves the research-discovery capabilities of MathSciNet®. The strategic planning for MathSciNet® is addressing the challenge.

The Publishing Division under the leadership of Associate Executive Director Robert Harington continues to make major strides in broadening the availability of AMS eBooks. In 2014, the Society launched availability of backfile collections for *Memoirs of the AMS* and for the *Mathematical Surveys and Monographs* series. In all, 220 volumes of *Memoirs* were released, spanning the years 1950 to 2012, and 169 volumes of *Surveys* were released, spanning the years 1943 to 2010. The newly digitized volumes all meet the highest quality standards. The release of other electronic book series continues in 2015.

In 2014, the book program published 74 new titles, of which we are very proud. Two AMS books published in 2014 received noteworthy awards: *Hilbert's Fifth Problem and Related Topics* by Terence Tao received a prestigious American Publishers Award for Professional and Scholarly Excellence (PROSE Award) for the best book published in mathematics in 2014. *Really Big Numbers*, by Richard E. Schwartz, the Society's first book for children ("of all ages"), received an



inaugural Mathical: Books for Kids from Tots to Teens award for books published in 2014.

A behind-the-scenes, high-priority mission of the AMS is to continue the advancement of technology for the electronic distribution of mathematical content. The AMS partners with about twenty other organizations in the development of MathJax™. The AMS and the Society for Industrial and Applied Mathematics (SIAM) are the two leading partners for the MathJax™ Consortium. MathJax™ has had a revolutionary impact in enabling the high quality web rendering of MathML and mathematics authored in LaTeX, in all standard browsers. In 2014, the key developers of MathJax™ received funding from the Sloan Foundation to develop capabilities using MathJax™ for embedding semantic markup of mathematical content and for developing capabilities of *handicap accessibility* of mathematics on the web, such as text-to-speech processing. This is just one part of the technology development being done by the Publishing Technology Group in the Computer Services Division and by the Publishing Division.

There were major developments for publishing of the AMS research journals as well in 2014. I believe that a professional society such as the AMS has incentives that are perfectly aligned with the communities that our publications serve—the libraries who are our customers and the mathematical scientists who are both our authors and our consumers. We can deliver the highest quality publications at the lowest possible cost. The logical implication for the AMS is that we should strive to publish more of the high-quality research content that is being created.

In 2014, the AMS launched two new open access research journals, *Proceedings of the AMS, Series B* and *Transactions of the AMS, Series B*, companion journals to the primary AMS journals *Proceedings* and *Transactions*. The new journals offer the open access option for authors who wish to publish their work in the "gold" open-access model. We also made substantial increases in the pages published annually in the primary subscription journals *Proceedings, Transactions, Mathematics of Computation*, and *Memoirs*.

Advocacy, Partnerships for Mathematics and Science, and Public Awareness

The AMS Public Awareness Office and the Washington, DC Office, as well as many in the profession, are key in promoting awareness of news and information about mathematics and mathematicians—to our own community as well as to scientists in other fields, students, decision-makers, the media, and the broader public.

The Washington Office leads or oversees a number of activities in advocacy for the mathematical sciences and public policy in support of science. These activities include an annual Congressional Briefing, leadership of the Coalition for National Science Funding (CNSF), staff liaison for the AMS policy committees on Education and Science Policy, recruitment and selection of the AMS Congressional Fellow and the AMS Mass Media Fellow, and a variety of advocacy initiatives.

CNSF is an alliance of over 140 professional societies, research institutes, higher education institutions, and businesses that works to increase the national investment in the National Science Foundation's research and education programs. The coalition organizes a reception and exhibition each year for members of congress and congressional staffers. Over 280 attendees came to the May 2014 event on Capitol Hill, where Robert Ghrist (University of Pennsylvania) represented the AMS and presented his work on "Topological Sensor Networks."

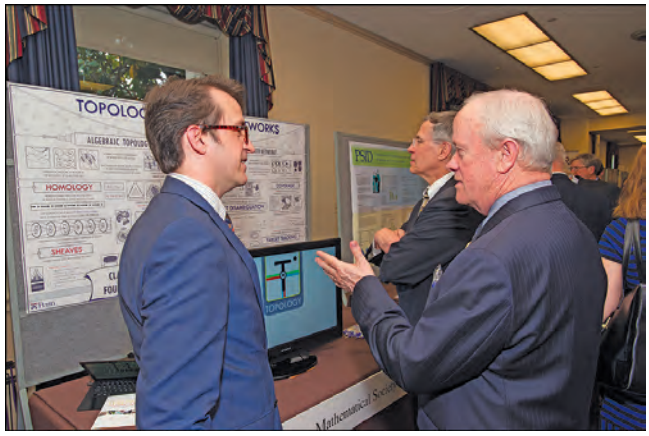


Photo courtesy of Scavone Photography.

Robert Ghrist (L) with US Representatives Jerry McNerney (R) (CA-09) and Rush Holt (back R) (NJ-12).

For several years, the Committee on Science Policy has combined its annual spring meeting in Washington with "visits to the hill." In March 2014, committee members visited the offices of twenty-nine senators and representatives to have conversations about the state of science funding and to ask for support of budget increases proposed for NSF in FY2015. Such visits are important; at the time of the visits, the NSF was being subjected to unprecedented scrutiny by the House Committee on Science, Space, and Technology.

The Public Awareness Office (PAO) provides leadership and support for activities that communicate with the general public and with select constituencies about the importance of mathematics. In 2014, the AMS worked to motivate mathematical scientists to become more proactive in communicating with the public. At JMM 2014, a forum on *The Public Face of Mathematics* was organized jointly by the committees on Education and Science Policy. Moderated by Arthur Benjamin, the panelists included Keith Devlin (Stanford University), Jerry McNerney (US House of Representatives), Cathy O'Neil (Johnson Research Labs), Tom Siegfried (Freelance Science Journalist), and Steven Strogatz (Cornell University). The forum motivated more members of the mathematical sciences community to take initiatives in representing mathematics to the general public and to key audiences of leaders in discussions of public policy.

