

**AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
MAY 11-12, 2018
MINUTES
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**AMERICAN MATHEMATICAL SOCIETY
EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES MEETING
MAY 11-12, 2018**

MINUTES

A joint meeting of the Executive Committee of the Council (EC) and the Board of Trustees (BT) was held Friday and Saturday, May 11-12, 2018 in Providence, Rhode Island. The Friday-afternoon and Saturday-morning sessions took place at the Providence Marriott Downtown Hotel; the Saturday-afternoon session took place at the AMS Headquarters.

The following members of the EC were present: Alejandro Adem, Henry L. Cohn, Jill C. Pipher, Kenneth A. Ribet, Carla D. Savage, and Ravi Vakil. Jesús A. De Loera was present via web conference for some portions of the meeting. It is noted for the record that a quorum (four members) was present.

The following members of the BT were present: Ralph L. Cohen, Jane M. Hawkins, Bryna Kra, Robert K. Lazarsfeld, Zbigniew H. Nitecki, Kenneth A. Ribet, and Joseph H. Silverman. Judy L. Walker was unable to attend. It is noted for the record that a quorum (six members) was present.

Also present were the following AMS staff members: Thomas J. Blythe (Chief Information Officer), Edward G. Dunne (Executive Editor, Mathematical Reviews), Sergei Gelfand (Publisher), Robert M. Harington (Associate Executive Director for Publishing), Vanessa M. Goncalves (Administrative Assistant, Executive Director Department [and recording secretary for this meeting]), Robin Marek (Director of Development), Emily D. Riley (Chief Financial Officer and Associate Executive Director for Finance and Administration), Catherine A. Roberts (Executive Director), Karen Saxe (Associate Executive Director for Government Relations), and T. Christine Stevens (Associate Executive Director for Meetings and Professional Services).

President Kenneth A. Ribet presided over the EC and ECBT portions of the meeting (items beginning with 0, 1, or 2). Board Chair Joseph H. Silverman presided over the BT portion of the meeting (items beginning with 3), with the exception of Item 3.9.

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

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

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

0.2 **Housekeeping Matters.**

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

1I	EXECUTIVE COMMITTEE INFORMATION ITEMS
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1I.1 **Colloquium Lecturer.**

The Executive Committee (EC) supported the recommendation of the Colloquium Lecturer Committee to invite Benedict H. Gross (University of California, San Diego) to deliver the Colloquium Lectures at the 2019 Annual Meeting in Baltimore. Gross has accepted the invitation.

1I.2 **Gibbs Lecturer.**

The EC supported the Gibbs Lecturer Committee in its selection of Alan Perelson (Los Alamos National Laboratory) to deliver the Gibbs Lecture at the 2019 Annual Meeting. Perelson has accepted the invitation.

1I.3 **Secretariat Business by Mail. Att. #1.**

Minutes of Secretariat business by mail during the months November 2017 – April 2018 are attached (**#1**).

2	EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES ACTION/DISCUSSION ITEMS
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2.1 **Report from the AMS Council.**

The Council met on January 9, 2018 in San Diego, California and April 28, 2018 in Chicago, IL. Minutes of these meetings are available here: www.ams.org/council-minutes.

2.1.1 Report on Committee on Science Policy (CSP).

The ECBT received the following report on the April 10-11, 2018 CSP meeting from Karen Saxe, Associate Executive Director for Government Relations:

- Scott Wolpert (University of Maryland) is Chair of the Committee in 2018.
- The AMS National Policy Statement on public policy priorities was distributed for the Committee's review. Since the statement was written in the early 1990s, the Committee decided it should be reviewed and revised. The Committee voted to conduct a comprehensive review and draft a new statement to be sent to the AMS Council for action. A subcommittee was formed to take on this important task.
- The highlights of a report on contingent faculty recently published by the Government Accountability Office (GAO) was distributed for the Committee's review. The AMS has been asked to provide input on the report since mathematics is a large user of contingent faculty. There was much discussion about how and which AMS policy committee would be best to respond to this request. The Committee voted for CSP not to take up this request directly, but rather to lend assistance to the Committee on the Profession, who was thought to be the appropriate policy committee to handle it.
- CSP has a standing timeslot for a session at the Joint Mathematics Meeting each year. Ideas on the subject for the 2019 CSP session at the Baltimore meeting were discussed. A subcommittee was formed to work on this.
- Although the Committee was set to review the AMS Congressional Fellowship last year, this did not happen. The Committee will take up this task in the next year and a subcommittee was formed to do it.
- Further details regarding the April 2018 CSP meeting are available on the Committee's web page: www.ams.org/about-us/governance/committees/csp-home.

2.1.2 Report on Committee on Education (COE).

The ECBT was informed as follows by Karen Saxe, Associate Executive Director for Government Relations:

- Ravi Vakil (Stanford University) is the 2018 COE Chair.
- The next COE meeting is October 11-13, 2018 in Washington, DC.
- COE organized a panel discussion for the 2018 Joint Mathematics Meetings in San Diego. "Preparing mathematics students for non-academic careers" discussed how to prepare undergraduate, masters, and PhD students in Mathematics for a broad range of careers outside of academia. Erica Flapan (Pomona College) moderated the panel that included Andrew Bernioff (Harvey Mudd College), Johanna Hennig (Center for Communications Research at Institute for Defense Analysis), Srikrishna Rupanagunta (Mu Sigma), and Lee Zia (Division of Undergraduate Education at NSF).

- A report on the 2017 COE meeting can be found on the Committee's web page: www.ams.org/about-us/governance/committees/coe-home.

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

The ECBT received the following report on the March 24, 2018 COMC meeting from T. Christine Stevens, Associate Executive Director for Meetings and Professional Services:

- The 2018 COMC Chair is Rebecca Garcia (Sam Houston State University).
- COMC took the following actions:
 - Recommended that the Council ask staff to develop a plan for child care grants at sectional meetings
 - Recommended to the Council that an individual be allowed to give no more than one AMS Special Session talk at the Joint Mathematics Meetings (JMM) in a given year
 - Created a subcommittee to explore the possibility of establishing joint invited addresses at JMM with the National Association of Mathematicians and other organizations
 - Voted to send to the von Neumann Symposium Selection Committee a copy of COMC's review of the Symposium
 - Reaffirmed its statement from the 2017 COMC meeting that the AMS should not organize another Summer Research Institute in algebraic geometry
 - Voted to encourage the staff to enhance the current Mathematics Calendar
 - Chose the overall AMS program at JMM as the topic for the next annual review
 - Recommended to the Council that the AMS create an annual JMM invited address to honor Maryam Mirzakhani, to be implemented by naming and publicizing one of the current five AMS Invited Addresses at the JMM as "The Maryam Mirzakhani Lecture"
 - Agreed to hold the next COMC meeting at the Chicago O'Hare Airport Hilton on March 9, 2019

2.1.4 Report on Committee on the Profession (CoProf).

The ECBT was informed as follows by T. Christine Stevens, Associate Executive Director for Meetings and Professional Services:

- The last CoProf meeting was held on October 14-15, 2017.
- CoProf's 2017 annual report can be found on the Committee's web page: www.ams.org/about-us/governance/committees/cprof-home.
- The 2018 Chair is Fadil Santosa (University of Minnesota).
- The January 2018 Council took the following actions on items brought to it by CoProf:

- Approved a prize description for the Mary P. Dolciani Prize for Excellence in Research, along with the charge of the selection committee
- Amended a 1985 Council statement about data collection
- Approved changes to the charges of the following committees: the selection committees for the Bôcher, Cole and Veblen Prizes; the Nominating Committee; the AMS-ASA-MAA-SIAM Data Committee, and the selection committee for the Award for Distinguished Public Service
- Endorsed a Statement on Peer-reviewed Research

2.1.5 Report on Committee on Publications (CPub).

The ECBT was informed as follows by Sergei Gelfand, Publisher:

- The last CPub meeting was October 13-14, 2017.
- CPub's 2017 annual report can be found on the Committee's web page: www.ams.org/about-us/governance/committees/cpub-home.
- The 2018 Chair is Claudia Polini (University of Notre Dame).
- The January 2018 Council took the following actions on items brought to it by CPub:
 - Approved modification of CPub's annual review schedule from a four-year to a three-year cycle
 - Discharged the Web Editorial Group and approved of the addition of a CPub member to the Web Advisory Group
 - Approved clarifications to the charges of the following editorial committees: Colloquium Publications, Journal of the AMS, Proceedings of the AMS, Mathematical Surveys and Monographs, Mathematical Reviews, and Transactions and Memoirs.

2.2 Report on Mathematical Reviews Editorial Committee (MREC). Att. #2.

The ECBT received the attached report (#2) on the October 9, 2017 MREC meeting from Edward Dunne, Executive Editor.

2.3 Government Relations Report. Att. #3.

The ECBT received the attached report (#3) from Karen Saxe, Associate Executive Director for Government Relations.

2.4 Report on Long Range Planning Committee (LRPC). Att. #38.

LRPC Chair Kenneth Ribet reported on the May 11, 2018 LRPC meeting as follows:

- A charge for the LRPC was formulated and recommended to the ECBT for approval. The ECBT approved the charge, which is attached (#38).
- The charge of the Committee on Education (COE) was discussed. Reports from an ad hoc committee appointed to review the charge, as well as a parallel proposal submitted by the current COE Chair, were discussed. The LRPC decided to forward these documents to the Council via COE for discussion and possible action.
- There was a preliminary discussion of two items that were on the executive session agenda for the present ECBT meeting.

2.5 2019 Institutional Member Dues.

The ECBT approved an average increase of 3% for institutional member dues for 2019.

The ECBT also received a description of a new model for calculating institutional dues that staff is developing for possible adoption in the future.

2.6 Registration Fees for the January 2019 Joint Mathematics Meetings.

The ECBT received a budget summary for the January 2019 Joint Mathematics Meetings in Baltimore, Maryland, including the exhibits budget and estimates of the net income for the meeting resulting from various levels of registration fees. It was noted that the registration fees would be set by the AMS-MAA Joint Meetings Committee (JMC) at their June 11, 2018 meeting and that the Executive Director and the Secretary represent the AMS on this Committee.

[It is noted for the record that the JMC set the member pre-registration fee at \$345, which is a 5% increase.]

2.7 Approval of Proposals Submitted to Funding Agencies and Foundations. Att. #6.

The ECBT received the attached report (#6) on the current status of existing proposals and plans for the next six months. The planning, preparation, and submission of the following proposals was approved:

- A proposal to the National Science Foundation (NSF) to support the Mathematics Research Communities (MRC) in 2020, 2021, and 2022 (to be submitted to the Infrastructure Program, Division of Mathematical Sciences). A request of up to \$1,300,000 is likely.
- A proposal to the NSF to support the CBMS 2020 Study of Undergraduate Programs in the Mathematical and Statistical Sciences in the United States (to be submitted to the Division of Undergraduate Education). A request of about \$750,000 is likely.

2.8 Stipend and Expense Allowance for Centennial Fellowship.

The ECBT approved awarding one Centennial Fellowship for 2019-2020 in the amount of \$93,000, with an expense allowance of \$9,300.

The ECBT requested that the Committee on the Profession (CoProf) examine the underlying principles involved in how this Fellowship is structured.

2.9 2019 ABC and ECBT Meetings.

The ECBT approved the following dates and sites for 2019 Agenda and Budget Committee (ABC) and Executive Committee and Board of Trustees (ECBT) meetings. It was noted that the members of the ABC in 2019 will be: Hawkins, Kra, Nitecki, Pipher, and Savage.

ABC	April 12, 2019 (Friday)	Web Video Conference
ECBT	May 17-18, 2019 (Friday-Saturday)	Ann Arbor, MI ¹
ABC	October 11, 2019 (Friday)	Web Video Conference
ECBT	November 22-23, 2019 (Friday-Saturday)	Providence, RI

2C EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES CONSENT ITEMS

2C.1 November 2017 ECBT Meeting.

The ECBT approved the minutes of the meeting of the Executive Committee and Board of Trustees held November 17-18, 2017, in Providence, RI, which had been distributed separately. These minutes include:

- ECBT open minutes prepared by the Secretary of the Society
www.ams.org/about-us/governance/board/ecbt-minutes-1117.pdf
- ECBT executive session minutes prepared by the Secretary of the Society

2I EXECUTIVE COMMITTEE AND BOARD OF TRUSTEES INFORMATION ITEMS

2I.1 State of the AMS. Att. #19.

The Executive Director's annual report to the spring Council is attached (**#19**). A polished version of this report will be published in the September 2018 issue of the [Notices of the AMS](#).

¹ It is noted for the record that consideration is currently being given to moving this meeting to Providence, RI.

2I.2 Report on AAAS Meeting. Att. #20.

The AMS provides up to \$12,000 annually for travel support of mathematics speakers at the annual meeting of the American Association for the Advancement of Science (AAAS). The Secretary of Section A (Mathematics) of AAAS decides how much support is provided to each speaker, and the reimbursement is then provided directly to the speaker by the AMS. A report on the AMS-supported activities at the 2018 AAAS meeting is attached (#20).

2I.3 2018-2019 AMS Centennial Fellowship.

Upon recommendation of the AMS Centennial Fellowship Committee, Toan Nguyen (Pennsylvania State University) was offered the 2018--2019 Centennial Fellowship. Nguyen accepted the award. The amount of the Fellowship is \$93,000, with an additional expense allowance of \$9,300.

2I.4 2018-2019 AMS Joan and Joseph Birman Fellowship.

Upon recommendation of the AMS Joan and Joseph Birman Fellowship Committee, Margaret Beck (Boston University) was offered the 2018-2019 Birman Fellowship. Beck accepted the award. The amount of the Fellowship is \$50,000. This award was funded by a generous gift from Joan and Joseph Birman along with support from the AMS and the Stephen and Margaret Gill Family Foundation in honor of Hilda Geiringer von Mises.

2I.5 AAAS-AMS Mass Media Fellowship.

The AMS will sponsor a Mass Media Fellow again in 2018. Yen Duong has been selected for this fellowship. Duong completed her PhD in mathematics at the University of Illinois at Chicago in the summer of 2017 and will spend her upcoming summer working for *The News & Observer* in Raleigh, NC. An announcement will be made in the *Notices of the AMS* and posted on the AMS website.

The Mass Media Fellowship program is organized by the American Association for the Advancement of Science (AAAS) and is intended to strengthen the connections between science and the media, to improve public understanding of science, and to sharpen the ability of the fellows to communicate complex scientific issues to non-specialists. It is a ten-week summer program that places graduate and post-graduate level science, engineering and mathematics students at media organizations nationwide.

2I.6 Report on Congressional Fellowship.

The AMS will sponsor a Congressional Fellow again in 2018-2019. The Fellow will spend a year working on the staff of a Member of Congress or a congressional committee, as a special legislative assistant in legislative and policy areas requiring scientific and technical input. James

Ricci has been selected for this Fellowship. Ricci is currently an assistant Professor of Mathematics at Daemen College in Amherst, NY. An announcement will be made in the *Notices of the AMS* and posted on the AMS website and through social media.

The current AMS Congressional Fellow, Margaret Callahan, is working in the office of Senator Amy Klobuchar (MN) through August 2018.

The Congressional Fellowship program, which is organized by the American Association for the Advancement of Science (AAAS), is designed to provide a unique public policy learning experience, to demonstrate the value of science-government interaction, and to bring a technical background and external perspective to the decision-making process in the Congress.

2I.7 Report on Petitions for AMS Graduate Student Chapters. Att. #21.

Att. #21 includes a list of the nine new Graduate Student Chapters that were approved by the Secretariat since the November 2017 ECBT meeting. A current list of all student chapters can be found at www.ams.org/programs/studentchapters.

2I.8 Report on the Young Scholars Programs. Att. #22.

The Young Scholars Program awards grants, which support student scholarships and program operating costs, to selected summer programs for mathematically talented high school students. This year, the Young Scholars Awards Committee evaluated 29 applications for support and recommended funding 18 of them, with the awards totaling \$125,000. The members of the Committee are: Erika Camacho, Aaron Hill, Joel Spencer, and Katherine Stevenson (Chair). Att. #22 contains a list of the programs funded for summer 2018.

2I.9 Changes in Registration Fees for Conferences, Employment Center, or Short Course. Att. #23.

The Executive Director is authorized to make changes in these registration fees and then inform the ECBT. Att. #23 reports the changes in fees for conferences, Short Courses, Employment Information in the Mathematical Sciences (EIMS), the Employment Center, MathJobs.org, and MathPrograms.org that have been made since the November 2017 ECBT meeting.

2I.10 Update on National Academy of Sciences (NAS) Award in Mathematics.

The NAS Award in Mathematics was established in 1988 with an original endowment given by the AMS in commemoration of its Centennial. In 2016, no prize was awarded because the endowment was underfunded. The November 2016 ECBT decided to renew efforts to encourage the NAS to restore the award. The NAS has renamed the award the "Maryam Mirzakhani Prize in Mathematics." The NAS has restored the fund to a level sufficient to award

the prize every third year at the NAS annual meeting. The NAS mathematics section intends to continue raising money so that the prize can be given every two years instead of every three years.

2I.11 Update on Relationship with Association for Women in Mathematics (AWM).

The AMS signed a two-year agreement to provide management services to the AWM, effective January 1, 2018. The agreement states AWM will pay for all services, including covering the salary and benefits for a 0.5 FTE staff member (Steven Ferrucci) to serve as the AWM Managing Director and for a 0.25 FTE staff accountant in the AMS Fiscal Department. The AWM's official headquarters is now 201 Charles Street in Providence. During this transition period, Steven Ferrucci is working a bit more on AWM tasks than anticipated.

