American Mathematical Society

COUNCIL MINUTES

Atlanta, Georgia

03 January 2017 at 2:30 p.m.

www.ams.org

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Prepared March 1, 2017

The Council of the Society met at 2:30 p.m. (EST) on Tuesday, 03 January 2017, in Imperial Ballroom B, located on the Marquis Level of the Marriott Marquis Atlanta, 265 Peachtree Center Avenue, Atlanta, GA 30303. There was a refreshment break at 4:43 p.m. and a Council dinner at 7:15 p.m.

These are the minutes of the meeting. Although several items were discussed in Executive Session, all actions taken are reported in these minutes. The Executive Session began at 5:50 p.m. and ended at 645 p.m.

Conflict of Interest Policy for Officers and Committee Members

(as approved by the January 2007 Council)

A conflict of interest may exist when the personal interest (financial or other) or concerns of any committee member, or the member's immediate family, or any group or organization to which the member has an allegiance or duty, may be seen as competing or conflicting with the interests or concerns of the AMS.

When any such potential conflict of interest is relevant to a matter requiring participation by the member in any action by the AMS or the committee to which the member belongs, the interested party shall call it to the attention of the chair of the committee and such person shall not vote on the matter. Moreover, the person having a conflict shall retire from the room in which the committee is meeting (or from email or conference call) and shall not participate in the deliberation or decision regarding the matter under consideration.

The foregoing requirements shall not be construed as preventing the member from briefly stating his/her position in the matter, nor from answering pertinent questions of other members.

When there is a doubt as to whether a conflict of interest exists, and/or whether a member should refrain from voting, the matter shall be resolved by a vote of the committee, excluding the person concerning whose situation the doubt has arisen.

Minutes of the meeting of the committee shall reflect when the conflict of interest was disclosed and when the interested person did not vote.

AMS Policy on a Welcoming Environment

(as approved by the January 2015 Council)

The AMS strives to ensure that participants in its activities enjoy a welcoming environment. In all its activities, the AMS seeks to foster an atmosphere that encourages the free expression and exchange of ideas. The AMS supports equality of opportunity and treatment for all participants, regardless of gender, gender identity or expression, race, color, national or ethnic origin, religion or religious belief, age, marital status, sexual orientation, disabilities, or veteran status.

Harassment is a form of misconduct that undermines the integrity of AMS activities and mission.

The AMS will make every effort to maintain an environment that is free of harassment, even though it does not control the behavior of third parties. A commitment to a welcoming environment is expected of all attendees at AMS activities, including mathematicians, students, guests, staff, contractors and exhibitors, and participants in scientific sessions and social events. To this end, the AMS will include a statement concerning its expectations towards maintaining a welcoming environment in registration materials for all its meetings, and has put in place a mechanism for reporting violations. Violations may be reported confidentially and anonymously to 855-282-5703 or at `http://www.mathsociety.ethicspoint.com`. The reporting mechanism ensures the respect of privacy while alerting the AMS to the situation. For AMS policy statements concerning discrimination and harassment, see:

`www.ams.org/about-us/governance/policy-statements/anti-harassment-policy`.

Contents

8   Adjournment   40

Attachments

1 Call to Order

The meeting was called to order at 2:30 pm (EST). President Robert Bryant, who presided throughout, called on members and guests to introduce themselves. Members present in addition to Bryant were Alejandro Adem, Matthew Baker, Georgia Benkart, Brian Boe, Susanne Brenner, Henry Cohn, Alicia Dickenstein, Erica Flapan, Sergey Fomin, Pamela Gorkin, Jane Hawkins, Tara Holm, Carlos Kenig, Michel Lapidus, Michael Larsen, Kristin Lauter, Anna Mazzucato, Susan Montgomery, Zbigniew Nitecki, Ken Ono, Alan Reid, Kenneth Ribet, Carla Savage, Ronald Solomon, Jennifer Taback and Steven Weintraub. Members not in attendance were Jesús De Loera, Richard Durrett, Lisa Fauci, Edward Frenkel, Susan Friedlander, Wen-Ching Winnie Li, Mary Pugh, Peter Sarnak, and Michael Singer.

Among the guests present were Thomas Barr (AMS Special Projects Officer), Edward Dunne (AMS Executive Editor for Mathematical Reviews), Sergei Gelfand (AMS Publisher), Helen Grundman (AMS Director of Education and Diversity), Robert Harington (AMS Associate Executive Director for Publishing), Darla Kremer (Program Director, Office of the AMS Secretary), Anatoly Libgober (Committee on Publications Chair), Robin Marek (AMS Development Director), Katharine Merow (*Notices* Assistant), Irina Mitrea (Newly Elected Council Member), Frank Morgan (*Notices* Chief Editor), Douglas Mupasiri (Committee on Education Chair), Catherine Roberts (AMS Executive Director), Sarah Salmon (AMS Graduate Student Blog Chief Editor), David Savitt (Committee on the Profession Chair), Karen Saxe (AMS Associate Executive Director for the Washington Division), Joseph Silverman (Board of Trustees Member), T. Christine Stevens (AMS Associate Executive Director for Meetings and Professional Services), Francis Su (MAA President) and Talitha Washington (Newly Elected Council Member).

1.1 Opening of the Meeting and Introductions

1.2 2016 AMS Elections

The Society conducted its annual elections in the fall of 2016. Except for the new members of the Nominating Committee, those elected took office on 01 February 2017. The newly elected members of the Council, the Editorial Boards Committee, the Nominating Committee, and the Board of Trustees are listed under Item 4.1.

1.3 List of Council Members

A list of 2016 Council members can be found in Attachment A and a list of 2017 Council members can be found in Attachment B. Newly elected Council members were granted privileges of the floor (but without voting privileges) at this Council meeting. Brian Boe was the voting Associate Secretary.