Strategic Planning

At the May 2013 meeting of the Executive Committee and Board of Trustees, the ECBT approved of the President appointing a committee to oversee the strategic planning for the AMS. President Vogan appointed a Strategic Planning Oversight Committee (referred to as SPOCK) including Ralph Cohen (EC member), Mark Green (BT Chair), Donald McClure (Executive Director), Emily Riley (CFO), Carla

Savage (Secretary), and David Vogan (President). The committee was later expanded by adding William Jaco (2014 BT Chair) and Robert Bryant (2015–2016 President). Also, Ronald Solomon (Chair, Mathematical Reviews Editorial Committee) was added for the part of strategic planning focused on MathSciNet®.

The strategic planning has been done in three parts. The first part focuses on the AMS as a membership organization: membership, professional services, and the Washington Office. The second part concerns the AMS publishing of journals and books, plus the AMS web presence. The third part focuses on MathSciNet®.

At the end of 2014, the first two parts were on track to start finalizing plans in mid-2015 and the planning for MathSciNet® had an ambitious schedule to finish in the fall of 2015.

The planning for membership, professional services, and Washington activities engaged the services of a consulting firm McKinley Advisors from Washington, DC. The Society and McKinley had designed a survey of the mathematics community to be carried out right after JMM 2015. The objective of the survey was to assess and quantify the perceptions, needs, and expectations of AMS members and the mathematics community to inform the strategic planning process.

I will close with some of the key findings of the survey.

Top Professional Challenges

90 percent of the respondents work in academia and 10 percent work in a nonacademic setting.

Among the respondents in academia, the three top challenges are:

- Making progress in my research (cited by 45 percent)
- Balancing teaching and research (cited by 36 percent)
- Obtaining grants/funding (cited by 35 percent)

Among the respondents working in a nonacademic setting, the three top challenges are:

- Staying up-to-date on news and trends in the field (cited by 45 percent)
- Making progress in my research (cited by 33 percent)
- Progressing in my career (cited by 26 percent)

Not surprisingly, the top three challenges vary with the years of professional experience. Among the respondents with one to five years of experience, the three top challenges are:

- Getting a job (cited by 52 percent)
- Making progress in my research (cited by 46 percent)
- Progressing in my career (cited by 32 percent)

Among the respondents with twenty or more years of experience, the three top challenges are:

- Making progress in my research (cited by 45 percent)
- Balancing teaching and research (cited by 33 percent)
- Obtaining grants/funding (cited by 33 percent)

Future Priorities

The respondents were also asked to categorize the relative importance of eleven different activities for the AMS. Three categories of priority were possible:

1. Among the most important priorities
2. Somewhat of an important priority
3. Not an important priority

The activities were then ordered by the proportion of responses categorizing that objective as "among the most important."

The four top-ranked activities were:

1. Support and encourage young mathematicians and individuals pursuing undergraduate/graduate degrees in mathematics.
2. Increase advocacy efforts on key issues, such as support for basic research.
3. Promote awareness and appreciation of the importance of mathematics among the public.
4. Create programs to promote and foster diversity in the mathematics profession.

—Donald McClure
Executive Director

26 The Blumenthal Trust Award

The award is presented to the individual deemed to have made the most substantial contribution in research in the field of pure mathematics, and who is deemed to have the potential for future production of distinguished research in such field.

26.1 Information

The Leonard M. and Eleanor B. Blumenthal Trust for the Advancement of Mathematics was created for the purpose of assisting the Department of Mathematics of the University of Missouri at Columbia, where Leonard Blumenthal served as professor for many years. Its second purpose is to recognize distinguished achievements in the field of mathematics through the Leonard M. and Eleanor B. Blumenthal Award for the Advancement of Research in Pure Mathematics, which was originally funded from the Eleanor B. Blumenthal Trust (dated September 24, 1984) upon Mrs. Blumenthal's death on July 12, 1987.

1. Awarded every four years. Some relevant information taken from the trust:

2. Award is approximately $20,000.

3. Each Grantee shall be selected by a committee of award. The Committee shall consist of five members, each of whom has made notable contributions to the field of Pure Mathematics. The members of each Committee shall serve for a term of four years. The Committee is to be formed by advising the Chairperson of the Mathematics Department of Harvard University; the University of California, Berkeley; the University of Chicago; Yale University; and the Director of the Institute for Advanced Study, Princeton, of the existence of this Trust and of the Award, and by sending each of them a copy of the THIRD paragraph of the Trust. Each chairperson is to appoint a member of his or her staff who satisfies the requirements expressed above. If any of the above are unwilling to participate, in selecting a member of the Committee, then the Trustee shall select a Chairperson of a Department of Mathematics in a distinguished American Educational Institution who shall select, as a member of the Committee, an individual on his or her staff who fulfills the requirements. Among the distinguished institutions from which the Trustee might select individuals to select a Committee member, are Brandeis University, University of Michigan, UCLA, and University of Texas at Austin.

In making its selection of the Grantee, the Committee shall observe the following conditions:

- The Award shall not be awarded to any member of the Committee.

- The Award shall not be awarded posthumously.

- The Committee shall examine the literature in the field of Mathematics in order to determine recipients of the Award, and must restrict its attention to work published

no earlier than eight years, and no later than one year before the date on which the Award is to be presented.

- The Committee must take into consideration the potential of a candidate for the Award for future production of distinguished research in Pure Mathematics.

- The race, sex, religion, nationality, nation of residence or domicile, national origin, age, political view or financial resources or means of candidates for the Award are completely irrelevant and must be disregarded and must play no role in selecting a Grantee, but the Award must not be granted twice to the same individual.

- The Award shall be presented to the individual deemed by the Committee to have made the most substantial contribution in research in the field of Pure Mathematics, and who is deemed by the Committee to have potential for future production of distinguished research in such field. item The agreement of any four members of the Committee is required to select a recipient. If no such agreement is reached within the four year term of the Committee, it shall be discharged and a new Committee shall be selected.

- The Committee must award the Award on the basis of intrinsic, rather than relative distinction, of the recipient's contribution.

- It is expected that communications between members of the Committee will be carried on mostly by correspondence, and by telephone, and during those times they might encounter one another at various meetings. It is required that the Committee hold at least one meeting with at least four members present.

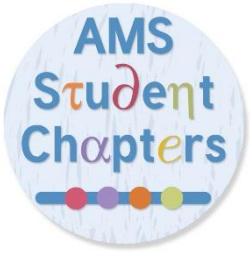
- The names of the members of the Committee are to be made public before the Award is presented.