2I.12 Report on Use of Donations Collected for FIMU.

Information is provided annually about the use of funds donated through the AMS to the Friends of the International Mathematical Union (FIMU). These donations are made by AMS members when they renew their AMS membership. The funds are used by FIMU to foster mathematics research and scholarship in developing countries.

The table below summarizes the recent receipts to the IMU Developing Country Fund:

Year	Amount
2015	\$9,858
2016	\$10,218
2017	\$10,468

IMU support for developing countries is managed by the IMU Commission for Developing Countries (CDC). Their recent activities are described at www.mathunion.org/cdc/.

2I.13 ICM 2026.

The November 2017 BT affirmed that the AMS would be the natural organization to run the International Congress of Mathematicians if it were to be held in the United States. The AMS expressed a willingness to run the meeting on a fee-for-service basis. This information was communicated to the Chair of the U.S. National Committee for Mathematics (USNCM) at the National Academy of Sciences, Eric Friedlander, as this group is responsible for leading a bid to bring the ICM to the United States. Friedlander reports that efforts are ongoing to secure funding support and to gauge interest within the mathematics community. The USNCM will propose making a bid for ICM 2026.

2I.14 Discontinuation of the AMS Annual Report.

The [Annual Report](#) is a publication produced by the AMS each year. Such reports are typically used by non-profit organizations as a marketing and fundraising tool. There is no legal requirement that an annual report be published. The report gathers together information that is already available in the *Notices of the AMS*, which is the AMS’s official publication of record. All staff stakeholders in the *Annual Report* have come to a consensus that it is no longer needed. The Executive Director has therefore decided to stop producing the *Annual Report*, effective immediately.

2I.15 Discontinuation of the Combined Membership List.

The *Combined Membership List* (CML), the online membership directory of AMS, SIAM, AMATYC, AWM, CMS, and MOS that was hosted on www.ams.org, has been discontinued effective May 1, 2018.

The decision to discontinue the CML was prompted by a new privacy regulation, the “General Data Protection Regulation,” which was issued by the European Union (EU) effective May 25, 2018. Since it could not be guaranteed that those listed in the CML had given explicit permission for their personal information to be used in this way, all organizations participating in the CML agreed to discontinue it.

The AMS is taking this opportunity to plan for a new *AMS Member Directory* for release in 2019. The Membership Department will take the lead in this project to develop a valuable tool for AMS members to connect with their professional community while continuing to protect their information and privacy. In the meantime, the CML has been transitioned into an AMS member directory that is accessible to AMS members on a password-protected platform. Members will use their AMS login information to update their contact information and locate their colleagues.

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

3.1.1 Discussion of Fiscal Reports.

The BT received and discussed various fiscal reports. The focus was on the following:

- the 2016 and 2017 actuals (along with explanations of variances) and the 2018 budget

- information about spendable income, long-term investments and endowment funds
- the 2018 Capital Plan and past actuals
- an analysis of 2017 results

3.1.2 Capital Expenditures – 2017 and 2018 Capital Purchase Plans.

The BT reviewed capital purchases made in 2017 and planned for 2018.

3.1.3 Capital Expenditures - Approval of Specific Purchases.

Capital expenditures of \$100,000 or more require BT approval. No such requests were made at this meeting.

3.2 Spendable Income, Operations Support Fund and other Related Items. Att. #24.

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. #24.

3.2.1 Addition to Operations Support Fund (OSF).

The November 2017 BT approved the staff recommendation that the amount owed to operations² from the long-term investment portfolio at December 31, 2017 be used first to fulfill any obligation to maintain the value of true endowment funds at their original gift amount. The amount owed to operations from the long-term investment portfolio at the end of 2017 was \$3,248,803.05.

At December 31, 2017, the Society's current assets totaled \$19,143,738 and its current liabilities totaled approximately \$16,208,667 resulting in a current ratio³ of 1.18 to 1. In the past, the Society has targeted a ratio of 1 to 1 for current assets to current liabilities. The current ratio is slightly less than the current ratio of 1.19 in 2016. Part of the reason for the decrease is that the short-term investments decreased by about \$2.1 million, due to the need to use the investments for operations.

Each year, the operating portfolio, current ratio, and other factors are evaluated to determine if additions can be made to the OSF. The last addition was \$2,000,000, approved to be added to the OSF at the May 2011 ECBT meeting. There is not additional cash from operations available to invest in the long-term portfolio at this time.

² The amount owed to operations arises as a result of spendable income netted against contributions to endowment and Board designated funds.

³ The current ratio is the Society's current assets from the balance sheet divided by the current liabilities. It is a liquidity ratio that measures the Society's ability to pay short-term obligations. A ratio under 1 generally suggests that an organization would not be able to pay its short-term obligation if they came due at that point in time.

3.2.2 Rebalancing of Economic Stabilization and Operations Support Funds.

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

The amount and direction of the rebalancing required at year end is principally dependent upon the return on the long-term investment portfolio in any year. This return was approximately 18% for 2017. At year end, \$3,386,038 of ESF funds were transferred to the OSF, because the returns on funds invested in the ESF resulted in the balance of the ESF being greater than the required balance.

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

The May 2001 Board of Trustees approved the following (from Item 2E.5 of those minutes):

Income from reserves should be allocated to each year's budget to service and outreach programs of the Society (without specifying exactly which programs). The total amount should be approved by the May ECBT, when revenue projections for the following year are made.

The spendable income from the OSF for 2018 and 2019, determined according to the guidelines approved by the BT is \$3,230,000 and \$3,630,000, respectively. The 2018 amount had been previously approved at the 4% spending rate.

The BT approved Chief Financial Officer Riley's recommendation that \$3,630,000 be designated as OSF spendable income for 2019 at the spending rate of 4%.

3.2.4 Appropriation of Spendable Income from Unrestricted Endowment.

The May 2001 Board of Trustees approved the following (from Item 2E.5 of those minutes):

Each year, the budgeting process will include recommendations for allocating spendable income from the Unrestricted Income Endowment for specific projects. The allocated income will be treated as revenue for operations, offsetting (part of) the expenses. These recommendations will be brought to the Board for approval at its November meeting in the normal budgeting process. The goal will not be to use all the income from such funds each year, but rather to use some of the income every year for the support of mathematical research and scholarship. Using such income should be a regular part of our operations rather than an exceptional situation.

For 2018, the budgeted amount of appropriated spendable income from the unrestricted income endowment is \$298,830. The amount to be budgeted for 2019 is \$268,103.

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.

There were no transfers to another project in 2017, but at year-end, about \$40,000 remained unused, \$10,000 of which will be used in future years for Mathematical Congress of the Americas grants. The remaining \$30,000 may be transferred to another approved project in future years.

3.3 Report on Expenditures from Board-designated Fund for Strategic Plan Implementation.

This item was misplaced on the agenda for this meeting; because it contains proprietary information, the item should have been in the executive session agenda. The item has therefore been moved to the executive session minutes of this meeting.

3.4 Cash Management and the Operating Portfolio. Att. #25.

The BT received the attached report (#25) summarizing the Society's cash management policies and short-term investment performance during 2017.

3.5 Investment Committee Report.

Investment Committee Chair Hawkins reported on the April 25, 2018 Investment Committee meeting as follows:

- A report on current portfolio returns vs. benchmarks for 2015, 2016, 2017 and year-to-date for 2018 was received.
- A report on asset allocation as of March 2018 was received, and the Committee considered whether any rebalancing should be made to conform to the current asset allocation policy. No rebalancing was needed. It was observed, however, that US equities were getting highly concentrated in one company. To avoid an overreliance on one company, some changes were made to diversify that asset class.
- Consideration is being given to recommending a new investment vehicle to the BT at their next meeting.

3.6 Audit and Risk Committee Report. Att. #39.

Audit Committee Chair Jane Hawkins reported that the Committee met on May 11, 2018 with representatives from the auditing firm of CBIZ Tofias to hear a report on the recently-completed audit and to review the draft audited financial statements for the years ended December 31, 2017 and 2016 (these documents had been provided separately prior to the meeting to all members of the BT). Several other BT and staff members attended the meeting, and the Audit Committee also met with the auditors without staff present.

The BT approved the Audit Committee's recommendation to accept the draft audited financial statements for the years ended December 31, 2017 and 2016 and to delegate to management final resolution of minor edits and issuance of the final statements. The final statements are attached (#39).

3.7 Change in Fringe Benefits.

This item was misplaced on the agenda for this meeting; because it contains proprietary information, the item should have been in the executive session agenda. The item has therefore been moved to the executive session minutes of this meeting.

3.8 Annual Reports on Divisions.

This item was misplaced on the agenda for this meeting; because the reports contain proprietary information, the item should have been in the executive session agenda. The item has therefore been moved to the executive session minutes of this meeting.

3.9 Meeting of the Mathematical Reviews Corporation.

In 1983, when the building that currently houses Mathematical Reviews was purchased, a Michigan non-profit corporation was formed in order to obtain exemption from local property taxes in Ann Arbor and from sales and use taxes in Michigan. In order to maintain these exemptions, the corporation ("Mathematical Reviews") must be maintained by holding an annual meeting at which the Officers and Directors of the corporation are elected.

The AMS Board of Trustees meeting was therefore temporarily adjourned, and the AMS Trustees convened as the Board of Directors of the Mathematical Reviews Corporation. Robert Lazarsfeld, President of the Corporation, was in the chair.

The Board of Directors of the Mathematical Reviews Corporation elected the following officers:

President of the Corporation: Joseph H. Silverman
Treasurer of the Corporation: Jane M. Hawkins
Secretary of the Corporation: Zbigniew H. Nitecki

Directors of the Corporation: Ralph L. Cohen
Bryna Kra
Robert Lazarsfeld
Kenneth A. Ribet
Judy L. Walker

The meeting of the Board of Directors of the Mathematical Reviews Corporation then adjourned and the meeting of the AMS Board of Trustees reconvened.

3.10 Meetings of the Membership and Board of Directors of ICM-86.

The Society managed the meeting of the 1986 International Congress of Mathematicians. It organized a new corporation (ICM-86) for the purpose of holding the assets of the meeting, segregating accounts from regular AMS accounts, etc. After the business of the meeting was concluded, it was decided to keep the “shell” corporation alive, in case a separate corporation might be needed some time in the future (since the cost of dissolution would probably be greater than the cost of the annual corporate registration fees, etc., necessary to keep the corporation alive). There are no taxes or other costs involved; however, meetings of the Membership and Board of Directors of the ICM-86 must be held every five years.

The meeting of the AMS BT was temporarily adjourned. The AMS Trustees then convened as the Membership of ICM-86 and elected the following individuals to five-year terms on the Board of Directors of ICM-86:

Professor Ralph Cohen
Professor Bryna Kra
Professor Robert Lazarsfeld
Professor Joseph Silverman
Professor Judy Walker

The meeting of the Membership of ICM-86 was then adjourned.

A meeting of the Board of Directors of ICM-86 then convened, and the following officers were elected:

Professor Joseph Silverman, Chair
Professor Jane M. Hawkins, Treasurer
Ms. Emily D. Riley, Secretary

The meeting of the Board of Directors of ICM-86 then adjourned, and the meeting of the AMS Board of Trustees reconvened.

3C	BOARD OF TRUSTEES CONSENT ITEMS
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3C.1 2019 Individual Member Dues.

The BT ratified the following January 2018 Council decisions regarding individual member dues in 2019:

1. that the salary cutoff for regular high/low rates be raised to \$90,000 for 2019;
2. that the dues for Regular members in the high income category be \$200 for 2019 (Dues for most other categories follow a formula, a percentage of the Regular individual member dues);
3. that the dues for affiliate members be increased to \$20 for 2019;
4. that the maximum number of AMS points that may be applied to dues for any year be equal to the number that would be needed in order to pay that year's affiliate dues rate.

3C.2 Change in Retirement Plan Investment Committee Charge.

The BT approved Chief Financial Officer Riley's recommendation to change the membership of the Retirement Plan Investment Committee to include the "Human Resources Benefit Specialist" rather than "a knowledgeable staff member."

3C.3 Resolutions for Retirees.

The BT approved the following proclamations for employees who retired recently or will retire before the next BT meeting:

*Be it resolved that the Trustees accept the retirement of **Cheryl S. Dwyer** with deep appreciation for her faithful service over a period of 33 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 Cheryl their special thanks and heartfelt good wishes for a happy and well-deserved retirement.*

*Be it resolved that the Trustees accept the retirement of **Roxanne F. McGlynn** with deep appreciation for her faithful service over a period of 27 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 Roxanne their special thanks and heartfelt good wishes for a happy and well-deserved retirement.*

*Be it resolved that the Trustees accept the retirement of **Tammy King Walsh** with deep appreciation for her faithful service over a period of 23 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 Tammy their special thanks and heartfelt good wishes for a happy and well-deserved retirement.*

3C.4 General Guidelines for Appeals for Discounted Subscriptions.

The BT approved the following guidelines, which the staff follows when considering appeals for discounted subscriptions to AMS publications.

- Minimum price for MR Data Access Fee (DAF) of \$200 applicable to institutions in countries found in the two poorest World Bank country listing. Staff can provide this level of discount even if the country does not have a national DAF.
- The discounted price for MR DAF for domestic institutions would not be lower than the greater of 40% of a list price DAF or 40% of the institution's mathematical sciences serials budget, not to exceed regular list price for a DAF.
- The discounted price for MR DAF for non-domestic institutions not included in the first category above would not be lower than 40% of a DAF. To the extent possible, information about serials budgets would also be collected, and, if desired, staff would provide information on publishing activity at the institution.
- Allowable prices for MathSciNet (MSN) can be no less than the lowest published price.
- For other AMS journals, the lowest allowable price would be marginal cost, applicable to the most desperate cases.
- Participation is restricted to academic institutions.

3I	BOARD OF TRUSTEES INFORMATION ITEMS
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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.

For the plan year effective 3/1/2018, AMS will offer one health insurance option for staff in all locations. It is a high deductible BlueSolutions plan through Blue Cross Blue Shield of RI and is coupled with a Health Savings Account (HSA). A similar plan was offered to staff in 2017, as a second option. The plan has a \$2,750/\$5,500 deductible with the AMS funding the HSA accounts with \$2,000 for those with individual coverage and \$4,000 for those with two-person/family coverage. Staff ineligible for an HSA account will have claims paid through a Health Reimbursement Arrangement (HRA). The HRA will pay up to \$2,000 in claims incurred by individuals and up to \$4,000 for those with two-person/family coverage. This plan design option resulted in a premium increase of 1%, with an overall net cost increase to AMS of 6.2%. The BlueSolutions with HSA maintains affordable access to a national network of quality healthcare providers, provides employees with the ability to save for future health care needs, while controlling health care costs paid by the Society.

Respectfully submitted,

A handwritten signature in cursive script that reads "Carla D. Savage".

Carla D. Savage, Secretary

Raleigh, North Carolina

June 25, 2018



Carla D. Savage
Secretary
ams_secretary@ncsu.edu
919.515.7863

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

(from the Ballot dated October 1, 2017)

From the Ballot dated October 1, 2017, votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated September 20, 2017.
2. Approved the proposal to host the Spring 2019 Eastern Sectional Meeting at the University of Connecticut in Hartford, CT (Hartford Regional Campus) on the weekend of April 13-14, 2019.
3. Approved the Minutes of the September Secretariat Business by Mail from the ballot dated September 1, 2017, an email exchange September 1-2, 2017, and a supplemental ballot dated September 13, 2017.

Carla D. Savage



Carla D. Savage
Secretary
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**SECRETARIAT
BUSINESS BY MAIL
MINUTES
December 1, 2017**

(from the Ballot dated November 1, 2017)

From the Ballot dated November 1, 2017, votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated October 20, 2017.
2. Approved the proposal to change the dates of the Fall 2018 Southeastern Sectional Meeting at the University of Arkansas in Fayetteville, Arkansas to November 3-4, 2018.
3. Approved the student chapter petition (attached) from the University of Connecticut in Storrs, Connecticut.
4. Approved the student chapter petition (attached) from the North Dakota State University in Fargo, North Dakota.
5. Approved the student chapter petition (attached) from the Southern Illinois University in Carbondale, Illinois.
6. Approved the student chapter petition (attached) from the University of South Florida in Tampa, Florida.
7. Approved the student chapter petition (attached) from the University of Hawaii at Manoa, Honolulu, Hawaii.
8. Approved the Minutes of the October Secretariat Business by Mail from the ballot dated October 1, 2017.

Carla D. Savage



Carla D. Savage
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**SECRETARIAT
BUSINESS BY MAIL
MINUTES
JANUARY 2, 2018**

From the Ballot dated December 4, 2017, votes were cast by Georgia Benkart, Brian Boe, Michel Lapidus, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated November 20, 2017.
2. Approved the student chapter petition from the University of Toledo in Toledo Ohio.
3. Approved the student chapter petition from the University of Arizona in Tucson, Arizona.
4. Approved April 6, 2019 as the date for the 2019 Spring Council Meeting.
5. Approved the Minutes of the Secretariat Business by Mail from the ballot dated November 1, 2017.

Carla D. Savage



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**SECRETARIAT
BUSINESS BY MAIL
MINUTES
FEBRUARY 1, 2018**

From the Ballot dated January 2, 2018, 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 December 20, 2017.
2. Approved the student chapter petition from the University of California, Irvine.
3. Approved the Minutes of the Secretariat Business by Mail from the ballot dated December 4, 2017.