The selection committee has placed heavy emphasis on the contributions made in the individual's Ph.D. thesis.

26.1.1 Presentation of Award

The Award be presented at the International Congress of Mathematicians, if feasible. If not, then an officer of the American Mathematical Society shall present the award at an annual meeting of the Society.

The Grantee, unless prevented from doing so by a medically certifiable illness, must receive the Award, in person, and shall be required to address the convocation or meeting called for formal presentation of the Award on the researches that motivated his or her selection, and during each of the following three years shall be required to present his or her current researches to an Academy or Mathematical Society during at least one meeting.



AMS Graduate Student Chapters

There are 37 Student Chapters as of October 2015:

- Arizona State University*
- Baylor University*
- Boston College
- Boston University
- Brown University
- Bryn Mawr College
- California State University, San Marcos
- Central Michigan University
- Clemson University
- Georgia Institute of Technology
- Georgia State University
- Indiana University-Purdue University Indianapolis
- North Carolina State University
- Oklahoma State University
- Purdue University
- Rutgers University
- SUNY New Paltz
- Syracuse University
- Texas A&M University
- Tufts University
- University at Albany
- University of British Columbia
- University of Calgary*
- University of California, Riverside
- University of Georgia
- University of Houston
- University of Kansas
- University of Maryland, College Park*
- University of Minnesota
- University of Mississippi
- University of Missouri-Columbia*
- University of Missouri-Kansas City
- University of Nebraska-Lincoln
- University of Wisconsin-Madison
- Utah State University
- Wesleyan University
- Western Kentucky University

An asterisk (*) denotes chapters that have been approved since May 2015.

Pending Approval:

- University of New Orleans
- Williams College
- Kansas State University

Plans for JMM 2016:

AED Christine Stevens and the membership staff are planning to hold a Meet and Greet Luncheon for the Chapters at JMM 2016. This will give students the opportunity to mingle and potentially collaborate on future activities. There will be a short survey for students to fill out in order to enter a raffle for AMS prizes. This survey will help get a better understanding of how the AMS can further support and strengthen its relationship with the Chapters.

Chapter activities:

Annual reports from chapters, submitted in Summer 2015, revealed a wide range of activities. Here is a sample:

University of Kansas
Each year for Math Awareness Month, the KU math departments hosts a math competition and "workshops" for elementary school students. The 2015 workshops were held on April 15 and April 22. These workshops bring in local elementary school classes to participate in fun, interactive activities designed to encourage mathematical thinking. Graduate student volunteers assist with the competition and are at the core of the workshops, designing and implementing the activities and interacting with the elementary school students.

Library - The graduate student chapter is also in the process of building a library of books that are seminal to popular areas of study or will be helpful in studying for our Ph.D. qualifying exams. Some of our books are inherited, while others have been purchased using AMS funds.

Georgia Institute of Technology
The AMS Student Chapter initiated an outreach program designed to encourage undergraduate women and minorities to consider advanced degrees in mathematics. During the Fall 2014 semester, the Chapter President wrote a grant proposal for the Provost's Fund for Excellence in Graduate Studies (PEGS grant). The grant was approved in January. The first outreach visit was April 20, 2015. Two members of the Student Chapter and one member of the faculty visited Spelman College and made a presentation on "Careers in Mathematics" and "How to Apply to Graduate School." The presentation was attended by thirteen Spelman students and two members of the Spelman College Math Department.

University of Minnesota
Weekly Seminars - (Nearly) every Wednesday the chapter hosts one of the following seminars over the noon hour.

- Introduction to Research Seminar - This seminar is geared towards helping match first- and second-year students with professors who are looking for students. Each seminar features a talk from a different mathematics professor. The talk is meant to be non-technical with the goal of introducing the students to the professor's area of research.
- Junior colloquium - Graduate students are invited to give math talks, about their research or any other topic that interests them. The seminar is intended to give

students a chance to practice giving talks, and also give other graduate students a chance to see what sort of research is happening in the department.

- Seminar in Undergraduate Mathematics Education - A representative of the center for educational innovation talks to current graduate students about best practices in teaching, mid-semester feedback, and conducting peer observations.

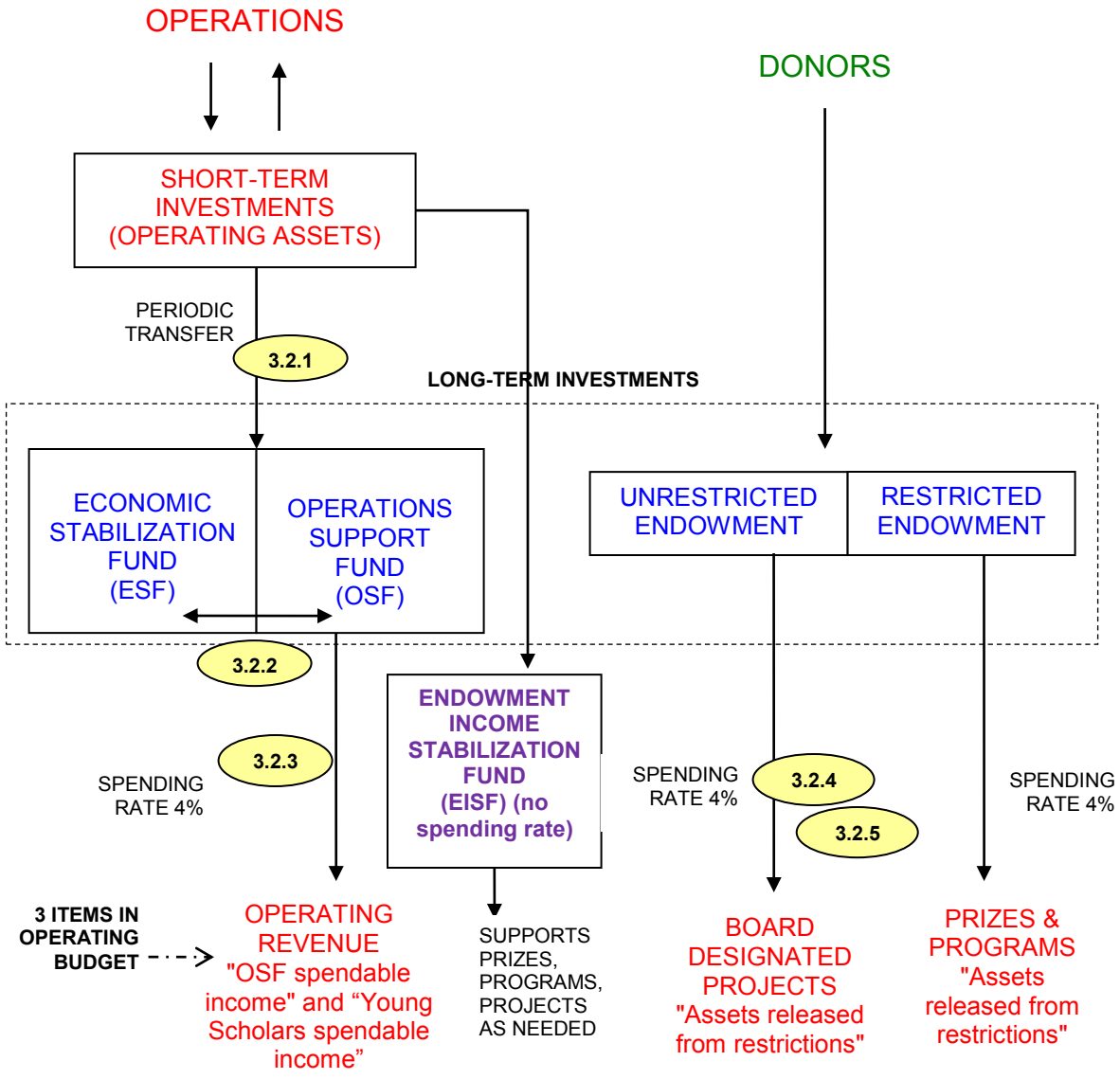
Purdue University

University of Missouri – Kansas City

Diane Boumenot, Director of Membership and Programs
October 2015

AMS Long-term Investments
Cliffs Notes

(*For details, see section D of Fiscal Reports*)



ESF = 75% annual operating expenses + unfunded medical liability (APBO) + Flood self-Insurance ($1,700,000 in 2014)

OSF = remainder of quasi-endowment (spending on 3-yr rolling average) Rebalanced annually, December 31

EISF = Created 12/31/12 from amounts the Long Term Portfolio owed to Operations. The fund supplements prizes, programs, board designated projects when endowment funds from 4% spending rate are not adequate. Invested in an intermediate term investment.

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:	*12/31/14*	*12/31/13*
ESF	$ 29.4 M	$25.8 M
OSF	78.4 M	72.2 M
EISF	.5 M	.5 M
Unrestricted	7.9 M	7.4 M
Restricted	6.8 M	6.1 M

American Mathematical Society
History of Net Operating Income & Undesignated Unrestricted Net Assets
2009 - 2015

Year	OSF Spendable Income	Net Operating Income (in 000's) A	Other Items affecting Undesignated Unrestricted Net Assets* B	Owed to Operations at Year End & Moved to LT Investments C	Transfers from/to Operations to the LT Portfolio D	Undesignated Unrestricted Net Assets** (Prior Year Balance + A + B + C + D)
Beginning Bal 2008						$ 5,402
2009	$ 1,400	$ 2,770	$ (115)	$ (1,751)	$ (2,000)	4,306
2010	1,451	1,809	(96)	(1,873)		4,146
2011	1,645	2,702	(1,151)	(1,958)	(2,000)	1,739
2012	1,744	2,456	145	(2,080)		2,260
2013	1,438	1,214	(268)	(1,760)		1,446
2014	1,776	1,773	(1,288)	(1,931)		-
2015 Est.	2,048	598		(2,500)	1,902	-

*These other items include changes in the Accrued Post-Retirement Benefit Obligation, changes in paid personal leave accrual policies, loans to endowment funds, and other items.

**The undesignated, unrestricted net assets are now zero. This means that the AMS can no long transfer amounts owed to operations from the endowment and board designated funds to the Operating Support Fund (OSF) at year end unless there is a net operating income larger than the amount owed to operations. The amount owed to operations is the spendable income provided to operations throughout the year less endowment donations received in operations. Board designated funds, such as the OSF, originate from undesignated, unrestricted net assets.

Traditionally, operations has not received funds from the long-term portfolio, but they have remained there and have been added to the OSF. At the end of 2015, the CFO is recommending that the amount due operations from the long-term investment portfolio at 12/31/15 be first used to fulfill any obligation to maintain the value of the true endowment funds at their original gift amount, if possible. If this is not possible, part of the OSF will be used to fulfill that obligation. If operations needs the funds, some or all or amounts due operations from the long-term investment portfolio at 12/31/15 will be liquidated from the long-term portfolio and provided to operations.

Emily Riley
Chief Financial Officer
September 3, 2015

Appropriated Spendable Income

This version of the plan allocates $262,000 of the total available funding of $262,560. We encourage the Board to make suggestions as well for alternative allocations.

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

Here are brief descriptions of the projects for 2016 appropriations.

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

The selection and induction of new Fellows are expected to incur total expenses of approximately $40,000 in 2016. The budgeting of some revenue from unrestricted endowment will offset part of the recurrent expenses.

AMS Congressional Fellow ($90,000)

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.

Mathematics Research Communities ($10,000)

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. Two specific items that the 2016 funding will help support 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. In addition to this appropriation from spendable income from unrestricted endowment, we will provide $10,000 from accrued spendable income from the Beal Prize.

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 ($35,000)

During its start-up year, 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.

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 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 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)

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 MCA2017.

The recommendations above total $262,000. In addition, we plan to use $10,000 of unused funds to make Epsilon grants in 2016 above and beyond the spendable income generated from unrestricted endowment and Board designated funds. The $10,000 was budgeted in 2013 for a math camp workshop held at AIM and it was not needed when other funding sources became available.