Carla D. Savage



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**SECRETARIAT
BUSINESS BY MAIL
MINUTES
March 1, 2018**

From the Ballot dated February 1, 2018, 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 January 20, 2018.
2. Approved the proposal to host the Fall 2019 Central Sectional AMS meeting at the University of Wisconsin-Madison, September 14-15, 2019.
3. Approved the proposal to host the Fall 2019 Western Sectional AMS meeting at the University of California, Riverside, November 9-10, 2019.
4. Approved July 19-23, 2021, Buenos Aires, Argentina, with the Mathematical Congress of the Americas (MCA), as the date, location, and co-host for a Joint International Meeting.
5. Approved July 5-9, 2021, Grenoble, France with the French Mathematical Society (SMF), as the date, location, and co-host for a Joint International Meeting.
6. Approved the Minutes of the Secretariat Business by Mail from the ballot dated January 2, 2018.

Carla D. Savage



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**SECRETARIAT
BUSINESS BY MAIL
MINUTES
April 1, 2018**

From the Ballot dated March 1, 2018, votes were cast by Georgia Benkart, Brian Boe, Carla Savage, and Steven Weintraub. The following actions were taken:

1. Approved electing to membership the individuals named on the list dated February 20, 2018.
2. Approved the Minutes of the Secretariat Business by Mail from the ballot dated February 1, 2018.

Carla D. Savage

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

The 2017 annual meeting of the Mathematical Reviews Editorial Committee (MREC) was held on Monday, October 9, in the Mathematical Reviews offices in Ann Arbor, Michigan. The meeting was chaired by Andreas J. Frommer, Bergische Universität Wuppertal, who continues as the chair of the Mathematical Reviews Editorial Committee in 2018. In attendance were committee members: Andreas J. Frommer (Chair), Danny Calegari, Barbara Lee Keyfitz, Jeffrey C. Lagarias, Shigefumi Mori, Pham Huu Tiep, and Catherine A. Roberts (AMS Executive Director); Guests: Motoko Kotani (incoming member of MREC), Edward Dunne (Executive Editor), Norman Richert (Managing Editor), and MR Associate Editors: Andrés Caicedo, Dean Carlson, Steve Damelin, Asen Dontchev, Chris Elmer, James Epperson, Robert Hladky, Guo Ying Jiang, Michael Jones, Vasilii Kurta, Milan Lukic, Lon Mitchell, Irina Sivergina, Margaret Stawiska-Friedland, and Ursula Whitcher. Zbigniew Nitecki (AMS Associate Treasurer) was unable to attend.

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

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

Edward Dunne
April 18, 2018

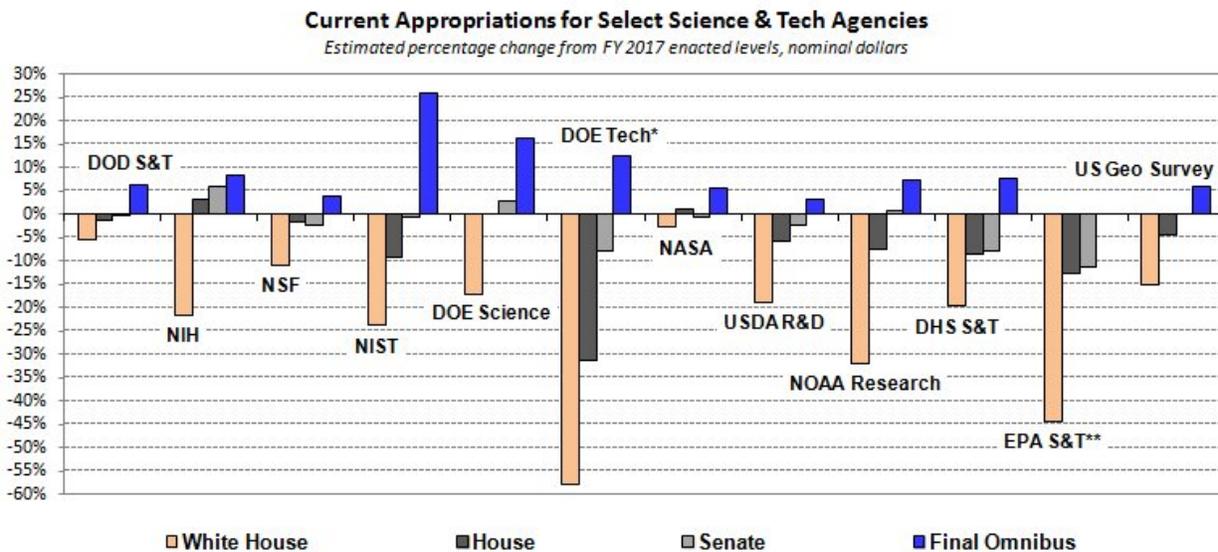
Office of Government Relations Report

April 1, 2018

Federal Budget

On March 21, just in time to avoid another government shutdown, Congress passed a FY2018 budget and the President signed it into law on March 23. It bears good news for the National Science Foundation and for science funding overall.

NSF’s overall funding level was increased to \$7.767 billion (a 4% increase over FY2017), and the Research & Related Activities (R&RA) account was funded at \$6.334 billion (5.5% increase). Most money for the NSF is spent on R&RA. The Division of Mathematical Sciences (DMS) funds are in this large pot. The Directorate for Education and Human Resources (EHR) has its own budget line, and this is increased to \$902 million (3.3% increase). We do not know yet how the R&RA funds will be distributed across six NSF Directorates; this distribution might be expected to be public in June. The chart below (provided by Matt Hourihan, AAAS) shows that science overall received very good news with this budget.



*Includes renewables, efficiency, nuclear, fossil, grid, ARPA-E. **Flat in omnibus. | AAAS

Notably, in its justification for the increase, the conferees stated: “This strong investment in basic research reflects the Congress’ growing concern that China and other competitors are outpacing the United States in terms of research spending, as noted in the 2018 Science and Engineering Indicators report of the National Science Board.” See discussion below of FY2019

budget for more on the concern over global competitiveness. The House summary notes that the bill increases “funding for research grants at the National Science Foundation (\$301M above FY17) to foster innovation, particularly in areas like advanced manufacturing, physics, mathematics, cybersecurity, neuroscience, and STEM education.” This all appears to bode well for the mathematical sciences.

In the meantime, President Trump has issued his full FY2019 budget and Congress will turn their attention soon to their twelve FY2019 appropriations bills (having just finished the negotiations for these for FY2018). The [Office of Government Relations blog](#) gives a primer on the annual federal budget process. The AMS’s priority for Congressional appropriations is for robust and sustained NSF funding. The total amount we are requesting for FY2019 is \$8.45 billion; this is the same amount as the Coalition for National Science Funding (CNSF). CNSF is an alliance of over 130 science related organizations committed to increasing the national investment in science. The President has requested flat funding for the NSF in FY2019. It is our view that flat funding will inhibit our national competitiveness and continue to jeopardize America’s role as an innovation leader.

To arrive at \$8.45 billion, we are using \$8 billion as a base funding level, which is the CNSF community target funding level for FY2018. As we have done in previous years, we are using the guiding principle found in both the *Restoring the Foundation* report and in “*Innovation: An American Imperative*,” which calls for four-percent real growth (which is four-percent plus inflation).

In contrast to our request, the President has requested \$7.47 billion for the NSF. The Trump administration had been poised to propose a 30% cut to NSF for fiscal year 2019, but it added back \$2.2 billion in a last-minute addendum. The FY2017 budget for the NSF was \$7.5 billion and, as mentioned above, we are still waiting for the FY2018 budget.

Though flat funding is certainly better than was expected, there are still worries. First and foremost, our national investment in basic science research has been declining as a share of the federal budget for decades and we are losing our global edge. To compare, China has grown its R&D spending rapidly since 2000, at an average of 18% annually. During the same time frame, U.S. R&D spending grew by only 4%. China has also made an extraordinary commitment of 15% to “talent development” and this includes efforts to bring Chinese scholars back to China. Second, there are Congressional members who favor micro-managing the NSF and allocating funds by directorate, and are in committee positions to be able to do so. In particular, the legislators are divided over the administration’s proposal to cut the Social, Behavioral, and Economic Sciences Directorate’s budget by about 10% while maintaining funding for the other

five research directorates (including MPS) about flat. These concerns are arguably leading to demoralization and fatigue in the science community.

The NSF receives about 50,000 proposals per year, with about a 20% success rate. If all proposals that are rated “very good” or “excellent” were to be funded, this would require about \$3.9 billion, over the \$7.47 request.

For the first time, NSF is requesting dedicated funding for each of its “10 Big Ideas,” most of which are meant to encourage cross-disciplinary inquiry that draws on expertise from two or more of the agency’s six research directorates. Given the flat funding, NSF had to reduce support for “core” disciplinary research to free up resources to launch the Big Ideas. The plan is to distribute \$342.5 million across the Big Ideas.

The Division of Mathematical Sciences (DMS) sits inside the Directorate for the Mathematical and Physical Sciences (MPS). Overall, MPS provides about 64% of the federal funding for basic research at academic institutions in mathematics. For FY2019, the DMS budget request is for \$219 million, marking a 6.3% cut; the MPS request is \$1.35 billion, a cut of 1.3%. It is the case, perhaps counterintuitively, that all disciplinary Divisions in MPS are being cut by at least 5.2%. What balances this out is a 197% increase to the Office of Multidisciplinary Activities (OMA) and this increase is at the expense of the disciplines. The NSF “Big Ideas” will guide funding decisions and MPS will invest OMA funds to advance two of these: Leading the Next Quantum Revolution, and Windows on the Universe.

The EHR request is for \$873 million (FY2017 budget was same). Programs in this Directorate include Graduate Research Fellowships (FY2019 request is \$271 million, down from \$319 million in FY2017), Improving Undergraduate STEM Education (\$103 million, up from \$102 million), and INCLUDES (\$20 million, up from \$14 million).

Other Legislative Priorities

Education

On December 13, 2017, the House Education Committee has passed the Promoting Real Opportunity, Success, and Prosperity through Education Reform (PROSPER) Act. The legislation is currently awaiting consideration by the entire House. The PROSPER Act is the latest attempt to reauthorize the Higher Education Act. Senate-side there have been at least four hearings and, apparently, a bipartisan version will be introduced soon. The House bill presents many challenges for our undergraduate and graduate students in part by the proposed changes to

borrowing and loan repayment. Many higher education groups are speaking out against the bill. The Center for American Progress (a liberal think tank) [summarizes](#) the effects the bill would have on higher education, should it become law.

There continue to be bills introduced in both House and Senate aimed at broadening participation in STEM fields and strengthening the pipeline of the scientific workforce. The current administration tends to think of higher education as merely workforce development and, relatedly, Congress is very interested in career and technical education (CTE) legislation.

Open Access

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

In July, the Fair Access to Science and Technology Research Act of 2017 ([FASTR](#)) was introduced. This bill has bipartisan support and has been introduced in previous congressional sessions. FASTR is an effort to set into law (and strengthen) practices already in place, established in response to a 2013 White House [memo](#).

The bill requires each federal agency – including the National Science Foundation – with extramural research expenditures of over \$100 million to develop a federal research public access policy. The bill was first introduced before the White house memo was released and, now, all agencies have put in place a plan as required and are carrying out their plans. For all awards resulting from proposals submitted since January 25, 2016, NSF requires that either the version of record or the final accepted manuscript be deposited in a public access compliant repository; be available for download, reading, and analysis free of charge no later than 12 months after initial publication; have a minimum of two machine-readable metadata elements available free of charge upon initial publication; and be managed to ensure long-term preservation.

One of the points of contention in the science community has to do with the embargo period. It is our view that this short embargo period is not appropriate for mathematics, and could harm the revenue that the AMS enjoys from its publication subscriptions. The articles impacted are only those publishing research funded with federal monies and this accounts for approximately 30% of articles published in AMS journals.

The AMS position is consistent with the GATF position and is to support open access “done right” and therefore to oppose this legislation as it is now written. Robert Harington writes on this subject; see, for example, his recent post in the [Scholarly Kitchen](#).

Taxes

On December 22, President Trump signed the new tax law. As outlined in the *Capital Currents* blog posts of November 6, November 10 and December 5, early versions of the law included several provisions that would have harmed institutes of higher education and students. Notably, AMS members joined scientists across the country to take action against these provisions; several members including many graduate student members contacted their Congressional delegations. Our actions were successful at least in ensuring that one of the most harmful provisions – the one that would have required students to report tuition fee waivers as taxable income – did not make it into the final law.

Other Activities of the Washington Office

Coalitions

The Office of Government Relations continues to work with several coalitions. Within the mathematics community, we have close working relationships with those doing advocacy work for the Joint Policy Board for Mathematics (JPBM) member organizations (AMS, ASA, MAA and SIAM), and also with Conference Board of the Mathematical Sciences (CBMS). Other coalitions that the AMS is part of include the American Association for the Advancement of Science (AAAS), the Coalition for National Science Funding (CNSF), the Task Force on American Innovation (TFAI), NDD United, and the Government Affairs Task Force (GATF).

Karen Saxe has been participating in meetings organized by TFAI and CNSF in the House and Senate regarding authorization and appropriations for NSF. She has also participated in Hill 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 Policy (OSTP), discussed above and per Public Law 111-358, going and to argue for flexible embargo periods, based on disciplinary journal usage statistics.

Connections within the Federal Government

In addition to making visits to Senate and House offices with the various coalitions, Karen Saxe makes visits on her own, establishing relationships with staff members. She also attends

selected committee hearings, and meetings at the National Academies of Sciences, Engineering, and Medicine.

She has met with key players in the White House. She has established productive relationships with key players in the White House, including Michael Kratsios and Jeff Weld at the Office of Science and Technology Policy (OSTP). Michael Kratsios is Deputy Assistant to the President and Deputy U.S. Chief Technology Officer in the Executive Office of the President. Jeff Weld (Senior Policy Advisor for STEM Education). Jeff Weld's appointment is encouraging. He is charged with 5-Year Federal Science, Technology, Engineering, and Mathematics (STEM) Education Strategic Plan. The White House still has not named an OSTP Director.

She has also met one-on-one with Juan Meza, who took up position in February as Director of the Division of Mathematical Sciences (DMS) at the NSF.

Fellowships

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

The 2017-18 Congressional Fellow is Margaret Callahan. Margaret is working for Senator Amy Klobuchar (MN). Prior to beginning her fellowship, she was a visiting assistant professor at Emory University. The 2018-19 Congressional Fellow will be James Ricci (Assistant Professor at Daemon College; 2014 Wesleyan PhD in number theory and quadratic forms). *At this time James's appointment is not public and thus is confidential.*

The 2018 AAAS Mass Media Science & Engineering Fellow will be Yen Duong. Yen received her PhD from the University of Illinois in Chicago working on geometric group theory with Daniel Groves. She has already been very active writing about mathematics for a broad audience; you can read more about her and sample her writing here: <http://www.yenduong.com>. Yen will spend her summer fellowship with the Raleigh News & Observer.

Events on the Hill

The Office of Government Relations hosts two Congressional Briefings on Capitol Hill. These are jointly organized and sponsored with MSRI. Our most recent briefing took place on December 6, 2017, and featured [Shafi Goldwasser](#) who then worked at MIT. Her presentation was titled "Cryptography: How to Enable Privacy in a Data-Driven World." We were very pleased that President Ken Ribet and President-elect Jill Pipher joined us. In addition, Representatives Nancy Pelosi, Dan Lipinski and Jerry McNerney were in attendance and gave remarks. Shafi flew back

to DC for a March 22 review of this briefing at Senator Schumer's invitation; joining us for this were also Senators Blumenthal, Nelson and Shaheen. Our next briefing (May 22, 2018) will be given by Erik Demaine, also of MIT. Erik's abstract reads:

Surprising applications in manufacturing, robotics, animation, biology, medicine, nanotech, and space technology have grown from new fundamental research in computational origami, the study of the mathematical and geometric underpinnings of the simple act of folding. Erik Demaine, MacArthur Fellow and MIT computer scientist, has been instrumental in these developments, and he will explain and illustrate this work.

Professor Demaine is also an acclaimed artist, and was featured on NOVA's "The Origami Revolution". His works have been shown at major museums, and his pieces are in the permanent collections of Washington D.C.'s Smithsonian Renwick Gallery and New York's Museum of Modern Art (MoMA).

On May 9, 2018, we will host Talea Mayo (University of Central Florida) as the AMS-sponsored exhibitor for the 24th Annual CNSF Capital Hill Exhibition. Talea will present on applications of mathematics in the atmospheric sciences and her exhibit will include storm surge simulations.

AMS Policy Committees

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

Joint Mathematics Meetings

The Office of Government Relations organizes the annual AMS Department Chairs Workshop, which takes place the Tuesday prior to the official start of JMM, as well as panels and other activities during the JMM. The panels and other activities were:

- Committee on Education panel: *Preparing mathematics students for non-academic careers*
- Committee on Science Policy panel: *Funding at federal agencies & advocacy for grassroots support*
- SIAM-MAA-AMS Joint panel: *Multiple Paths to Mathematics Careers in Business, Industry and Government*
- AMS Congressional Fellowship Session
- NSF-EHR Grant Proposal Writing Workshop: *Developing a Competitive Proposal for NSF-EHR*

Additionally, Karen Saxe served on an AWM panel on *Being a Mathematician and an Activist*, and on an MAA panel for Chairs on *Bridging the Gap*.