Don McClure, Executive Director
Emily Riley, Chief Financial Officer
November 5, 2015

BOARD OF TRUSTEES
STANDING COMMITTEES

AGENDA AND BUDGET COMMITTEE

(as of February 1, 2016)
Robert Bryant, Chair (ex officio - President)
Jane Hawkins (ex officio - Treasurer)
Zbigniew Nitecki (ex officio - Associate Treasurer)
Carla Savage (ex officio - Secretary)
Karen Vogtmann (ex officio - Chair of BT)

AUDIT COMMITTEE

(as of February 1, 2016)
Jane Hawkins, Chair (ex officio - Treasurer)
Robert Lazarsfeld (ex officio – third-year Trustee/incoming Chair of BT)
Zbigniew Nitecki (ex officio – Associate Treasurer)
Karen Vogtmann (ex officio - Chair of BT)

INVESTMENT COMMITTEE

(as of February 1, 2016)
Jane Hawkins, Chair (ex officio - Treasurer)
Ruth Charney (February 1, 2016 - January 31, 2017)
Zbigniew Nitecki (ex officio - Associate Treasurer)
open position (February 1, 2016 - January 31, 2019)

LIAISON COMMITTEE

(NOT A BT COMMITTEE, BUT LISTED HERE FOR CONVENIENCE)
(as of February 1, 2016)
Robert Bryant, Chair (ex officio - President)
Jane Hawkins (ex officio - Treasurer)
Carla Savage (ex officio - Secretary)
Karen Vogtmann (ex officio - Chair of BT)

RETIREMENT PLAN INVESTMENT COMMITTEE

(*as of February 1, 2016)*
Tammy Walsh, Chair (ex officio – Director of Human Resources)
Ruth Charney (ex officio – fifth-year Trustee)
Zbigniew Nitecki (ex officio – Associate Treasurer)
Emily Riley (ex officio – Chief Financial Officer)

SALARY COMMITTEE

(as of February 1, 2016)
Jane Hawkins, Chair (ex officio - Treasurer)
Zbigniew Nitecki (ex officio - Associate Treasurer)
Karen Vogtmann (ex officio - Chair of BT)

EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES
STANDING COMMITTEES

DEVELOPMENT COMMITTEE
(as of February 1, 2016)
Ruth Charney, Chair (ex officio – fifth-year Trustee)
Robert Bryant (ex officio - President)
Jane Hawkins (ex officio - Treasurer)
Donald McClure (ex officio - Executive Director)
Carla Savage (ex officio - Secretary)
Karen Vogtmann (ex officio - Chair of BT)

LONG RANGE PLANNING COMMITTEE
(as of February 1, 2016)
Robert Bryant, Chair (ex officio - President)
Jesús De Loera (ex officio - second-year member of EC)
Jane Hawkins (ex officio - Treasurer)
Robert Lazarsfeld (ex officio – third-year Trustee/incoming Chair of BT)
Donald McClure (ex officio - Executive Director)
Kenneth Ribet (ex officio - third-year member of EC)
Carla Savage (ex officio - Secretary)
Karen Vogtmann (ex officio - Chair of BT)

ECBT NOMINATING COMMITTEE
(as of February 1, 2016)
Robert Lazarsfeld, Chair (ex officio - third-year member of BT)
Douglas Arnold (ex officio – Chair of Council Nominating Committee)
Kenneth Ribet (ex officio - third-year member of EC)
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 2016
(February 1, 2016 – January 31, 2017)[1]

COMMITTEE ON EDUCATION

Robert Lazarsfeld (third-year Trustee)

COMMITTEE ON MEETINGS AND CONFERENCES

Joseph Silverman (second-year Trustee)

COMMITTEE ON THE PROFESSION

Katz or Kra (first-year Trustee)

COMMITTEE ON PUBLICATIONS

Karen Vogtmann (fourth-year Trustee)

COMMITTEE ON SCIENCE POLICY

Ruth Charney (fifth-year Trustee)

[1] Each Trustee serves a five-year term and will spend one year on each of the five policy committees according to the following rotation: Profession, Meetings, Education, Publications, Science Policy.

TRUSTEE LIAISON ASSIGNMENTS TO DIVISIONS FOR 2016

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

American Mathematical Society
Minutes of Closed Board of Trustees Meetings

The Secretary of the Board is responsible for taking minutes at Trustees meetings when the staff recording secretary (usually the Executive Director's Assistant) is excused from the meeting (which is normally during *closed* executive sessions). Closed executive sessions take place at the regularly-scheduled semi-annual meetings of the Board and can occur at other times as well (e.g., exit interviews or meetings by technical means).

These are organized into three sections:

A. **Minutes for use by the Board, the Executive Director, the Chief Financial Officer, and the Director of Human Resources.** These are primarily a summary of outcomes to provide documentation in personnel and fiscal files as to authorized compensation and changes, if any, in the benefits provided to the Executive Director, as well as authorization of large expenses for the Society.
B. **Minutes for use by the Board and the Executive Director.** These include a summary of the Report of the Executive Director to the Board and any discussion between the Executive Director and the Board in closed session.
C. **Minutes for use by the Board only.** These are the minutes of the "deep-deep" closed session with the Executive Director not present. When the compensation of the Executive Director is being discussed, the Chief Financial Officer is present briefly to inform the Board about intermediate sanctions, but is otherwise absent.

Drafts of these minutes should be reviewed by the Chair of the Board, and when appropriate depending on the type, the Secretary of the Society and the Executive Director. The draft minutes should then be distributed to all members of the Board for review.

The Secretary of the Board provides two (2) copies of these minutes, one to the Executive Director and one to Secretary of the Society, each in three separate envelopes, marked "Confidential: for use by [appropriate list of people]." The part C minutes are stored, sealed, for possible future use. All minutes are available at all times to members of the Board as well as to the auditors. It is important that the part A minutes contain enough information to document the Board's approval of expenses that require Board approval, such as changes in the ED's compensation, or larger capital expenses.

These minutes will be officially approved at the next regularly-scheduled meeting of the Board.

The November 2003 Minutes of the Board note that:

> Closed Executive Session Minutes are confidential. Nonetheless they must be reasonably accessible to the Board and senior executive staff. All minutes are always available to the Board and to the auditors. The sealed minutes will include matters discussed during so-called "deep" closed sessions, as well as other items designated by the Board. All minutes shall be filed with the Executive Director and Secretary of the Society, with sealed minutes delivered in a sealed envelope marked "Sealed Minutes for [appropriate people]."