Hiring

Paula Olugbemi, our new Assistant to the Associate Executive Director, began work at the very end of November. Paula is a 2017 graduate of Virginia Commonwealth University. She majored in Political Science and International Relations, and while in college worked for Delegate Lashrecse Aird in the Virginia House of Delegates.

Other Outreach

Karen Saxe continues to give talks at colleges and universities, and will be giving a May 8 webinar for the National Academies as part of their Mathematical Frontiers webinar series.

Update on proposals planned or submitted

There are two new proposals for which ECBT approval is sought. This report also provides an update on the status of proposals that were previously approved.

Submitted

Travel Support for U.S. Participants in ICM 2018

- The ECBT approved submission of this proposal at its May 2017 meeting.
- Submitted to the Infrastructure Program in the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF).

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

Cancelled

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

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

Starting in 2001, the AMS *Math in Moscow* scholarships provided support for U.S. participants in a fifteen-week program for mathematically talented undergraduates that is conducted by the Independent University of Moscow (IUM), the Higher School of Economics Faculty of Mathematics, and the Moscow Center for Continuous Mathematical Education. The scholarships were funded by a series of grants from the NSF. Changes in the NSF guidelines led, after consultation with the head of the IUM, to a decision not to seek renewed funding. The most recent grant has now been fully expended, and the final scholarships are being used by participants who are studying in Moscow in Spring 2018.

NSF INCLUDES Alliance: Inclusive Graduate Education (IGEN)

- The ECBT approved submission of this proposal at its May 2017 meeting.
- Collaborative proposal with the American Physical Society (APS) and other professional organizations.
- To be submitted to the NSF INCLUDES Alliance program.
- The AMS portion of the budget expected to be about \$2.5 million over a five-year period.

Partly because of opposition from segments of the mathematical community to its strategy for to increasing the number of students from under-represented minorities who complete Ph.D.'s, the APS decided to drop the mathematics component of this proposal. The AMS may choose to pursue portions of the project on its own.

Deferred

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

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

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

Planned

Mathematics Research Communities (MRC), 2020-2022

- Support of the MRC program in 2020, 2021, and 2022.
- To be submitted to the Infrastructure Program in the Division of Mathematical Sciences at the NSF.
- A request of up to \$1,300,000 is expected.

Each year, the MRC program helps one hundred twenty graduate students and recent Ph.D.s to form collaborative research groups working on open problems in the areas chosen as the topics for the MRC summer conferences. Current funding supports the MRC program through 2019. The renewal proposal should be submitted in fall 2018 or soon thereafter.

CBMS 2020: A Study of Undergraduate Programs in the Mathematical and Statistical Sciences in the United States

- Funding to support the 2020 CBMS Survey and Report.
- To be submitted to the Division of Undergraduate Education, Directorate for Education and Human Resources, at the NSF.
- A request of approximately \$750,000 is expected.

This project will conduct a statistical study of undergraduate mathematical and statistical sciences programs throughout the United States and produce a comprehensive report that will

have enduring use and interest in the mathematical, academic, and wider communities. Using stratified random sampling of two-year and four-year college and university departments, the survey will incorporate questions regarding such matters as curriculum, teaching practices and infrastructure, student characteristics and pathways, and the demographics of instructional staff. The project is to be coordinated by the Conference Board for the Mathematical Sciences (CBMS) and will be managed by the AMS. The anticipated products are a web-based resource, a book similar to those published for each of the earlier CBMS Surveys, and other publications. The project continues a longitudinal study of undergraduate mathematical sciences that has been conducted every five years since 1970.

We request approval of the ECBT to plan, prepare and submit these two proposals.

*T. Christine Stevens
Associate Executive Director
April, 2018*

April 2018 Draft Report

Report of the Executive Director: State of the AMS, 2017

The American Mathematical Society continues to advance research and to create connections in the mathematics community. Notable highlights of the year include:

- The acquisition of the Mathematical Association of America (MAA) book program. Over 450 titles have been added to our rich publication program of books, journals, and MathSciNet. In addition, the AMS published 78 new books, and we are seeing sales of our eBooks continue to grow.
- Extensive efforts went into creating a new logo and tagline (Advancing research. Creating connections.):



- Over 6,100 people attended the Joint Mathematics Meetings in Atlanta. Almost a third of these attendees were students!
- In 2017, sixty-five new mathematical scientists from around the world were named Fellows of the American Mathematical Society. Among the many prizes and awards in 2017, the Leroy P. Steele Prize for Lifetime Achievement went to James G. Arthur.
- We launched our new Membership Department with Megan Turcotte as its Director.
- The National Science Foundation awarded us \$297,000 for travel grants to U.S. mathematicians participating in the International Congress of Mathematicians in 2018.
- The AMS regularly sponsors a mathematician each year as a Congressional Fellow. Typically, only one or two of the over 300 scientists serving in this way are mathematicians. Our Office of Government Relations is pleased to let our community know that in 2017 there were five mathematicians (including our own AMS Fellow, Margaret Callahan) serving as Congressional Fellows.

Strategic Plan 2016-2020

How can the AMS best serve our members and the larger mathematics community? This question helped drive the formulation of a new AMS Strategic Plan. Just as the previous Strategic Plan from 1991 led to many effective changes, including the establishment of five policy committees to streamline our governance structure, our new plan offers a framework to move the Society forward with six over-arching initiatives. The plan was approved by the Executive Committee and Board of Trustees in November 2015 and by the Council in January 2016.

Changes will continue to roll out as we implement this thoughtful and ambitious plan. Below are some highlights from 2017 in each of the six major initiatives.

Advocacy, Awareness and Visibility

The AMS is a volunteer-driven organization with a spectacular range of valuable programs, publications, and services. We want to increase members' awareness of and participation in our offerings, including connecting people more efficiently with helpful resources, helping professionals become involved in advancing public policy around mathematics, and by promoting a broader public appreciation for mathematics.

Our Strategic Plan calls for the creation of new and consistent branding across the AMS for its publications, programs, and services. A working group of our AMS president, representatives from our Board of Trustees, Council, and AMS staff collaborated with a design firm to update and improve our visual presence and messaging. Tremendous efforts are underway in our Computer Services Division to update our website with the new branding. The public spaces in our Providence headquarters were updated in 2017 with this branding and also now display the Concinnitas art prints, donated to us by

On the advocacy front, software was purchased to launch an AMS Grassroots Advocacy Network in 2018.

Develop and promote a coherent portfolio of programs, meetings, publications and professional services

We are taking stock of what we do, evaluating it in terms of efficacy, content, and costs, to craft a portfolio that delivers on our mission for all mathematics professionals. We are identifying ways in which existing programs can reinforce one another, and determining whether new programs are needed to complement ones that already exist. In 2017, we concluded the initial phase of a systemic assessment of our meetings, programs, and activities. The Math in Moscow scholarship program will end after the final scholarships to support students in spring 2018 are granted. The AMS Activity Groups were terminated due to lack of interest.

Diversity and Inclusion

In 2016, Helen G. Grundman became our first Director of the newly-established Department of Education and Diversity. Her initial focus remains on graduate education in the mathematical sciences, preparation of students entering graduate programs, mentoring for success in graduate school, and the promotion of diversity and inclusiveness at the graduate level. This office joined several other organizations in organizing the highly successful panel at the Joint Mathematics Meetings about “The Mathematics and Mathematicians behind *Hidden Figures*.”

Mathematical Reviews/MathSciNet

Research mathematicians recognize the value provided by MathSciNet, our online database of the mathematical literature containing expert reviews and additional resources. The AMS will ensure that the Mathematical Reviews database evolves with the changing needs of researchers and with advances in technology. In order to integrate MathSciNet into the daily habits of mathematicians, we are improving the user interface, creating new features and tools, and building partnerships with valued resources such as the arXiv and MathOverflow.

Membership Development

To be successful, we need to serve each rising generation of mathematics professionals and to keep our communication channels open to hear what the membership needs. In 2017, we established a Membership Department and hired Megan Turcotte as its Director.

The AMS supports you and all mathematicians at many stages of your careers. Our unified presence helps advocate for funding, policies, and programming, as well as improving collaboration across fields of study. The AMS helps us connect as a community of mathematicians through our meetings and conferences, with programs like the Mathematics Research Communities (MRC), and with our many excellent publications. We develop and maintain products like MathSciNet, Mathjobs.org, and MathJax to support your work.

We have a presence in Washington DC to advocate for NSF funding and other matters that impact mathematics. We also honor mathematicians through the AMS Fellows and many prizes and awards. With the generous help of donors, we established new awards in 2017, including the Joan and Joseph Birman Fellowship for Women Scholars and the Mary P. Dolciani Prize for Research Excellence. We also received a generous challenge grant that led us to begin fundraising for a new Campaign for the Next Generation. You’ll hear more about all these exciting opportunities in the coming months.

Publishing

There are more than a dozen projects underway as part of our implementation of the AMS Strategic Plan within Publishing. To accommodate the growth in the volume of research literature, the AMS is striving to publish more high quality content through our book and journal programs. In 2017, we acquired the MAA book program, which adds over 450 new titles to our library.

We are always working to develop innovative tools for research and teaching. With eBooks, blogs, and other emerging forms of publishing, we continue to enrich the professional work of mathematicians. For example, in January 2017, we launched AMS Open Math Notes - ams.org/open-math-notes - to host freely available course notes and syllabi from undergraduate and graduate mathematics courses. We also modified the online version of the *Notices* to create a more dynamic and streamlined look.

Washington, DC, Office is now the AMS Office of Government Relations

The AMS Office of Government Relations advocates for science and mathematics at the national level. Staff members and member volunteers represent the interests of the mathematical community to federal agencies, legislative offices, and other science policy groups, coalitions, and professional organizations. We aim to strengthen the public perception of the significance of mathematics to impact science policy considerations. If you are interested in being a part of our grassroots advocacy efforts, keep an eye out for announcements in the coming months.

Karen Saxe started in January 2017 as the new Associate Executive Director for the Office of Government Relations. Karen brings great experience as a department chair, professor, and as a former AMS/AAAS Science and Technology Policy Congressional Fellow. Our DC office organized several events in 2017, including the 20th annual AMS Department Chairs Workshop, meetings of the AMS Committee on Science Policy and the AMS Committee on Education, and panels at the Joint Mathematics Meetings. This year, we sponsored an exhibit entitled "Berry Smart: Mathematics for Food and Water Security" at the Coalition for National Science Foundation (CNSF) Exhibition presented by Lea Jenkins (Clemson University). Our Office of Government Relations joined with the Mathematical Sciences Research Institute (MSRI) to host two Congressional lunch briefings on Capitol Hill for members of Congress and their staff. In June, David Donoho (Stanford University) presented "Blackboard to bedside: How high-dimensional geometry is transforming the MRI industry" and in December, Shafi Goldwasser (MIT) presented "Cryptography: How to Enable Privacy in a Data-Driven World."

The AMS selects and sponsors one Congressional Fellow in concert with the American Association for the Advancement of Science (AAAS). This year's fellow is Margaret Callahan (PhD from Case Western Reserve University) who is working in the office of Senator Amy Klobuchar (MN). We also select and support one Mass Media Science & Engineering Fellow through AAAS. In 2017, we selected Ben Thompson, a PhD student at Boston University who spent the summer at Voice of America.

Publishing

Mathematics professionals need access to high-quality mathematics; publishing is thus an essential component of the AMS mission. The AMS publishing program is multi-faceted and consists primarily of our book program, our journal program, and the Mathematical Reviews database, which feeds our online tool, MathSciNet.

As mentioned above, the big news in 2017 was our acquisition of the MAA book program. The Mathematical Association of America (MAA) has long-published high-quality books. Their acquisitions editor, Stephen Kennedy, is now bringing new MAA manuscripts to the AMS. Additionally, we published 78 new AMS books. We encourage our members to discuss new book or journal ideas with us, as publishing with the AMS generates income to the Society used to support our conferences, programs, and services. Our production staff provide excellent author support and our books, as you surely know, are priced reasonably.

AMS journals remain a highly respected venue for the publication of important mathematics research. We continue to publish two Gold Open Access journals, *Proceedings of the AMS, Series B* and *Transactions of the AMS, Series B*. We are actively addressing backlog issues and are seeing some improvements.

As the research literature grows, we strive to maintain our Mathematical Reviews database so it can continue to serve as a valuable resource to the mathematics community. This year, we added 133,581 bibliographic items and 105,563 reviews to the database that feeds MathSciNet. As the volume of mathematics literature continues to grow, the AMS is increasingly cautious about adding new journals for coverage. This will help preserve the excellent quality of this important research tool.

The AMS continues to expand its promotion and marketing to help mathematicians access our strong publishing program's products. In 2017, Marketing became a stand-alone department and received new resources to help support these efforts.

Meetings and Professional Services

The importance of gathering with colleagues to share ideas and new research cannot be overestimated. AMS professional meetings, programs, and services support the continuing professional development of our membership and the mathematics community at large. We run a rich constellation of mathematical programs, such as the tenth year of our Mathematics Research Communities (MRC) program. This program helps early-career mathematicians launch their research programs by fostering collaborations during week-long workshops. Three MRC conferences served early-career mathematicians last year.

The workshops in 2017 were (1) Homotopy Type Theory; (2) Beyond Planarity: Crossing Numbers of Graphs; and (3) Dynamical Systems: Smooth, Symbolic, and Measurable. We also provide support for several programs benefiting the entire mathematics community. For example, we conduct the annual survey for the Conference Board of the Mathematical Sciences, an umbrella organization of seventeen professional societies in the United States.

The AMS writes grant proposals to external agencies and in 2017 received continued support of the AMS-Simons Travel Grants. The MRC program is funded, in part, by the National Science Foundation. Additionally, a new grant from the Simons Foundation is supporting ongoing enhancements to MathJax, an open-source cross-browser JavaScript library that displays mathematical notation in web browsers.

In addition to running our recurring meetings and conferences, such as the Joint Mathematics Meetings (held in Atlanta in January 2017) and eight regional Sectional meetings, we also provided financial and operational support for the MRC workshops in Snowbird, UT. We note that the MRC program will be held in Rhode Island in 2018.

Our Public Awareness Office maintained and expanded its activities to promote mathematics and to promote the Society and its programs. It continued to bring our popular *Who Wants to Be a Mathematician?* Game to new audiences. It also produced the printed Calendar of Mathematical Imagery and new Mathematical Moments.

AMS Operations

The AMS has over 200 employees working in Rhode Island, Michigan, and Washington. All of our efforts are supported by professionals who help us support our human resource and manage our fiscal health, investments, and budget. In light of the upcoming implementation of the European Union's General Data Protection Regulation, staff have received legal advice and professional training to help ensure we stay on the leading edge of security. I am reminded daily how the tremendous efforts of AMS staff and volunteer leaders come together to create the wonderful world of AMS activities.

To Our Members and Supporters

If you are reading this you are part of our mathematics community and hopefully a member of the AMS. The AMS is responding to evolution in the mathematics landscape, and I am pleased to have you join in our important work.

There are many ways to get involved – for example, you could volunteer to serve on a committee at <http://www.ams.org/about-us/governance/committees/comm-all.html> or contact our publisher, Sergei Gelfand, with your ideas for new books. Our Public Awareness Office might be able to help publicize your math event on AMS social media (contact paoffice@ams.org or tag your posts with #amermathsoc). If you are a member, let us know about any professional accomplishments!

Please drop in to visit us at our Providence, RI, headquarters or in our Ann Arbor, MI, (Mathematical Reviews) or Washington, DC, (Government Relations) offices. Visit our refreshed website at www.ams.org for more details on anything described in this report.

Thank you for all the ways in which you advance mathematics.

Catherine A. Roberts
Executive Director
April 2018

Mathematics at the 2018 AAAS Meeting

The 2018 annual meeting of the American Association for the Advancement of Science took place in Austin, TX February 15-19. The theme of the meeting was “Advancing Science Discovery to Application.”

The following session was mentored by Section A (Mathematics) and the expenses of the participants were partially covered by the AMS:

- Hans Engler and Hans Kaper, both of Georgetown University, have organized a symposium on *Mathematics of Planet Earth: Superbugs, Storm Surges, and Ecosystem Change* for Sunday, February 18, 2018 03:30 PM - 05:00 PM

This session highlighted recent progress in the modeling and analysis of three major challenges in public health, environmental stewardship, and ecology. Mathematical modeling and computation, together with new methods of data gathering, can predict or reconstruct the spread of disease across populations, make detailed forecasts of the effects of storm surges or land loss on coastal landscapes, and explain the occurrence of shrubland patterns and fairy rings in savannahs. These same models can also help assess the effectiveness of vaccinations against disease or of evacuation plans in extreme weather events, and they can identify early warning signals for irreversible ecosystem changes such as desertification. These are examples of collaborations across disciplines where mathematics and computational science play an essential role. Speakers share these as part of an emerging effort to develop the “Mathematics of Planet Earth.”

Topics and speakers were:

[Unseen Enemies: Surveillance, Predicting, and Controlling Epidemic Outbreaks](#) **Glenn Webb**,
Vanderbilt University, Nashville, TN

[Spatial Self-Organization and Its Implications for Ecosystem Robustness](#)

Corina Tarnita, Princeton University, Princeton, NJ

[Resilient and Sustainable Coasts: How Mathematics and Simulation Play a Role](#) **Clint Dawson**,
University of Texas at Austin, Austin, TX

Section A named six mathematicians as AAAS Fellows this year. Appointed were: Edward Aboufadel; Quiang Du; Joceline Lega; W. James (Jim) Lewis; Peter March; and Panatiotis E. Souganidis.