American Mathematical Society

Retrospective Self-Insurance Analysis

Data reflects September 1, 2013 through August 31, 2014

	Current Arrangement (FI Medical + HRA)	Self-Insured Arrangement
Fully-Insured Medical		
Premiums Paid	$1,066,866	$0
Subtotal - Fully-Insured Medical	*$1,066,866*	*$0*
HRA		
Administrative Fee	$6,851	$0
Paid Claims	$281,155	$0
Subtotal - HRA	*$288,006*	*$0*
Self-Insured Medical		
Administration (1)	$0	$87,048
Stop Loss Premium (2)	$0	$120,900
Medical Paid Claims	$0	$777,279
HRA Paid Claims	$0	$281,155
Specific Stop Loss Reimbursements (3)	$0	($55,581)
Additional Claim Reserve (4)	$0	$57,713
Subtotal - Self-Insured Medical	*$0*	*$1,268,515*
Taxes/Fees		
PCORI Fee	$269	$488
Reinsurance Fee	$0	$8,954
Subtotal - Taxes/Fees	*$269*	*$9,442*
Total		
Total Estimated Medical Plan Spend	***$1,355,141***	***$1,277,957***
-- Difference from Current Arrangement ($)		*($77,184)*
-- Difference from Current Arrangement (%)		*-5.7%*

Notes:

(1) Administration assumes $54.00 PEPM fee.

(2) Stop Loss Premium assumes $75.00 PEPM fee.

(3) Specific Stop Loss Reimbursements based on large claim report plus $3000 per member for HRA inclusion.

(4) Additional Claim Reserve would apply for the MR population who came onto the plan 3/1. Assumes 62 covered employees at $7,757 PEPY times 12% reserve factor.

Information provided by USI
Tammy King Walsh
Director of Human Resources
10/26/2015

American Mathematical Society

Retrospective Self-Insurance Analysis

Data reflects September 1, 2014 through August 31, 2015

	Current Arrangement (FI Medical + HRA)	Self-Insured Arrangement
Fully-Insured Medical		
Premiums Paid	$1,439,516	$0
Subtotal - Fully-Insured Medical	*$1,439,516*	*$0*
HRA		
Administrative Fee	$8,424	$0
Paid Claims	$374,970	$0
Subtotal - HRA	*$383,394*	*$0*
Self-Insured Medical		
Administration (1)	$0	$107,028
Stop Loss Premium (2)	$0	$169,719
Medical Paid Claims	$0	$1,288,028
HRA Paid Claims	$0	$374,970
Specific Stop Loss Reimbursements (3)	$0	($9,710)
Subtotal - Self-Insured Medical	*$0*	*$1,930,035*
Taxes/Fees		
PCORI Fee	$330	$608
Reinsurance Fee	$0	$15,796
Subtotal - Taxes/Fees	*$330*	*$16,404*
Total		
Total Estimated Medical Plan Spend	***$1,823,240***	***$1,946,439***
-- Difference from Current Arrangement ($)		*$123,199*
-- Difference from Current Arrangement (%)		*6.8%*

Notes:
(1) Administration assumes $54.00 PEPM fee.
(2) Stop Loss Premium assumes $85.63 PEPM fee.
(3) Specific Stop Loss Reimbursements based on large claim report plus $3000 per member for HRA inclusion.

Information provided by USI
Tammy King Walsh
Director of Human Resources
10/26/2015

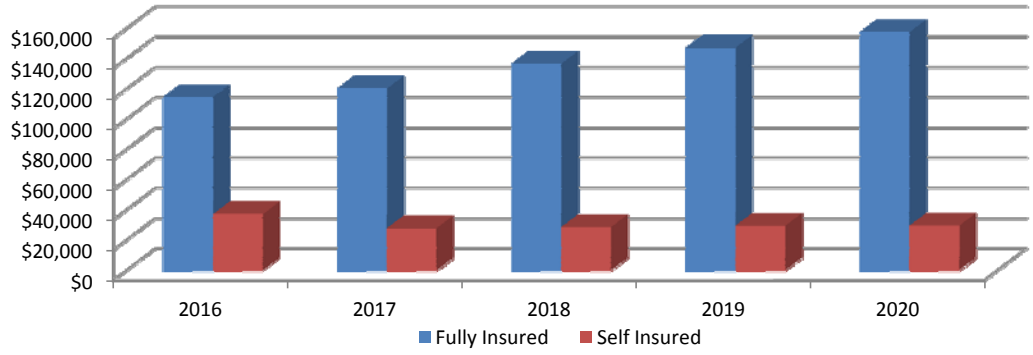
Self Insured vs. Fully Insured Cost Projection
Health Reform Fees & State Taxes/Costs & Carrier Profit by Funding Type Per Year

Client Name: American Mathematical Society

	2016	2017	2018	2019	2020	5 Year Total
HEALTH CARE REFORM FEES						
Reinsurance Fee (2014 - 2016)						
Fully Insured	$10,314	$0	$0	$0	$0	**$10,314**
Self Insured	$10,314	$0	$0	$0	$0	**$10,314**
PCORI Research Fee (2012- 2019)						
*** Fully Insured	$1,174	$1,174	$1,174	$1,174	$0	**$4,696**
Self Insured	$829	$829	$829	$829	$0	**$3,316**
Insurer Fee - (Permanent)						
Fully Insured	$49,165	$61,964	$74,842	$81,578	$88,920	**$356,469**
Self Insured	$0	$0	$0	$0	$0	**$0**
All Health Reform Fees Combined						
Fully Insured	$60,653	$63,138	$76,016	$82,752	$88,920	**$371,479**
Self Insured	$11,143	$829	$829	$829	$0	**$13,630**

STATE PREMIUM TAX, BENEFIT MANDATE COSTS, CARRIER PROFIT						
State Premium Tax-RI (Permanent)						
Fully Insured	$30,728	$33,494	$36,508	$39,794	$43,376	**$183,900**
Self Insured	$3,073	$3,349	$3,651	$3,979	$4,338	**$18,390**
State Premium Tax-MI (Permanent)						
Fully Insured	$5,224	$5,694	$6,206	$6,765	$7,374	**$31,263**
Self Insured	$5,224	$5,694	$6,206	$6,765	$7,374	**$31,263**
RI Immunization Surcharge (Permanent)						
Fully Insured	$17,923	$17,923	$17,923	$17,923	$17,923	**$89,617**
Self Insured	$17,923	$17,923	$17,923	$17,923	$17,923	**$89,617**
All State Taxes/Costs Combined						
Fully Insured	$53,876	$57,111	$60,638	$64,483	$68,673	**$304,781**
Self Insured	$26,220	$26,967	$27,781	$28,668	$29,635	**$139,270**