During the Section A business meeting, potential symposium topics for the 2019 meeting were discussed, as well as possible activities for the 2019 meeting. One possibility is the addition of a fellows reception, to take place before the business meeting, including brief presentations of the newly inducted fellows. Another activity to be considered is to work with regional mathematics departments in the Washington, DC, area, where the 2019 meeting will take place to bring mathematics students and postdocs to the AAAS meeting, with Section A covering the meeting registration fee. As many as 30 participants could be supported in this way.

Reinhard Laubenbacher
Secretary, Section A (Mathematics)
AAAS

AMS Graduate Student Chapters



Chapters that have been approved since the last ECBT meeting:

1. Southern Illinois University, Carbondale
2. University of Connecticut
3. North Dakota State University
4. University of South Florida
5. University of Hawaii
6. University of Arizona
7. University of Toledo
8. University of California, Irvine
9. University of Texas at Arlington (pending approval)

2018 JMM in San Diego, CA

The Membership staff hosted the Graduate Student Chapter Luncheon at JMM for the third year in a row. This event used a new format with a speaker and interactive activity, which the Department will begin using as a common agenda for each luncheon. The theme of the luncheon was “professional development”, which was a commonly suggested topic at the 2017 JMM Luncheon.

Catherine Roberts, Executive Director, spoke about her own achievements with professional development. After speaking, attendees were given tee shirts, markers, and a roster of example leadership skills. The attendees were asked to create a leadership resumé tee shirt using the example skills or their own set of skills. As they designed their shirts, attendees engaged in conversation with AMS leaders, who were seated at each table.

The event was well received by the students, faculty, AMS leaders and staff who attended. The 2019 event will incorporate more hands-on activities to encourage conversation. We will continue to develop the agenda for this annual event.

Graduate Student Chapter Guidelines

The Membership Department is revising the current guidelines for the AMS Graduate Student Chapter program, in order to make it financially sustainable. The Department is also editing the AMS Graduate Student Chapter Rules of Procedure, which are the governing documents for each Chapter. The goal is to guide the chapter leaders and members with a mission and structure while increasing the AMS branding of this valuable program. The Department will present the edited

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document to the Subcommittee on Membership and Member Benefits for their input before submitting a report about the changes to the Committee on the Profession.

Megan Turcotte
Director of Membership
April, 2018

2018 Young Scholars Awards

Camp/Program Name	Location	Director	Amnt of Award
All Girls/All Math	University of Nebraska Lincoln	Mikil Foss	\$3,000
Baa Hozho Math Camp	Dine College	David Auckly	\$8,000
Bridge to Enter Advanced Mathematics (BEAM)	Bard College, and Union College	Daniel Zaharopol	\$15,000
Canada/USA Mathcamp	Colorado School Of Mines	Marisa Debowsky	\$10,000
GirlsGetMath@ICERM	ICERM-Brown University	Brendan Edward Hassett	\$2,500
GirlsGetMath@Rochester	University of Rochester	Amanda Tucker	\$2,500
Hampshire College Summer Studies in Math	Hampshire College	David C. Kelly	\$10,000
MathILy	Bryn Mawr	Sarah-Marie Belcastro	\$6,000
MathILy-Er	Bowdoin College	Jonah K. Ostroff	\$5,000
MathPath	Lewis & Clark College	Stephen B. Maurer	\$9,000
Mathworks Honors Summer Math Camp	Texas State University	Max Warshauer	\$15,000
New York Math Circle High School Summer Program	Courant Institute of Mathematical Sciences at NYU	Kovan Pillai	\$2,500
Programs in Mathematics for Young Scientists (PROMYS)	Boston University	Glenn Stevens	\$10,000
Puerto Rico Opportunities for Talented Students in Math (PROTaSM)	University of Puerto Rico, Mayaguez Campus	Luis F. Caceres	\$8,000
Ross Mathematics Program	Ohio State University	Daniel B. Shapiro	\$8,000
Summer Institute for Math at UW (SIMUW)	University of Washington, Seattle	Ron Irving	\$2,500
Summer Math Program For Young Scholars	Courant Institute of Mathematical Sciences at NYU	Selin Kalaycioglu	\$3,000
UPenn Summer Math Academy	University of Pennsylvania	Robert Strain	\$5,000

The following fees for the Employment Center, EIMS, MathJobs.org, MathPrograms.org, and the AMS Short Course have been approved by the Executive Director.

Fees for the Employment Center

The employer fees listed in the chart below have been approved for the 2019 Employment Center in Baltimore, Maryland. Applicants pay no fees but are required to have a meeting badge.

Usage by employers, and even by applicants, has fluctuated over the last few years; the numbers of tables sold for each of the last seven years were, from most recent back: 74, 62, 91, 80, 85, 106, 96. Registered applicant numbers have fallen from about 1000 in the recession years of 2008-2010 to about 500 in 2018 (a trend repeated many times in the last 65 years). The AMS Council Statement on interviewing clearly encourages use of the Employment Center for interviews and, in particular, discourages the use of personal hotel rooms, so the Employment Center is maintained for the good of the community.

Costs of running this program include space and equipment fees, electricity (at each table) and internet, computer rental fees, and staff time and travel. There is also a significant fee paid annually to the Duke University Mathematics Department for the customized registration system attached to MathJobs.org.

The most recent measure to control costs has been the decision to discontinue, at the upcoming 2019 JMM, the Saturday morning hours, which were scarcely used in recent years.

Employment Center	<i>Summary of recent and planned fees</i>					
	2014	2015	2016	2017	2018	2019
<i>Quiet Area table (1-2 interviewers)</i>	315	320	340	350	350	355
<i>Second Quiet Area table</i>	130	130	175	195	195	200
<i>Committee table (3-6 interviewers)</i>	390	400	430	440	440	445
<i>Second Committee table</i>	140	145	190	215	215	220
<i>Electricity, per table</i>	75	85	FREE	FREE	FREE	FREE
<i>One Day table, available on site, seats 3 interviewers</i>		190	195	195	195	195

Fees for Employment Information in the Mathematical Sciences (EIMS)

The following fees have been approved for the 2018/19 *Employment Information in the Mathematical Sciences* electronic job ad system.

This system, utilizing software and web hosting provided by Boxwood Technology, is aimed at a general mathematical audience as well as the Ph.D. market. It has the appearance of being housed on the AMS website. The “Featured Job” functionality allows employers to have their job featured more

prominently in search results. In 2017, 214 employers purchased 367 ads; usage is down from its peak of over 1300 ads in the early 2000's.

Job ads continue to migrate to Mathjobs.org and eventually the EIMS system may not be needed at all.

EIMS <i>Summary of recent and planned fees</i>						
	<i>2013/14</i>	<i>2014/15</i>	<i>2015/16</i>	<i>2016/17</i>	<i>2017/18</i>	2018/19
<i>60 day listing, unlimited size</i>	225	230	235	240	245	250
<i>120 day listing, unlimited size</i>	305	310	315	320	325	330
<i>180 day listing, unlimited size</i>	380	390	395	400	405	410
<i>"Featured Job" add-on</i>	80	85	90	90	90	95

Fees for MathJobs.org

The following fees have been approved for 2018/19 MathJobs.org employer registrations (from July 1, 2018 through June 30, 2019). The service is free to applicants. Full application accounts are available worldwide, as well as posting-only accounts.

There are currently 751 employer accounts on MathJobs.org; usage continues to grow. In 2017, 1659 jobs were posted; 8294 applicants made a total of 148,138 applications. Reference letters were uploaded by 12,000 writers.

Planned employer fees 2018/19:

Regular account (for up to 7 ads), 12 months from date of sign up	\$625
Regular account (for one ad only), 12 months of usage from date of sign-up	\$430
Upgrade from single-ad account to 7 ad account	\$300
Advertising-only account (for up to 7 ads), 12 months from date of sign up	\$510
Advertising-only account (for one ad), 12 months from date of sign up	\$320

MathJobs.org	<i>Previous fees</i>					
	<i>2012/13</i>	<i>2013/14</i>	<i>2014/15</i>	<i>2015/16</i>	<i>2016/17</i>	<i>2017/18</i>

Regular Account	<i>Up to 7 ads</i>	\$585	\$595	\$600	\$610	\$615	\$620
	<i>1 ad</i>	\$395	\$405	\$410	\$415	\$420	\$425
Upgrade from 1 to 7 ads			\$290	\$290	\$295	\$295	\$295
Ad-only account	<i>Up to 7 ads</i>	\$475	\$485	\$490	\$495	\$500	\$505
	<i>1 ad</i>	\$285	\$295	\$300	\$305	\$310	\$315

Fees for MathPrograms.org

The following fees have been approved for 2018/19 Mathprograms.org registrations. This clone of MathJobs.org is a setting for program, grant, admissions and fellowship applications. The site also has a mechanism for turning any program into a nomination procedure (instead of applications).

There are 49 accounts currently in the system, including various AMS programs. REU programs, graduate admissions, and a few institute programs account for a majority of the listings. There were 111 programs placed on the system in 2017, and 7801 applicants made nearly 14,000 applications.

The fees will be in effect from July 1, 2018 through June 30, 2019. A one-program fee is in place to support small programs. The service is free to applicants.

MathPrograms.org	<i>Summary of recent and planned fees</i>					
	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
<i>Regular account, up to 7 programs, 12 months from date of sign up</i>	\$535	\$540	\$575	\$580	\$580	\$585
<i>Regular account, 1 program, 12 months from date of signup</i>	\$270	\$275	\$300	\$305	\$305	\$310

Short Course Fees

The following chart indicates the history of fees for the Short Course since 2007 and the fees that have

Year	Name of Course	Preregister-member/non	On-site-member/non	S/U/E-prereg*	S/U/E-onsite*
2008	Applications of Knot theory	\$94/\$125	\$125/\$155	\$42	\$63
2009	Quantum Computation and Quantum Information	\$96/\$130	\$130/\$160	\$44	\$65
2010	Markov Chains and Mixing Times	\$98/\$135	\$132/\$165	\$46	\$67
2011	Computational Topology	\$100/\$140	\$134/\$170	\$48	\$69
	Evolutionary Game Dynamics	\$100/\$140	\$134/\$170	\$48	\$69
2012	Random Fields and Random Geometry	\$102/\$145	\$136/\$175	\$50	\$71
	Computing with Elliptic Curves using Sage	\$102/\$145	\$136/\$175	\$50	\$71
2013	Random Matrices	\$104/\$150	\$138/\$180	\$52	\$73
2014	Geometry and Topology in Statistical Inference	\$106/\$155	\$140/\$185	\$54	\$75
2015	Finite Frame Theory: A Complete Introduction to Overcompleteness	\$108/\$160	\$142/\$190	\$56	\$77
2016	Rigorous Numerics in Dynamics	\$110/165	\$144/\$195	\$58	\$79
2017	Random Growth Models	\$112/\$170	\$146/\$200	\$60	\$81
2018	Discrete Differential Geometry	\$114/\$175	\$148/\$205	\$62	\$83
2019	Sum of Squares: Theory and Applications	\$124/\$190	\$158/\$225	\$72	\$93

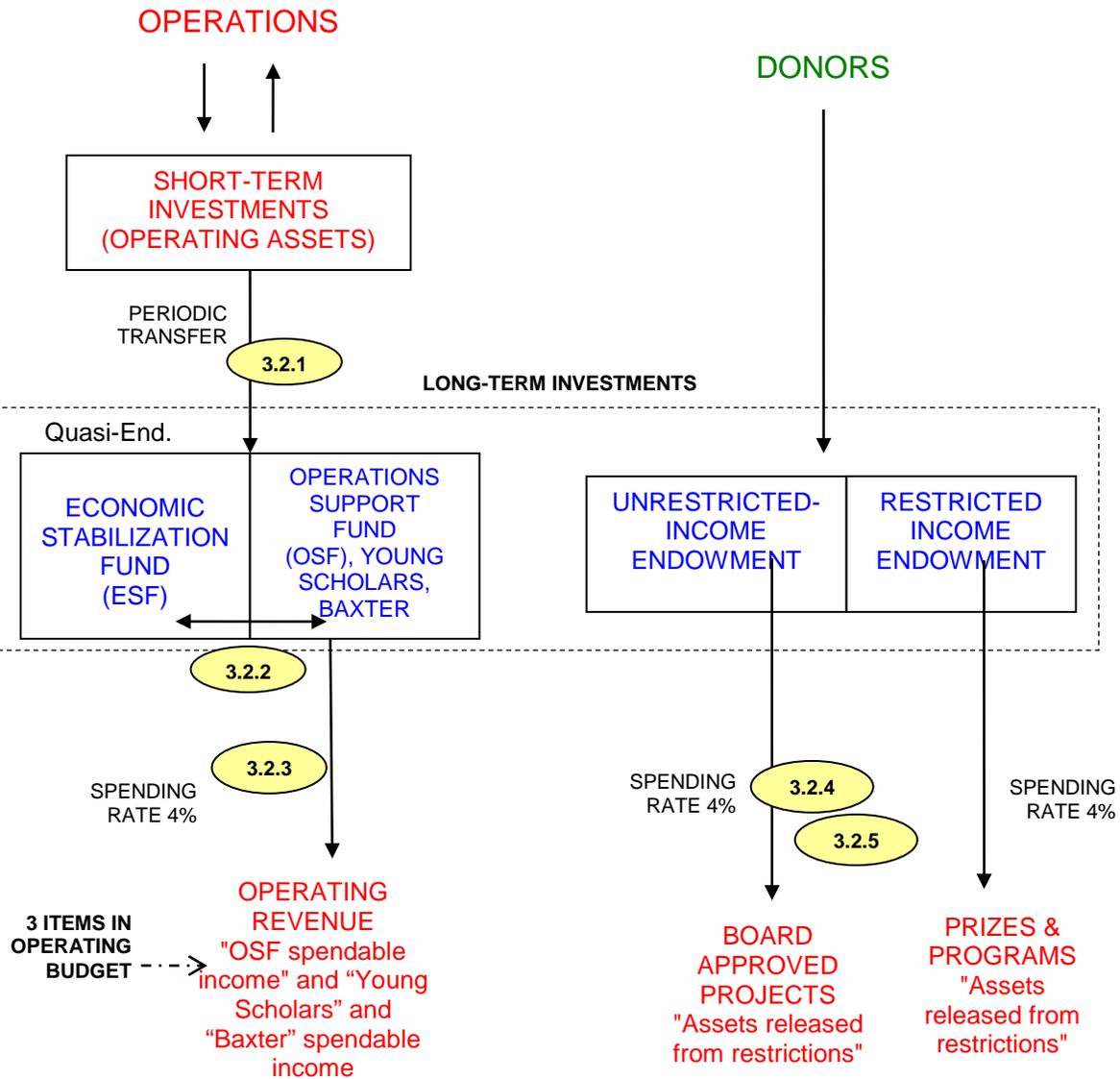
been set for 2019.

*S/U/E: Student/Unemployed/Emeritus

*T. Christine Stevens
 Associate Executive Director
 April, 2018*

AMS Long-term Investments Cliffs Notes

(For details, see section D of Fiscal Reports)



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

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

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

Values as of:	12/31/17	12/31/16
ESF	\$ 25.1 M	\$24.2 M
OSF	111.9 M	94.6 M
Unrestricted	7.7 M	8.2 M
Restricted	9.7 M	7.9 M

AMERICAN MATHEMATICAL SOCIETY

To: Board of Trustees **Date:** April 19, 2018
From: Emily Riley, CFO and Associate Executive Director of Finance and Administration
Subject: Operating Fund Portfolio Management Report

SUMMARY RETURNS

The purpose of this memorandum is to summarize the Society's cash management policies and report on the operating portfolio's investment income performance during 2017. Investment earnings results and other pertinent portfolio information for 2017 and the preceding six years are as follows:

	2017	2016	2015	2014	2013	2012	2011
Money Market Funds	.34%	0.01%	0.01%	0.01%	0.01%	0.04%	0.05%
Vanguard Fixed Income Mutual Funds:							
Short Term Corporate Bond Fund	2.11%	2.82%	1.13%	1.86%	1.05%	4.63%	2%
GNMA Fund	1.97%	1.95%	1.43%	6.76%	(2.13%)	2.45%	7.8%
Long Term US Treasury Fund	8.69%	1.3%	(1.44%)	25.37%	(12.94%)	3.56%	29.4%
Fidelity Floating Rate Fund (12/04)	3.98%	9.92%	(1.17%)	2.47%	3.92%	6.81%	1.7%
Vanguard Convertible Securities	8.66%	6.62%	(1.42%)	2.38%	19.46%	14.47%	(6.8%)
TIPs (April 2005)							
Certificates of Deposit (CD)	1.16%	1.07%	0.92%	0.84%	0.76%	1%	1%
Common Stock	(2.1%)	5.32%	1.9%	5.0%	14.6%	11.5%	12%
Annual total portfolio return	3.3%	2.98%	0%	2.79%	2.0%	3.33%	2.2%
AMS benchmark – Avg 6 month CD rate per Federal Reserve Bank (Discontinued)	N/A	N/A	N/A	N/A	0.27%	0.44%	0.42%
AMS benchmark –BloomBarc US 1-5 Year Gov/Cr Bond Index	1.27%	1.57%	0.97%	1.43%	.82%	2.23%	3.37%
AMS returns versus CD benchmark	N/A	N/A	N/A	N/A	1.63%	2.89%	1.78%
AMS returns versus – Barclays US 1-5 Year Gov/Cr Bond Index	2.03%	1.41%	(0.97%)	1.36%	1.18%	1.1%	(1.17%)
Wkly Average Operating Portfolio (in 000's)	\$12,486	\$13,182	\$13,805	\$13,637	\$12,708	\$12,977	\$13,245
Annual Investment Income (in 000's)	\$413	\$394	\$0.064	\$381	\$263	\$460	\$270

At December 31, 2017 operating fund investments equaled \$13,024,940 which is a decrease of \$2,087,982 from the previous year. The return for the entire portfolio was \$413,372 or 3.3%, which was 2.03% better than the Barclays US 1-5 Year Gov/Cr Bond Index.

The mix of funds in this operating portfolio continues to be an excellent choice due to its diversity. The intermediate or mutual fund portion of the portfolio has experienced an average return of about 4.7% over the past 6 years, which is offset by lower returns from money markets and CD's.

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The weekly average balance in the operating portfolio decreased in 2017 from \$13,183,000 in 2016 to \$12,486,541. The reason for the decrease was because of unusually high cash demands for purchases, such as the MAA Press and related expenses, partially offset by \$1,500,000 transferred from the endowment to offset these costs. In addition, although the AMS had a positive operating income, the spendable income of about \$3,500,000 remained in the long-term portfolio, and will not be transferred until 2018 to operations. The operations of the Society now require that some or all of the cash funds associated with spendable income be transferred to operations for use rather than remaining in the long-term portfolio. This is due to operating expenses of the AMS rising faster than the revenues from sources other than the spendable income.

History of Authorized Investment Vehicles and Limits.

At the May 1996 ECBT meeting it was agreed that the Society should have as a goal an accumulation of current assets such that they exceed current liabilities. To help achieve this objective, at the May 1997 ECBT meeting a plan for the creation of an intermediate term investment portfolio was adopted. Increased limits of \$1,000,000 (to \$4,000,000) in our money market funds, \$1,000,000 (to \$2,000,000) in our Vanguard fixed income funds, and \$500,000 (to \$1,500,000) in Treasury Notes were approved. In addition, a \$1,500,000 combined limit for other mutual funds, consisting of high yield and convertible bond funds, was established at this time.

In May 2000, the limits for money market funds, fixed income funds and the high yield/convertible funds were each increased by \$500,000. At the May 2002 ECBT meeting, the limit on the money market fund was increased to \$5,500,000, primarily to accommodate the larger investment balance carried in the operating portfolio. In May 2004, The Board of Trustees added floating rate bond funds to the authorized investments, with an investment limit of \$2,000,000. In May 2005, the Board changed the limit on money market investments to be 50% of the operating portfolio balance at any point in time, again to accommodate the larger portfolio balance and liquidity needs of the Society.

In December 2013, the Board of Trustees authorized the inclusion of the Endowment Income Stabilization Fund (EISF) in the intermediate-term portion of the operating portfolio. This added approximately \$500,000 to the portfolio. In May 2014, the maximum investment limit for the convertible securities fund investment was raised to 30% of the intermediate-term portion of the operating portfolio.

Recent Portfolio Adjustments.

At the end of 2014, the Society was invested in about \$1.6 million in Certificates of Deposits (CD's). By the end of 2017, the balance invested in CD's had declined to about \$470,000, because operations needed the cash and because interest rates continue to be low. Money market interest remains about as low at 0.74%.

Cash Management at the AMS.

The following rules govern AMS's management of cash:

1. **Availability and Liquidity.** The placement of investments in the operating portfolio is coordinated with the Society's immediate and estimated future cash requirements, which are based on actual and projected revenue and disbursement streams. Cash needs to be available at the appropriate times to cover the operating expenses of the Society as they are incurred - payroll, payroll taxes and other withholdings, and vendor liabilities comprise the bulk of our cash needs. Adequate portfolio liquidity is the ability to turn investments readily into cash without suffering undo loss of principal.
2. **Income.** Cash in excess of immediate operating needs should be invested so as to optimize returns. The Society has intentionally accreted such excess cash, so that the ratio of current assets to current liabilities remains at least 1 to 1. This ratio was 1.19 at December 31, 2016, and 1.18 as of December 31, 2017.
3. **Preservation of principal.** Safety is of prime concern in investments of operating capital. Diversifying investment vehicles and monitoring investment maturity dates and market value fluctuations greatly reduces an investment portfolio's exposure to risk. Maximum allowable positions should and have been established for different types of investments.

Authorized Investments.

The investment vehicles authorized by the Board of Trustees for the operating portfolio are as follows:

- **Certificates of Deposit.** As in prior years, part of the Society's operating investment portfolio has been invested in certificates of deposit, although it has declined in recent years for the reasons discussed above. The weekly balance in certificates of deposit averaged 4.7% of the total portfolio in 2017, and 6% of the total portfolio in 2016.

The AMS generally purchases "jumbo" CD's of federally insured savings institutions and commercial banks that are assigned an acceptable safety rating by a weekly bank rating newsletter. Current investment policies limit the amount of investment in each bank issuing CDs to the Federal Insurance Deposit limit of \$250,000 (exclusive of accrued interest). There is no limit to the total amount of CDs that can be held by the operating investment portfolio.

Issuer	Banks & Savings and Loans
Risk of default	None - federally insured
Risk of market decline	None
Maximum Amount	\$250,000 per bank, unlimited in total

- **Treasury Bills.** T-Bills are convenient to use when we have a large planned expenditure for a predetermined future date, such as contributions to the Economic

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Stabilization Fund; however, better rates are available on alternative forms of short-term operating investments. Treasury Bills have no market risk associated with them because they are backed by the full faith and credit of the US government, are issued for short durations and are highly liquid. Accordingly, there is no limit to the total amount of T-Bills we may hold in our portfolio.

Issuer	U.S. Government
Risk of default	None
Risk of market decline	None if held to maturity
Maximum Amount	Unlimited

- **Cash and repos (repurchase agreements).** The AMS uses a concentration account at Citizens Bank - Massachusetts into which all receipts are automatically deposited and from which all disbursements are made. Under a repurchase agreement, cash above an established minimum balance is "swept" on a daily basis and invested overnight in repurchase agreements. Under a repurchase agreement, the customer (AMS) purchases government securities and the bank agrees to "repurchase" them the following day. The rate earned on these depends on the dollar amount of the repo; it is generally very low in comparison to rates available on other investment vehicles. Interest rates on repurchase agreements have been extremely low for a number of years. Unless one is sweeping large amounts of cash throughout the year, the interest earned does not justify the fees charged to maintain the agreement in place. The AMS has not used this investment vehicle since 1999 and it is not expected to be used in the near future.

Issuer	Citizens Bank - Massachusetts
Risk of default	Minimal
Risk of market decline	None
Maximum Amount	\$1,000,000
Comments	Collateralized by US Gov't securities

- **Money market funds.** The Board of Trustees has authorized a maximum investment of 50% of the balance in the operating portfolio at any point in time. At the end of 2017 the balance in money markets was \$4,798,176, or 36.8% of the entire portfolio, in Vanguard's Federal Money Market fund and in a money market at Citizen's bank. Yields on the funds averaged 0.34% in 2017, and will likely not increase significantly anytime soon. There is little risk to principal because the valuation of the initial investment is generally not subject to change because of its short-term duration. Balances in these funds are usually maintained only at levels needed for short-term operating needs in excess of short-term maturities, or for planned investments to be made in the near future (which avoids the administrative costs of 3 month CD's or T-bills), or to take advantage of rising interest rates, since they generally under-perform alternative authorized investment vehicles.

Issuer	Vanguard and Citizen's Bank
Risk of default	Minimal
Risk of market decline	Very Low
Maximum Amount	50% of operating portfolio balance

- **US Treasury Notes.** The Board of Trustees has authorized a maximum investment of \$1,500,000 in US Treasury Notes. A loss of market value may be incurred on these investments in a rising interest rate environment if funds are needed before maturity and have to be sold; however this risk is slight as the Society’s liquidity is deemed extremely adequate. Treasury Notes can be an attractive investment when interest rates are expected to decline and the yield curve is fairly steep. This has not been the case in recent history.

Issuer	U.S. Government
Risk of default	None
Risk of market decline	None if held to maturity, otherwise value moves inversely to interest rate changes
Maximum Amount	\$1,500,000
Comments	Best used just before interest rates decline

- **Fixed Income (Bond) Mutual funds.** The Board of Trustees has authorized a maximum investment of \$2,500,000 in fixed income mutual funds (initial investment, exclusive of reinvested income and share price increases, with appropriate disclosure to Treasurers and Board), and at the end of 2017 we had \$4,293,815 invested. The initial investment amount is well below the limit. All of these investments are with the Vanguard Group of Valley Forge, PA. A combination of three funds is used: the Short-Term Corporate Bond portfolio, the GNMA portfolio, and the Long-Term US Treasury portfolio.

Issuer (currently used)	The Vanguard Group
Risk of default	Minimal
Risk of market decline	The longer the maturities of underlying investments, the higher the risk.
Maximum Amount	\$2,500,000
Comments	Market value will decline as interest rates rise and increase as rates fall.

Historically, most of the volatility in the Society's short-term portfolio has been the result of market valuation adjustments on these investments (they are marked to market monthly); however, gains or losses technically are not realized on these funds until they are redeemed. The GNMA fund is less affected by interest rate volatility than the Long-Term US Treasury, despite similarity in term length of the underlying securities, as these debt instruments support the housing industry.

The following funds are the included within the Fixed Income (Bond) Mutual funds category:

Vanguard High Grade Short-Term Corporate Bond Fund:

Issuer (currently used)	The Vanguard Group
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Risk of default	Low, due to quality of underlying debt instruments and borrowers
Risk of market decline investments	Low, due to short duration of underlying
Comments	Share price is usually relatively stable; return is determined by recent interest rates, as underlying debt is short duration
2017 return	2.11%

Vanguard GNMA Fund:

Issuer (currently used)	The Vanguard Group
Risk of default	Low – while not backed by the full faith and credit of the US government, it isn't likely that the US government would allow GNMA to default on its obligations
Risk of market decline	Medium, as duration is longer
Comments	Since the GNMA obligations are linked to collateralized mortgage obligations, and mortgage rates tend to change more slowly than other long term rates, this fund is a bit less volatile when interest rates change.
2017 return	1.97%

Vanguard Long-Term US Treasury Fund:

Issuer (currently used)	The Vanguard Group
Risk of default	Low, as most underlying securities are US government direct issues
Risk of market decline	Highly sensitive to interest rate changes, as duration of underlying securities is long-term
Comments	This fund has caused most of the volatility in the Intermediate portfolio; staff mitigates some risk by adjusting investment amount
2017 return	8.69%

- **High Yield and Convertible Bond Mutual funds.** The Board of Trustees has authorized a maximum investment of 30% of the intermediate-term portfolio investments in any combination of high yield bond and convertible securities accounts. At December 31, 2017 the AMS had \$2,047,182 or 26.4% invested in these vehicles, in one convertible securities mutual fund managed by the Vanguard Group. Gains or losses technically are not realized on these funds until they are redeemed, although, for financial statement purposes, the Society records these investments at market.

The initial investment into the fund was \$570,000 in 1998. Also included in the total funds are realized and unrealized gains since 1998. In 2013, \$249,000 in EISF funds

were moved into this fund and in September 2016, EISF funds of \$200,000 were moved out and placed into the long-term portfolio.

Issuer (currently used)	The Vanguard Group
Risk of default	Medium to High
Risk of market decline markets	Sensitive to movements in the equity
Maximum Amount	30% of intermediate-term portfolio
Comments	Total returns often parallel those of equity markets
2017 Return	8.66%

- **Floating Rate Income funds.** The Board of Trustees has authorized a maximum investment of \$2,000,000 in Floating Rate funds. \$1,000,000 was invested in the Fidelity Floating Rate High Income Fund in December 2004. The return for 2017 was 3.98%. Gains or losses technically are not realized on these funds until they are redeemed, although, for financial statement purposes, the Society records these investments at market.

Issuer	Fidelity
Risk of default	Low
Risk of market decline significantly	Low, possibly medium if economy falters
Maximum Amount	\$2,000,000
Comments	The fund is expected to have a relatively stable NAV with yield providing most of the return
2017 Return	3.98%

Summary of Operating Portfolio Investments, December 31, 2017.

<u>Description</u>	<u>Value at 12/31/17</u>	<u>Current Board Limit</u>	<u>Excess over Limit</u>
Money Market Funds	<u>\$4,798,176</u>	50% of total portfolio	NA
Certificates of Deposit	<u>466,759</u>	\$250,000 per inst.	NA
Treasury Notes		1,500,000	NA
<i>Vanguard Bond Funds:</i>			
GNMA Fund	1,751,515		
Short-Term Corp Bond Fund	1,734,208		
LT US Treasury Fund	<u>808,092</u>		
Subtotal	<u>4,293,815</u>	2,500,000 (1)	NA
<i>High Yield and Convertible Funds:</i>			
Vanguard Convertible	<u>2,047,182</u>		
Subtotal	<u>2,047,182</u>	30% of mutual fund investments	NA
<i>Floating Rate Funds:</i>			
Fidelity Floating Rate High Inc			
Subtotal	<u>1,397,032</u>	2,000,000	NA
Common Stock	<u>\$21,976</u>	Unrestricted gifts	
Total	<u>\$13,024,940</u>		

(1) Limit is exclusive of reinvested dividends and share price increases. See discussion above.

Long Range Planning Committee

General Description

- Committee is a standing committee of the ECBT
- Number of members is eight, all serving *ex officio*. Members include the President, Secretary, Treasurer, Executive Director, Board of Trustees' Chair, 2nd and 3rd year Executive Committee members and the third-year elected Trustee. The President serves as chair.

The President Elect/Immediate Past President, the fourth-year Executive Committee member, and fifth year Trustee have standing invitations to attend LRPC meetings.

Principal Activities

Meetings of the LRPC occur twice a year, just prior to every regular ECBT meeting. The LRPC offers a forum for discussion of long range issues and long range planning. The membership of the LRPC represents the AMS's main governing bodies and it includes a mix of short-term and long-term members. As such, it is uniquely positioned to consider issues that fall outside the purview of other bodies or that cut across several committees.

History

The role of the LRPC has evolved over time. In its first few years, it performed major reviews of the Society's activities and it initiated the strategic planning process in the late 1980s. From time to time, it has played a key role in reviewing governance structure and the scope of responsibilities of key governance bodies.

Other Activities

Miscellaneous Information

This committee has been designated at **LEVEL B**.

Note to the Chair

Work done by committees with recurring agenda items may have value as precedent or work done may have historical interest. Because of this, the Council has requested that a central file system be maintained for the Society by the Secretary. Committees are reminded that records of work should be kept and submitted annually to the Secretary for archival purposes. Confidential material should be noted, so that it can be handled in a confidential manner.

Authorization

Created 00/00/90; updated 11/93; 8/24/94; 5/04/95; 2/3/03; 8/09; 12/13 Gen. Desc. per ECBT Nov 2013, Item 2.9.1, Note to Chair, membership

May 2018 ECBT (item 2.4) described the Principle Activities of the Committee.

Past Committees

A list of current and past members is available here:

<http://www.ams.org/about-us/governance/committees/lrpc-past.html>



Financial Statements
American Mathematical Society
December 31, 2017 and 2016



Financial Statements

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Independent Auditors' Report

The Board of Trustees
American Mathematical Society
Providence, Rhode Island

We have audited the accompanying financial statements of American Mathematical Society (the "Society"), which comprise the balance sheets as of December 31, 2017 and 2016, and the related statements of activities and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of American Mathematical Society as of December 31, 2017 and 2016, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Maye Hoffman McCann P.C.