TOAL COSTS: HEALTH CARE REFORM FEES + STATE TAXES/COSTS + CARRIER PROFIT						
Total						
Fully Insured	$114,529	$120,249	$136,654	$147,234	$157,593	**$676,259**
Self Insured	$37,363	$27,796	$28,610	$29,497	$29,635	**$152,900**
Self Insured Savings	**$77,166**	**$92,453**	**$108,045**	**$117,738**	**$127,958**	**$523,359**
% of Annual Spend	***5.02%***	***5.52%***	***5.92%***	***5.92%***	***5.90%***	



Assumptions:					
Employees	159	Plan Year	2015	Insurer Fee-2016	3.2%
Members	382	State Premium Tax	2.0%	Insurer Fee-2017	3.7%
HRA with FI plan?	Yes			Insurer Fee-2018+	4.1%
PEPY Cost	$8,865			Reinsurance Fee-2016	$2.25
Annual Spend	$1,409,557	Annual Medical Trend	9.0%	PCORI Fee-2016+	$2.17

-- Assumes stop loss premiums equal 10% of health care spend.
-- State Premium Tax-MI assumes 1% of claims for MI employees (estimated at 40% of group and 85% of premium attrubted to claims).
-- RI Immunization Surcharge is estimated at $7.82 PMPM for RI specific members (est. 50% of members reside in RI).
**** Due to having an HRA with a fully insured plan, you are required to pay a PCORI fee on all employees in addition to the fee paid by your carrier.*

USI INSURANCE SERVICES

Information provided by USI
Tammy King Walsh, Director of Human Resources, 10/27/2015

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, Associate Treasurer, and fifth year elected member of the Board of Trustees.
- Terms vary

Responsibility

The Committee's primary responsibility is choose and monitor plan funding options in a prudent manner insuring 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, 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 maintains a website with information relevant to the Investment Committee. Such information includes minutes, investment performance information, and other information relating to the Society's investments.

Authorization

May 2011 ECBT Minutes, Item 3.9; *update 12/7/11*

Regarding Retirement Plan Administration, the BT approved a recommendation from the

Executive Director to establish a Retirement Plan Investment Committee with the following members: Director of Human Resources (Chair), Chief Financial Officer, Associate Treasurer, and fifth year elected member of the BT.

November 2011 ECBT Minutes, Item 3C.3

BT approved charge for committee.

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 may have historical interest. Accordingly, the Council has requested that a central file system be maintained for the Society by the Secretary. Committees are reminded that copies 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 confidential manner.

Past Members

Year	Members
2011	John M. Franks, Emily Riley, Tammy King Walsh, Carol Wood
2012	Zbigniew Nitecki, Emily Riley, Karen Vogtmann, Tammy King Walsh
2013	Zbigniew Nitecki, Emily Riley, Ronald Stern, Tammy King Walsh
2014	Zbigniew Nitecki, Mark Green, Emily Riley, Tammy King Walsh
2015	William Jaco, Zbigniew Nitecki, Emily Riley, Tammy King Walsh

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

This document provides a summary report of the 2015 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 fifth year elected member of the AMS Board of Trustees. 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 2015 calendar year the following individuals served on the Committee: Tammy King Walsh (Chair), Emily Riley (elected Secretary), Zbigniew Nitecki and William Jaco.

The newest committee member received fiduciary training from The Angell Pension Group, the third-party administrator providing assistance with the administration of the Society's retirement plans. The Committee reviewed and finalized a Request for Proposal (RFP) for Retirement Plan Fiduciary and Investment Consulting Services. The RFP will be issued to potential providers in November. Responses will be reviewed with finalists selected in December. Finalist interviews will follow with selection before the end of January 2016.

Tammy King Walsh
Director of Human Resources and
Chair, AMS Retirement Plan Investment Committee
October 2015

American Mathematical Society
Committee on Education Meeting
October 29-31, 2015
Washington DC

Summary Report

The focus of the meeting was on preparing undergraduate students for the next steps. Presentations included a wide variety of perspectives, including an update on the MAA's study about students' progress through calculus, a discussion of proof comprehension in advanced mathematics, and an overview of the American Statistical Association's work on the Statistical Education of Teachers. Also covered were access to graduate programs, the role of internships in mathematical training, the transition from academia to industry, and increasing the participation of students from underrepresented groups.

Building bridges to broaden and deepen representation
Federico Ardila (San Francisco State University-SFSU) spoke to the group about the SFSU-Colombia Combinatorics Initiative, his online mathematics course for students at SFSU and the Universidad de Los Andes in Bogota, Colombia, as well as from the University of California-Berkeley. This program brings together a very diverse group of students to complete mathematical research projects and exchange ideas.

Ardila's initiative is funded through the SFSU research office and a NSF CAREER grant and is born out of his own educational experience in his native Colombia. The program utilizes technology to create videos of Ardila's classes at SFSU and broadcasts them to Los Andes. In this way, he is able to create a sense of community among these students who then collaborate to produce high level mathematical work. In addition, the funding has allowed him to take some SFSU students to Colombia to work alongside their peers, to attend conferences and collaborate on research.

Since Ardila launched the initiative seven years ago, it has reached 200 students – 60% Columbian undergraduates, 40% SFSU undergraduate and master's students (of which 30% are underrepresented minorities and 50% are women). The online resources are readily available including all videos, lecture notes, homework and projects

Lessons learned in building diversity
Ulrica Wilson (Morehouse College) spoke to the group about women and minorities' access to the mathematics profession. She spoke about problems with diversity in the mathematics community and her own experiences. She noted with particular interest the institutional factors, funding practices and market forces that create barriers.

Wilson talked specifically about the Enhancing Diversity in Graduate Education (EDGE) program for women pursuing careers in the mathematical sciences. This program, primarily funded by the National Science Foundation (NSF) in the past, is now also relying on a sponsorship program to help fund some critical components of the program.

The EDGE summer session is a four week residential program held each June that includes workshops and problem solving, formal mentoring, mini-courses, guest speakers and social activities. This summer program has been held at a number of different locations and typically supports students from liberal arts colleges, although not exclusively.