May 11, 2018
Providence, Rhode Island

AMERICAN MATHEMATICAL SOCIETY

Balance Sheets

	<i>December 31,</i>	
	<i>2017</i>	<i>2016</i>
Assets		
Cash	\$ 993,242	\$ 1,131,379
Certificates of deposit	466,759	660,000
Short-term investments	12,699,193	14,600,782
Accounts and contributions receivable, net of allowances of \$272,980 and \$284,980 in 2017 and 2016, respectively	787,938	523,200
Contributions receivable, net	559,702	30,000
Deferred prepublication costs	600,406	594,587
Completed books	1,937,399	1,360,939
Prepaid expenses and deposits	1,780,182	1,632,127
Land, buildings and equipment, net	5,040,855	5,086,655
Long-term investments	162,999,715	140,116,402
Intangible assets, net	1,385,235	-
	<hr/>	<hr/>
Total assets	\$ 189,250,626	\$ 165,736,071
	<hr/> <hr/>	<hr/> <hr/>
Liabilities and Net Assets		
Liabilities:		
Accounts payable and accrued expenses	\$ 4,898,847	\$ 4,190,837
Accrued study leave pay	860,403	736,298
Deferred revenue	12,257,831	12,926,112
Postretirement benefit obligation	8,249,948	7,646,939
	<hr/>	<hr/>
Total liabilities	26,267,029	25,500,186
	<hr/>	<hr/>
Net assets:		
Unrestricted:		
Undesignated	553,959	-
Designated	140,750,524	122,198,789
	<hr/>	<hr/>
	141,304,483	122,198,789
Temporarily restricted	14,185,308	11,667,789
Permanently restricted	7,493,806	6,369,307
	<hr/>	<hr/>
Total net assets	162,983,597	140,235,885
	<hr/>	<hr/>
Total liabilities and net assets	\$ 189,250,626	\$ 165,736,071
	<hr/> <hr/>	<hr/> <hr/>

AMERICAN MATHEMATICAL SOCIETY

Statements of Activities

	<i>Years Ended December 31,</i>	
	2017	2016
Changes in unrestricted net assets:		
Operating revenue, including net assets released from restrictions:		
Mathematical reviews	\$ 12,157,145	\$ 11,877,717
Journals	5,158,276	5,171,245
Books	4,399,106	4,134,261
Dues, services, and outreach	3,515,409	3,378,939
Investment returns appropriated for spending	2,869,500	2,537,418
Other publications-related revenue	672,881	590,102
Grants, prizes and awards	1,379,626	1,473,577
Meetings	1,533,022	1,438,623
Unrestricted contributions	164,105	797,693
Short-term investment income	413,372	394,068
Other	136,171	22,006
	<hr/>	<hr/>
Total operating revenue	32,398,613	31,815,649
Operating expenses:		
Mathematical reviews	8,738,802	8,189,326
Journals	1,568,918	1,488,098
Books	3,785,899	3,629,068
Publications indirect	1,595,382	1,373,895
Customer services, warehousing and distribution	1,804,538	1,615,466
Other publications-related expense	139,817	188,623
Membership, services and outreach	4,701,232	4,804,083
Grants, prizes and awards	1,373,915	1,405,161
Meetings	1,429,055	1,344,479
Governance	653,774	642,822
Member and professional services indirect	1,300,990	1,054,673
General and administrative	4,300,107	4,418,657
Other	32,960	75,888
	<hr/>	<hr/>
Total operating expenses	31,425,389	30,230,239
Excess of operating revenue over operating expenses	973,224	1,585,410
Nonoperating revenues and expenses:		
Investment returns net of investment returns appropriated for spending	18,901,234	8,512,302
Use of board designated funds from Backfile Digitization, Strategic Initiative, and Journal Archive funds	(350,374)	(82,332)
Add back for capitalization of in-house software development labor	169,624	509,745
Depreciation of in-house software development labor	(106,844)	(57,438)
Postretirement benefit-related changes other than net periodic cost	(481,171)	(172,266)
	<hr/>	<hr/>
Change in unrestricted net assets	19,105,693	10,295,421

AMERICAN MATHEMATICAL SOCIETY

Statements of Activities (Continued)

	<i>Years Ended December 31,</i>	
	<i>2017</i>	<i>2016</i>
Changes in temporarily restricted net assets:		
Contributions	\$ 198,105	\$ 205,377
Investment returns	3,061,657	1,549,217
Net assets released from restrictions	(742,243)	(652,351)
Reclassifications for donor redesignations	<u>-</u>	<u>(100,000)</u>
Change in temporarily restricted net assets	<u>2,517,519</u>	<u>1,002,243</u>
Change in permanently restricted net assets:		
Contributions	1,124,500	573,138
Reclassifications for donor redesignations	<u>-</u>	<u>100,000</u>
Change in permanently restricted net assets	<u>1,124,500</u>	<u>673,138</u>
Change in net assets	22,747,712	11,970,802
Net assets, beginning of year	<u>140,235,885</u>	<u>128,265,083</u>
Net assets, end of year	\$ <u>162,983,597</u>	\$ <u>140,235,885</u>

AMERICAN MATHEMATICAL SOCIETY

Statements of Cash Flows

	<i>Years Ended December 31,</i>	
	<i>2017</i>	<i>2016</i>
Cash flows from operating activities:		
Change in net assets	\$ 22,747,712	\$ 11,970,802
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation and amortization	855,813	798,341
Provision for (recovery from) losses on accounts receivable	(7,920)	26,500
Net realized and unrealized gains on long-term investments	(21,546,515)	(9,453,317)
Net realized gains on short-term investments	(413,372)	(394,068)
Loss on disposal of property and equipment	105	-
Contributions restricted for permanent investment	(1,124,500)	(573,138)
Changes in assets and liabilities:		
Accounts receivable	(256,818)	540,707
Contributions receivable	181,048	30,000
Deferred prepublication costs	(5,819)	(26,292)
Completed books	21,129	(69,025)
Prepaid expenses and deposits	(148,055)	406,811
Accounts payable and accrued expenses	438,741	480,142
Deferred revenue	(668,281)	313,021
Postretirement benefit obligation	603,009	325,584
	<u>676,277</u>	<u>4,376,068</u>
Net cash provided by operating activities		
Cash flows from investing activities:		
Sales of short-term investments, net	2,314,961	247,457
Redemptions of certificates of deposit, net	193,241	50,000
Acquisition of MAA program	(1,600,000)	-
Purchases of property and equipment	(799,568)	(1,505,144)
Purchases of long-term investments, net	(1,336,798)	(3,628,464)
	<u>(1,228,164)</u>	<u>(4,836,151)</u>
Net cash used in investing activities		
Cash flows from financing activities:		
Contributions restricted for permanent investment	413,750	573,138
	<u>413,750</u>	<u>573,138</u>
Net cash provided by financing activities		
Net increase (decrease) in cash	(138,137)	113,055
Cash at beginning of year	1,131,379	1,018,324
Cash at end of year	\$ <u>993,242</u>	\$ <u>1,131,379</u>

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies

Description of Organization

The American Mathematical Society (the “Society”) was created in 1888 to further mathematical research and scholarship. It is an international membership organization, currently with approximately 28,000 members. The Society fulfills its mission with publications and professional programs to further the interests of mathematical research, scholarship and education.

The Society is incorporated under the laws of the District of Columbia and follows the provisions of the Uniform Prudent Management of Institutional Funds Act (the “Act”) as enacted.

Basis of Financial Statement Presentation

The financial statements of the Society have been prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America (“GAAP”).

The Society presents information regarding its financial position and activities according to three classes of net assets described as follows:

Unrestricted - All resources over which the governing board has discretionary control. The governing Board of the Society may elect to designate such resources for specific purposes. This designation may be removed at the Board’s discretion.

Temporarily restricted - Resources accumulated through donations or grants for specific operating or capital purposes. Such resources will become unrestricted when the requirements of the donor or grantee have been satisfied through expenditure for the specified purpose or program or through the passage of time.

Permanently restricted - Endowment resources accumulated through donations or grants that are subject to the restriction in perpetuity that the principal be invested. These net assets include the original value of the gift, plus any subsequent additions. Unexpended appreciation on permanently restricted net assets is included in temporarily restricted net assets until appropriated by the Board in accordance with the Act for use unless otherwise instructed by the donor.

Estimates

The preparation of the financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosures of contingent assets and liabilities, as of the dates of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates. Significant estimates include allowances on accounts receivable, releases of donor restrictions, recoverability of deferred publication and completed books costs, useful lives of depreciable assets, impairment of intangible assets and depreciable assets, deferred revenue, postretirement benefit obligations, accrued paid personal leave, estimated liability under AMS points system, and capitalization of in-house software development labor costs.

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies (Continued)

Operations

The Society defines operating income as the net increase in unrestricted net assets derived from the activities related to the accomplishment of its mission, such as publications, programs, meetings and conferences, and member services. Investments appropriated for spending by the Board of Trustees are also presented as operating revenue. Investment returns less amounts appropriated for spending and other non-operational and one time charges that arise are presented as a non-operating item.

Contributions, Gifts and Pledges Receivable

Contributions are recorded as revenue when received or verifiably promised at estimated fair value. Such amounts are recorded as unrestricted, temporarily restricted, or permanently restricted support depending on the existence and nature of any donor restrictions. Contributions are considered to be available for unrestricted use unless specifically restricted by the donor or grantor. The fair value of promises to give are considered a non-recurring fair value measure. Restricted amounts are reclassified to unrestricted net assets upon satisfaction of the donor restriction. Restrictions related to the acquisition of long-lived assets are considered satisfied at the time the asset is acquired.

The Society receives contributed services from its members, principally as volunteer leaders in the governance structure of the Society and as volunteer members of editorial committees for the Society's various publications. The latter category of contributed services qualifies for recognition as income and expense under GAAP, as the members of the editorial committees must possess specialized skills. However, the Society has no practical way of measuring the fair value of the services received from its volunteer editorial committee members, and accordingly, no such estimate is included as revenue or expense in the accompanying financial statements.

Cash

Cash is comprised of bank accounts and petty cash. The Society maintains its cash in bank deposit accounts which, at times, may exceed federally insured limits. The Society monitors its exposure associated with cash in bank deposits and has not experienced any losses in such accounts.

Certificates of Deposit

Certificates of deposit are carried at cost plus accrued interest and are subject to similar risks as noted in cash.

Accounts Receivable

Accounts receivable are stated net of allowances for returns and doubtful accounts in the balance sheets. The allowance for doubtful accounts has been established based on a review of the aged accounts. The factors influencing management's judgment of the adequacy of the allowance for doubtful accounts include historical losses and the status of current collection efforts. The allowance for returns has been established based on historical returns. Trade accounts receivable are written off after it is evident that the collection efforts have been exhausted.

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies (Continued)

Short-Term and Long-Term Investments

Both short-term and long-term investments are carried at fair value. Fair value is determined as per the fair value policies described later in this section. Accordingly, revenue is recorded as fair market value changes in the period in which such fair value changes occur.

Interest, dividends, and net gains or losses on all donor-restricted endowment fund investments are recorded in temporarily restricted net assets net of amounts appropriated for spending. Such amounts are reclassified from temporarily restricted net assets as used for intended purposes.

The Board of Trustees also appropriates from its other funds to support the Society's mission-driven activities. Returns from the board-designated funds, the Operating Support Fund and the Young Scholars Fund, support the operations of the Society under a spending policy.

The investments of the Society are pooled and unitized for accounting purposes. Each fund subscribes to, or disposes of, units on the basis of the fair value per unit at the end of the calendar quarter within which the transactions take place. Investment income, including interest, dividends and realized and unrealized gains and losses, is allocated quarterly based on the number of units held by each fund at the beginning of the quarter.

Fair Value Measurements

The Society reports certain assets and liabilities at fair value on a recurring and non-recurring basis depending on the underlying accounting policy for the particular item. Recurring fair values measures include the Society's investments in marketable securities. These standards require an entity to maximize the use of observable inputs (such as quoted prices in active markets) and minimize the use of observable inputs (such as appraisals or valuation techniques) to determine fair value.

The three levels of the fair value hierarchy are described below:

Level I – Quoted prices are available in active markets for identical instruments as of the reporting date. Instruments which are generally included in this category include listed equity and debt securities publicly traded on a stock exchange.

Level II – Pricing inputs are other than quoted prices in active markets, which are either directly or indirectly observable as of the reporting date, and fair value is determined through the use of models or other valuation methodologies.

Level III – Pricing inputs are unobservable for the instrument and include situations where there is little, if any, market activity for the instrument. The inputs into the determination of fair value require significant management judgment or estimation.

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies (Continued)

Fair Value Measurements (Continued)

In some instances, the inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such instances, an instrument's level within the fair value hierarchy is based on the lowest level of input that is significant to the fair value measurement.

Market price is affected by a number of factors, including the type of asset or liability and the characteristics specific to the asset or liability. Assets or liabilities with readily available active quoted prices or for which fair value can be measured from actively quoted prices generally will have a higher degree of market price observability and a lesser degree of judgment used in measuring fair value. It is reasonably possible that changes in values of these assets or liabilities will occur in the near term and that such changes could materially affect amounts reported in these financial statements. For more information on the fair value of the Society's financial assets, see Note 5 - Investments.

Deferred Prepublication Costs

Prepublication costs, consisting of translation, editorial, composition and proofreading costs, are deferred until publication. Upon publication, prepublication costs related to books are transferred into completed books inventory and prepublication costs related to journals are expensed, effectively matching subscription revenue for such journals.

Completed Books

Publication costs of books, consisting of paper, printing, and prepublication costs, are accumulated and recorded as completed books. Costs are amortized and charged to expense generally over five years. The majority of costs are allocated to the first year after completion based on management's assessment of historical sales patterns. This method approximates completed books being recorded at the lower of cost or market.

Land, Buildings, Equipment and Accumulated Depreciation

Land, buildings, and equipment are recorded at cost less accumulated depreciation. Depreciation is provided over the estimated useful lives of the assets using straight-line or accelerated methods.

<i>Asset Classifications</i>	<i>Estimated Useful Life</i>
Land improvements	10 - 20 years
Buildings and improvements	10 - 35 years
Furniture, equipment and software	3 - 10 years
Transportation equipment	3 - 15 years

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies (Continued)

Land, Buildings, Equipment and Accumulated Depreciation (Continued)

The Society accounts for costs incurred for software developed or obtained for internal use including capitalizing costs incurred during the application development stage with amortization on a straight-line basis beginning when the computer software is ready for its intended use.

Intangible Assets, Net

Intangible assets consist of tradename and royalties and perpetual license agreements. Intangible assets with identifiable lives are amortized on a straight-line basis over their estimated lives of ten years. Perpetual license agreements are not amortized.

In accordance with the standards for other intangible assets, the Society evaluates unamortizable intangible assets on an annual basis for potential impairment. No impairment was identified at December 31, 2017.

Revenue Recognition and Deferred Revenue

Advanced collections for mathematical reviews, membership dues and other subscriptions are deferred and recorded as income over the related membership period or subscription period. Subscriptions include traditional printed and electronic media. Meetings income is reported as revenue on the date of the event. Advance sales are reported as deferred revenue.

Books, journals and other publications revenues are recorded upon shipment, less an estimate for returns.

Grant income from government funded arrangements is recorded as revenue as costs are incurred under the related arrangement. Accounting for grant income from other sources is evaluated for proper recognition with certain grants being recorded as revenue as related costs are incurred while others are recorded as revenue upon receipt.

The Society receives various grants that are subject to audit by the grantors or their representatives. Such audits could result in requests for reimbursement for expenditures disallowed under the terms of the grant; however, management believes that these disallowances, if any, would be immaterial.

Net assets released from restrictions are classified in the respective revenue accounts on the statements of activities.

Conditional contributions received from donors are deferred and recorded as contributions revenue once the donor's conditions are substantially met. There was \$55,000 and \$275,000 in conditional contributions included in deferred revenue at December 31, 2017 and 2016, respectively.

Investment returns are reflected in the statements of activities based on the fair value of the underlying securities with such changes being reflected in the appropriate net asset category as the changes occur. Interest and dividend income is recognized when earned.

Notes to Financial Statements

Note 1 - Description of Organization and Summary of Significant Accounting Policies (Continued)

Revenue Recognition and Deferred Revenue (Continued)

The Society has a program of awarding points to volunteers who perform reviews, which are referred to as the AMS point-system. Under the AMS points system, each point awarded to volunteers is equivalent to \$1 dollar. These points have no cash value and expire on December 31, two years after the year they are issued. These points can be redeemed prior to their expiration date for purchases of publications or applied towards membership dues, with some restrictions. The estimated liability for future redemptions based on unexpired points earned to date, net of estimated breakage, totaled approximately \$554,638 and is included in accounts payable and accrued expenses at December 31, 2017. The total amount redeemed totaled \$267,621 and \$205,949 for the years ended December 31, 2017 and 2016, respectively.

Service Fees

The Society provides various supporting services to other unaffiliated organizations for a service fee. These fees are included in other publications-related revenue on the statements of activities in the amount of \$262,617 and \$299,680 for the years ended December 31, 2017 and 2016, respectively. Certain transactions flow through the Society's financial accounts; however, revenues and expenses of such organizations are not included in the financial statements of the Society.

Income Tax Status

The Society is recognized by the Internal Revenue Service as an organization described under Section 501(c)(3) of the Internal Revenue Code and is generally exempt from Federal and state income taxes on related income.

Uncertain Tax Positions

The Society accounts for the effect of any uncertain tax positions based on a "more likely than not" threshold to the recognition of the tax positions being sustained based on the technical merits of the position under scrutiny by the applicable taxing authority. If a tax position or positions are deemed to result in uncertainties of those positions, the unrecognized tax benefit is estimated based on a "cumulative probability assessment" that aggregates the estimated tax liability for all uncertain tax positions. The Society has identified its tax status as a tax-exempt entity and its determinations to classify income as related and unrelated as its only significant tax positions; however, the Society has determined that such tax positions do not result in an uncertainty requiring recognition. The Society is not currently under examination by any taxing jurisdiction. The Society's Federal and state tax returns are generally open for examination for three years following the date filed.

Functional Expense Allocation

Costs have been allocated to functional classifications based on percentage of effort, usage, square footage and other criteria.

Fundraising costs for the years ended December 31, 2017 and 2016 were \$428,696 and \$404,307, respectively, and are included within membership, services and outreach in the statements of activities.

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 2 - Acquisition

On September 29, 2017, the Society acquired certain assets and licenses of a book program from an association for \$1,993,374. The acquisition of this program was to expand on and compliment the Society's current offerings. In accordance with the purchase and sales agreement, \$1.6 million was paid at the closing, \$193,374 is to be paid upon delivery of certain reprinted inventory and \$200K is due eighteen months after the closing date. At December 31, 2017 \$393,374 is in accounts payable and accrued expenses related to this acquisition. The results of operations from this book program from the acquisition date to December 31, 2017 are included in the statement of activities.

The purchase price allocation to each major asset acquired at the acquisition dated determined by management are as follows:

Inventory	\$	597,589
Trademark/royalty licensing agreement		421,987
Perpetual rights		<u>973,798</u>
Total assets acquired	\$	<u><u>1,993,374</u></u>

As part of the acquisition, the Society incurred \$129,301 in non-capitalizable transaction costs which are included in the statement of activities for the year ended December 31, 2017.

Note 3 - Contributions Receivable

	2017	2016
Unconditional promises expected to be collected in:		
Less than one year	\$ 114,250	\$ 10,000
One to five years	422,750	20,000
Greater than five years	<u>101,500</u>	<u>-</u>
	638,500	30,000
Less present value discount	<u>78,798</u>	<u>-</u>
Contributions receivable, net	<u><u>\$ 559,702</u></u>	<u><u>\$ 30,000</u></u>

Notes to Financial Statements

Note 4 - Land, Buildings, and Equipment, Net

The following comprise the Society's investments in land, buildings, and equipment as of December 31:

	2017	2016
Land and improvements	\$ 422,507	\$ 422,507
Buildings and improvements	8,440,905	7,992,803
Furniture, equipment and software	7,700,983	6,929,079
Transportation equipment	71,854	93,449
Buildings, equipment and software in progress	<u>-</u>	<u>451,837</u>
	16,636,249	15,889,675
Less accumulated depreciation	<u>(11,595,394)</u>	<u>(10,803,020)</u>
	<u>\$ 5,040,855</u>	<u>\$ 5,086,655</u>

During 2017, the Society disposed of certain land, buildings and equipment with a cost of \$52,994 and accumulated depreciation of \$52,889.

Note 5 - Investments

The following table summarizes the Society's investments as of December 31:

	2017	2016
Fixed income mutual funds	\$ 5,690,848	\$ 6,182,150
Convertible securities mutual fund	2,047,182	2,168,482
Domestic corporate stock	21,976	21,681
Money market mutual funds	<u>4,939,187</u>	<u>6,228,469</u>
Total short-term investments	<u>12,699,193</u>	<u>14,600,782</u>
Fixed income mutual funds	27,220,608	26,132,129
Equity mutual funds:		
Broad U.S. market stock mutual fund	115,015,069	96,706,292
Domestic real estate investment trusts	5,767,161	5,495,839
Non U.S. developed and emerging markets stock mutual fund	<u>14,996,877</u>	<u>11,782,142</u>
Total long-term investments	<u>162,999,715</u>	<u>140,116,402</u>
Total investments	<u>\$ 175,698,908</u>	<u>\$ 154,717,184</u>

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 5 - Investments (Continued)

Short-term and long-term investments are classified as Level I in the fair value hierarchy because of the Society's ability to obtain quoted prices at the reporting date and redeem its interest on a daily basis.

The Society's long-term investments are segregated into four separate portfolios (including mutual funds), each with its own investment manager and investment objective. The overall investment strategy is determined by the Investment Committee of the Board of Trustees and is approved by the Board of Trustees annually. The primary investment objective of the long-term investment portfolio is an average real total return (net of investment fees and the effects of consumer inflation) of at least 4% over the long term. To achieve this result, the investment portfolio is allocated approximately 83% to equity investments and 17% to fixed income investments. The equity investments are further diversified into domestic, international, and real estate holdings. Additionally, the entire portfolio is diversified across economic sectors, geographic locations, industries, and size of investees.

The following schedule summarizes the long-term investment return and its classification in the accompanying statements of activities for the years ended December 31:

	<i>2017</i>	<i>2016</i>
Dividends and interest, net of management fees	\$ 3,285,876	\$ 3,145,620
Net realized and unrealized gains	<u>21,546,515</u>	<u>9,453,317</u>
Investment returns	<u>24,832,391</u>	<u>12,598,937</u>
Less investment returns classified as temporarily restricted	<u>(3,061,657)</u>	<u>(1,549,217)</u>
Less investment appropriated for spending:		
Spendable income from Operations Support Fund	(2,831,000)	(2,500,000)
Spendable income from Young Scholars & Baxter Fund	<u>(38,500)</u>	<u>(37,418)</u>
Sub-total	<u>(2,869,500)</u>	<u>(2,537,418)</u>
Investment returns less investment returns appropriated for spending	\$ <u>18,901,234</u>	\$ <u>8,512,302</u>

Management fees are incurred directly by mutual funds which the Society has holdings; such returns reported by the funds are net of such costs, and accordingly, such fees are embedded within the investment returns.

Under certain unusual circumstances, mutual funds may alter redemption provisions of their investment vehicles which could impact the liquidity of funds. No such changes to redemption provisions have occurred in 2017 or 2016.

Notes to Financial Statements

Note 6 - Intangible Assets

In connection with the acquisition described in Note 2, the Society recorded amortizable intangible assets consisting of tradenames and royalties, and unamortizable intangible assets for the perpetual rights acquired. Tradenames and royalties are being amortized over ten years. Amortization expense for the year ended December 31, 2017 was \$10,550. Amortization expense for each of the next ten years totals approximately \$42,000 per year.

Note 7 - Accrued Study Leave Pay

Certain employees of the Society receive vested rights to study leave pay based upon salary and years of service. The Society provides for this obligation over the related years of the employees' service. The provision for the study leave pay charged to expense totaled \$193,451 and \$224,265 in 2017 and 2016, respectively.

Note 8 - Pension and Postretirement Benefits

The Society has contributory retirement plans (the "Plans") covering substantially all full-time employees. The Plans are administered by, and related assets are maintained with, Teachers Insurance and Annuity Association and College Retirement Equities Fund. Under the Plans, the Society contributes 9.5% of eligible compensation (with higher amounts for employees earning in excess of the social security second bend point). The Society's retirement expenses for the Plans totaled \$1,392,512 and \$1,383,769 in 2017 and 2016, respectively. In addition, the Society offers an employee only plan which allows for additional contributions upon election of said employee.

The Society sponsors a defined benefit postretirement medical plan that covers substantially all full-time employees. Under the plan provisions, employees who retire from the Society at age 62 or older with at least 12 years of service are eligible for benefits under the plan upon the attainment of age 65. Plan benefits consist of health insurance coverage under a Medicare Supplement Plan and reimbursement of Medicare Part B premiums. Employees who retire before age 62 may qualify for coverage under the plan according to a longer service requirement schedule established by the Society. Spouses of eligible retirees are not covered. The plan is noncontributory and is unfunded.

The plan limits the annual benefit per retiree to \$4,000 for reimbursement of actual premiums paid for Medicare Supplement insurance and any Medicare coverage premiums. The plan was frozen effective June 30, 2006 whereby employees hired after that date are not eligible to participate in the plan. There is no provision for this maximum benefit amount to increase over time.

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 8 - Pension and Postretirement Benefits (Continued)

Net postretirement benefit cost for the years ended December 31, 2017 and 2016 consisted of the following components:

	<i>2017</i>	<i>2016</i>
Service cost	\$ 122,149	\$ 118,125
Interest cost	304,224	301,411
Amortization of prior service credit, post-2007 amendment	(246,258)	(246,258)
Amortization of net experience losses	<u>159,300</u>	<u>176,200</u>
Net postretirement benefit cost	<u>\$ 339,415</u>	<u>\$ 349,478</u>

The prior service cost (credit) and net loss (gain) expected to be recognized as components of net periodic postretirement benefit cost for the year ending December 31, 2017 are approximately (\$187,200) and \$245,939, respectively.

The following table reconciles the plan's funded status with the amounts presented in the Society's financial statements at December 31:

	<i>2017</i>	<i>2016</i>
Projected postretirement benefit obligation, beginning of the year (and funded status)	\$ 7,646,939	\$ 7,321,355
Service and interest cost for the year	426,373	419,536
Benefits paid	(219,658)	(173,527)
Actuarial (gain) loss recognized in the year incurred	<u>396,294</u>	<u>79,575</u>
Projected postretirement benefit obligation, end of year	<u>\$ 8,249,948</u>	<u>\$ 7,646,939</u>
Net liability recognized in the balance sheet	<u>\$ 8,249,948</u>	<u>\$ 7,646,939</u>

Notes to Financial Statements

Note 8 - Pension and Postretirement Benefits (Continued)

The following table presents additional information relating to the plan for the years ended December 31:

Discount rate	3.4% (2017)	4.0% (2016)
Healthcare cost trend rate assumed for next year	Not applicable	
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	Not applicable	
Year that the rate reaches the ultimate trend rate	Not applicable	

The expected future benefit payments under plan provisions for the next ten years are as follows:

Years ending December 31:

2018	\$	277,040
2019		370,391
2020		379,425
2021		412,549
2022		427,605
2023-2027		2,401,015

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 9 - Designated Unrestricted Net Assets

The Board of Trustees of the Society has designated components of unrestricted net assets to support certain purposes. All such designated funds within unrestricted net assets are supported by the unrestricted portion of the long-term investment portfolio. The Economic Stabilization Fund is designated to provide support for the Society in future years should an unexpected need arise. The Society has a mathematical computation to rebalance the Economic Stabilization Fund. Such amounts are adjusted annually to comply with those principles. The Operations Support Fund is designated to provide current operating support to the Society via use of a 4% spending rate applied to the average of the prior four-year ending values of the fund. The Journal Archive Fund is designated to accumulate funds to support changes that may be necessary for electronic files to be available for future use due to as yet unforeseen technological changes. The Young Scholars Fund was created by the Board of Trustees in 2000 to augment the funds in Epsilon Fund for Young Scholars, a true endowment fund that supports programs for high school mathematics students. The Backfile Digitization Fund is expected to be used in future years for the digitization of the Society’s backfile collection of more than 3,000 published books. The Strategic Initiative Fund was set aside in 2015 to fund expenses related to strategic planning implementation.

The following comprises the balances in these designated funds within unrestricted net assets as of December 31:

	<i>2017</i>	<i>2016</i>
Spending subject to spending policy:		
Operations Support Fund	\$ 111,973,274	\$ 94,606,082
Young Scholars Fund	1,027,718	896,980
Kathleen Baxter Memorial Fund	320,396	281,288
Spending subject to Board approval:		
Economic Stabilization Fund	25,122,645	24,163,443
Backfile Digitization Fund	80,702	68,401
Strategic Initiative Fund	120,822	310,657
Journal Archive Fund	<u>2,104,967</u>	<u>1,871,938</u>
Total	\$ <u>140,750,524</u>	\$ <u>122,198,789</u>

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 10 - Temporarily Restricted Net Assets

Temporarily restricted net assets consist of amounts restricted by donors for the following purposes as of December 31:

	2017	2016
Restricted purpose:		
Prizes and scholarships	\$ 1,178,304	\$ 1,164,927
Lectures and symposia & Early Career Funding	589,636	243,197
Epsilon awards	70,360	97,377
Graduate student travel program	60,216	57,829
Translation projects	44,658	24,658
Mathematical reviews projects and subscriptions	29,265	30,000
Other miscellaneous	49,406	167,498
Unspent spendable income from unrestricted use true endowment funds	1,670,640	131,317
Accumulated gains on true endowment gifts	<u>10,492,823</u>	<u>9,750,986</u>
Total	\$ <u>14,185,308</u>	\$ <u>11,667,789</u>

Net Assets Released from Restrictions

Net assets are released from temporary donor restrictions by incurring expenses satisfying the restricted purposes or by occurrence of events specified by the donors. The corresponding operating revenue released is presented on the statements of activities in the respective category. Net asset releases were as follows for the years ended December 31:

	2017	2016
Prizes and scholarships	\$ 105,648	\$ 118,005
Epsilon awards	132,000	89,342
Graduate student travel program	97,613	89,715
Lectures and symposia and Early Career Funding	43,674	48,199
Fellowships	49,669	39,000
National Mathematics Game	20,553	21,264
Mathematical reviews projects and subscriptions	9,258	15,293
Other miscellaneous	16,006	16,230
Releases from unrestricted use true endowment funds	<u>267,822</u>	<u>215,303</u>
Total	\$ <u>742,243</u>	\$ <u>652,351</u>

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 11 - Permanently Restricted Net Assets

The Society has two types of donor-restricted endowments: gifts with no donor designations as to the use of income derived therefrom and gifts whose donors have designated a specific purpose in the gift instrument.

These endowments consisted of the following at December 31:

	<i>2017</i>	<i>2016</i>
Endowment without donor designation on use of income	\$ 1,580,135	\$ 1,578,101
Endowment with donor designation on use of income:		
Prizes	1,327,923	1,292,159
Scholarships and fellowships	664,891	257,213
Next Generation Fund (NGF)	431,029	403,000
Symposia and lectures	307,729	305,595
China collaboration	366,757	366,757
Epsilon Fund for Young Scholars	2,271,243	2,166,482
Pledges receivable	544,099	-
	<u>\$ 7,493,806</u>	<u>\$ 6,369,307</u>

Note 12 - Endowment

The Society's endowment consists of approximately 30 individual funds established for a variety of purposes, including both donor-restricted endowment funds (true endowment) and funds designated by the Board of Trustees to function as endowments. Net assets associated with endowment funds, including funds designated by the Board of Trustees to function as endowments, are classified and reported based on the existence or absence of donor-imposed restrictions.

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 12 - Endowment (Continued)

The following table summarizes the changes in endowment net assets for the year ended December 31, 2017:

	<i>Unrestricted</i>	<i>Temporarily Restricted</i>	<i>Permanently Restricted</i>	<i>Total</i>
Endowment net assets, January 1, 2017	\$ 122,198,789	\$ 9,750,986	\$ 6,369,307	\$ 138,319,082
Donor-restricted contributions	-	-	580,400	580,400
Reclassifications for donor redesignations	-	-	-	-
Investment income	21,771,611	2,819,198	-	24,590,809
Release of endowment net asset restrictions	(3,219,874)	(577,361)	-	(3,797,235)
Release of prior accumulated earnings	-	(1,500,000)	-	(1,500,000)
	<u>-</u>	<u>(1,500,000)</u>	<u>-</u>	<u>(1,500,000)</u>
Endowment net assets, December 31, 2017	\$ <u>140,750,526</u>	\$ <u>10,492,823</u>	\$ <u>6,949,707</u>	\$ <u>158,193,056</u>

The following table summarizes the changes in endowment net assets for the year ended December 31, 2016:

	<i>Unrestricted</i>	<i>Temporarily Restricted</i>	<i>Permanently Restricted</i>	<i>Total</i>
Endowment net assets, January 1, 2016	\$ 111,782,413	\$ 8,813,560	\$ 5,696,169	\$ 126,292,142
Donor-restricted contributions	-	-	573,138	573,138
Reclassifications for donor redesignations	-	-	100,000	100,000
Investment income	11,049,745	1,425,730	-	12,475,475
Release of endowment net asset restrictions	(2,619,749)	(488,304)	-	(3,108,053)
Additions from operations	1,986,380	-	-	1,986,380
	<u>1,986,380</u>	<u>-</u>	<u>-</u>	<u>1,986,380</u>
Endowment net assets, December 31, 2016	\$ <u>122,198,789</u>	\$ <u>9,750,986</u>	\$ <u>6,369,307</u>	\$ <u>138,319,082</u>

AMERICAN MATHEMATICAL SOCIETY

Notes to Financial Statements

Note 12 - Endowment (Continued)

Interpretation of Relevant Law

The portion of the donor-restricted endowment fund that is not classified in permanently restricted net assets is classified as temporarily restricted net assets until those amounts are appropriated for expenditure by the Society in a manner consistent with the standards of prudence prescribed by the Act. In accordance with the Act, the Society considers the following factors in making a determination to appropriate or accumulate donor-restricted endowment funds:

1. The duration and preservation of the fund
2. The purposes of the Society and the donor-restricted endowment fund
3. General economic conditions
4. The possible effect of inflation and deflation
5. The expected total return from income and the appreciation of investments
6. Other resources of the Society
7. The investment policies of the Society

Funds with Deficiencies

From time to time, the fair value of assets associated with individual donor-restricted endowment funds may fall below the level that the donor or the Act requires the Society to retain as a fund of perpetual duration. There were no deficiencies of this nature in 2017 or 2016.

Return Objectives and Risk Parameters

The Society has adopted investment and spending policies for endowment assets that attempt to provide a predictable stream of funding to programs supported by its endowment while seeking to maintain the purchasing power of the endowment assets. Endowment assets include those assets of donor-restricted funds that the Society must hold in perpetuity or for a donor-specified period as well as board-designated funds. Under this policy, as approved by the Board of Trustees, the endowment assets are invested in a manner that is intended to produce an average annual real rate of return of approximately 4% over the long term. Actual returns in any given year may vary from this amount.

Strategies Employed for Achieving Objectives

To satisfy its long-term rate-of-return objectives, the Society relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends). The Society targets a diversified asset allocation that places emphasis on investments in equities (allocation in the portfolio between 65% to 85%, with foreign equities comprising no more than 25% of the equity total), fixed income securities (allocation in the portfolio between 15% to 25%) and alternatives (currently real estate investment trusts and emerging markets investments with an allocation in the portfolio of no more than 10%) to achieve its long-term return objectives within prudent risk constraints.

Notes to Financial Statements

Note 12 - Endowment (Continued)

Spending Policy and How the Investment Objectives Relate to Spending Policy

The Society has a policy of appropriating for distribution each year 4% of its true endowment funds' average fair value using an average determined prior to the beginning of the fiscal year of which the spending policy relates based on the prior four fiscal year end balances. The Board-Designated Operations Support and Young Scholars Fund's spending is calculated the same way. In establishing these policies, the Society considered the expected return on its endowment. Accordingly, the Society expects the current spending policy to allow its endowment to maintain its purchasing power by growing at a rate, on average over time, equal to planned payouts. Additional real growth will be provided through new gifts and any excess investment return.

Note 13 - Leases

The Society leases certain facilities under short-term arrangements that are renewable annually based on notice.

Note 14 - Subsequent Events

The Society has evaluated subsequent events through May 11, 2018, the date on which the financial statements were available to be issued. There were no subsequent events to be disclosed based on this evaluation.