Wilson also mentioned the Research Experiences for Undergraduate Faculty (REUF) workshops, sponsored by the American Institute of Mathematics (AIM), ICERM and NSF.

Challenges and opportunities for graduate school bound liberal arts students
Cristina Ballantine (College of the Holy Cross) and Steven Miller (Williams College) talked about the difficulty that liberal arts students have experienced in being admitted to top graduate programs in pure mathematics over the last 10-15 years. They explained that these students are no less qualified than others applying to graduate schools and discussed some ways in which the mathematics community might help to address the issues creating barriers for these students.

Barriers to students' comprehension of proofs in mathematical lectures
Keith Weber (Rutgers University) presented research, mostly funded by the NSF, on how well aligned students learning was in comparison to what instructors were trying to convey. He reported on several case studies where presentation of a proof by the instructor versus note taking and learning by the students was examined.

Weber discussed the importance of note taking, but pointed out that it can be challenging for students to take effective notes for various reasons. Instructors felt that the most important aspects of their proof presentations were given orally, therefore, students who relied on what was written on the board in taking their notes were not able to recall the most important parts of the presentation.

Other important factors for students in understanding proofs include their differing beliefs about learning from proofs (i.e. what students think the role or function of a proof is and what they think their responsibilities are as they read a proof), and *colloquial* mathematics, or the expression of a technical mathematical idea using informal English to aid in student comprehension.

Weber summarized that although students did learn useful information, they did not generally recognize the points the instructor highlighted as essential to convey.

Industrial mathematics opportunities and career pathways for undergraduate and graduate students
Rachel Levy (Harvey Mudd College) spoke to the group about preparing math students for careers in business, industry and government (BIG Math). She reported on the increasing number of math PhDs being produced and how the insufficient number of tenure-track jobs now requires students to look outside academia for jobs.

Levy emphasized the importance of starting early in preparing students for BIG math careers and noted a number of programs and competitions in math modeling. She also discussed the skills required for a successful BIG math career and training opportunities outside of curriculum to prepare students for jobs in BIG math (i.e. internships, study groups, embedded research in labs and clinic programs).

She also discussed the importance of creating a network (faculty ambassadors, BIG partners, department chairs and graduate directors etc.) to prepare students for BIG Math jobs and offered other ways in which the mathematics community can help in this endeavor.

Preparing math students for careers in industry: perspective from a career changer
Paul Koester (Allstate) began his presentation by providing information about his own career history and how he became a data scientist at Allstate insurance. He explained the term 'data scientist' and talked about the work he and his peers engage in and what their backgrounds are. He also discussed the challenges in adapting to work in industry, particularly for mathematicians.

Koester went on to talk about preparing students for jobs in industry and emphasized the communication and problem solving skills necessary to be successful. He suggested that improving these 'soft' skills could be done directly in math courses in a way that strengthens the current curriculum.

Update on the MAA's studies of calculus
David Bressoud (Macalester College) presented an update on the Mathematical Association of America's (MAA) studies of calculus. He spoke specifically about two large studies the MAA has been conducting on the study of calculus – *Characteristics of Successful Programs in College Calculus* (a five year NSF/EHR-DRL grant with two one year extensions, wrapping up next summer) and *Progress through Calculus* (just beginning).

He presented a summary of some of the data from the *Characteristics of Successful Programs in College Calculus* study, including grades; career goals; gender differences; student attitudes, confidence, enjoyment, and desire to continue; and, case studies of institutions with 'successful' Calculus I programs. Information on this study has been published by the MAA in a notes volume entitled "Insights and Recommendations from the MAA National Study of College Calculus," which was mailed to department chairs this week and available on the MAA website at www.maa.org/cspcc

His presentation on the *Progress through Calculus* study summarized the focus of this second study that began in January 2015, including the types of departments to be included, the Pre-Calculus through Calculus II sequence, multiple outcome measures and a focus on networking and observing departments that are reforming one or more courses in this sequence. Next stages in this study include a workshop immediately following this AMS COE meeting and a conference in St. Paul, MN in June 2016.

ASA education and outreach programs
Donna LaLonde (American Statistical Association) began her presentation by explaining that the American Statistical Association (ASA) has identified *education* as a strategic goal for their organization and identified four areas of focus to impact this goal: curriculum guidelines development; advocacy and dissemination; professional learning for K-16 teachers, statisticians, and journalists; and, student engagement in the practice of statistics. She went on to discuss these initiatives in more detail.

She spoke in more detail about curriculum guidelines development and mentioned several reports endorsed by ASA – *Curriculum Guidelines for Undergraduate Programs in Statistical Science* (2014), *Guidelines for Assessment and Instruction in Statistics Education* (GAISE) PreK-12 Report and College Report, and *Statistical Education of Teachers* (SET). She also spoke about programs and resources focused on professional learning and student engagement.

NSF and undergraduate mathematics education
Jim Lewis (National Science Foundation) began his presentation by discussing the current national and federal interest in improving STEM education. There have been a number of reports on this subject and efforts to broaden participation in prioritizing STEM. It is recognized that mathematics is essential in the preparation of the STEM workforce.

He summarized the STEM goals of the NSF Directorate for Education and Human Resources (EHR), including: 1) the preparation of the next generation of STEM professionals and attracting/retaining more Americans to STEM careers; 2) the development of a robust research community that can conduct rigorous research and evaluation to support excellence in STEM education; 3) increasing the technological, scientific and quantitative literacy of all Americans; and 4) broadening participation and closing achievement gaps in all STEM fields.

Lewis presented some statistics on NSF-EHR funding and key areas of opportunity for impacting the improvement of STEM education, including active learning strategies. He also discussed proposal pressure for funding dollars and briefly presented some tips on submitting a successful grant proposal, mentioning the free grant proposal writing session held by the AMS and NSF prior to the start of the Joint Mathematics Meetings each year.

General Discussion
The meeting was organized purposefully to allow discussion on topics of general concern and interest. These discussions resulted in conversations related to providing research experiences for students, redesigning first year mathematics programs, the importance of supporting and rewarding instructors, and providing information and resources on how to improve student learning.

Submitted by Anita Benjamin
Assistant Director, Washington Office
November 12, 2015