1.4 Retiring Members

The terms of Robert Bryant[1] as President, Kenneth Ribet[2] as President Elect, Susan Montgomery as Vice President, and Rick Durrett, Lisa Fauci, Michael Larsen, Kristin Lauter, and Jennifer Taback[3] as Council Members at Large ended on 31 January 2017. Tara Holm's term as a member of the Executive Committee will end on 28 February 2017. This was their final Council meeting in their current positions.

The Secretary received unanimous consent to send thanks to each of them for sharing their wisdom with the Society and the Council and for their service to the mathematical community.

2 Minutes

2.1 Minutes of the April 2016 Council

The minutes of the April 2016 Council were distributed by email and are posted here: `http://www.ams.org/about-us/governance/council/council-minutes0416.pdf`.

The Council approved the April 2016 minutes as distributed.

2.2 Minutes of the Executive Committee and Board of Trustees (ECBT) Meetings

The ECBT met in May, 2016, and again in November, 2016, in Providence, Rhode Island. The minutes of these meetings are considered part of the minutes of the Council. They are available at:
`http://www.ams.org/about-us/governance/ecbt-meetings/sec-ecbt-minutes`.

2.3 Minutes of Business by Mail

The Council conducted business by mail since the last Council meeting. Minutes for this business are attached (Attachment C). The action taken was to consent to the appointment of **Catherine A. Roberts** (College of the Holy Cross) as Executive Director of the AMS.

The Council approved the minutes of the Council Business by Mail.

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[1]Bryant will remain on the Council as Immediate Past President
[2]Ribet will remain on the Council as President
[3]Taback will remain on Council as a member of the Executive Committee.

3 Consent Agenda

Items on the Consent Agenda are considered approved unless brought to the floor for discussion, in which case they are approved in the ordinary manner and recorded elsewhere in the Council Minutes. **None of the following items were brought to the floor for discussion, so were approved as stated.**

3.1 Charge to the Cole Prize Committee

The AMS awards two Cole Prizes, one in Algebra and one in Number Theory. Since 2002, each prize has been awarded triennially. The following paragraph from the charge to the Cole Prize Committee does not make clear that these are separate prizes (with distinct selection committees) and incorrectly states the award cycle.

Principal Activities:

There are two awards, one made every three years at the Annual (January) Meeting. The award is made for a notable research memoir in algebra or number theory which has appeared in the last six years. Either the recipient is a member of the Society or the memoir is published in a recognized North American journal.

CoProf recommended that the first paragraph under "Principal Activities" of the charge to the Cole Prize Committee be replaced by the following three paragraphs:

Principal Activities:

There are two awards, the Cole Prize in Algebra and the Cole Prize in Number Theory.

The Cole Prize in Algebra is made every three years at the Annual (January) Meeting (2003, 2006, 2009, . . .). The award is made for a notable research memoir in algebra which has appeared in the last six years. Either the recipient is a member of the Society or the memoir is published in a recognized North American journal.

The Cole Prize in Number Theory is made every three years at the Annual (January) Meeting (2002, 2005, 2008, . . .). The award is made for a notable research memoir in number theory which has appeared in the last six years. Either the recipient is a member of the Society or the memoir is published in a recognized North American journal.

3.2 Selection Committee and Charge for The Bertrand Russell Prize of the AMS

The Council of January 2016 approved the creation of the Bertrand Russell Prize of the AMS. In September of 2016, CoProf approved the charge to the Prize Selection Committee and in November of 2016, the Board of Trustees approved the amount and frequency of the prize.

The Secretary and CoProf recommended that Council create a selection committee for the Bertrand Russell Prize of the AMS with the following charge:

The Bertrand Russell Prize of the AMS

General Description

- Committee is standing
- Number of members is three
- Term is three years
- Members are appointed by the President

Prize Description

The Bertrand Russell Prize of the AMS was established in 2016 by Thomas Hales. The prize looks beyond the confines of our profession to research or service contributions of mathematicians or related professionals to promoting good in the world. It recognizes the various ways that mathematics furthers fundamental human values.

The mission of the American Mathematical Society includes

- Promoting the uses of mathematical research,
- Advancing the status of the profession of mathematics, and
- Fostering an awareness and appreciation of mathematics and its connections to other disciplines and everyday life.

This prize is designed to promote these goals. Mathematical contributions that further world health, our understanding of climate change, digital privacy, or education in developing countries, are some examples of the type of work that might be considered for the prize.

The current prize amount is $5000, awarded every three years.

Principal Activities

The committee recommends a winner and communicates this recommendation to the Secretary for approval by the Executive Committee of the Council. The committee recommendation should include a written citation for the nominee.

3.3 Charge to the Mathematics of Computation Editorial Committee

Book reviews in the area of computational mathematics are now covered by *Bulletin of the AMS* and are no longer published in *Mathematics of Computation*. The charge to the *Mathematics of Computation* Editorial Committee contains the following paragraph (emphasis added) as Item 4 under **Principal Activities**:

4. The chair of the committee is to act as the Managing Editor of the journal, receiving all manuscripts submitted to the journal, assigning them to appropriate editors for review, and making the final decision on acceptance of papers, based on the recommendations of referees and editors. *The chair is to conduct the correspondence with authors, to keep records of all editorial activities, to receive and solicit books for review in the Reviews section of the journal.*

CPub recommended that the final sentence of Item 4 under Principal Activities in the charge to the *Mathematics of Computation* Editorial Committee be modified to read:

The chair is to conduct the correspondence with authors and to keep records of all editorial activities.

3.4 Charge to the Notices Editorial Committee

The charge to the *Notices* Editorial Board does not make the current policy on member terms explicit. It reads as follows:

General Description

- Committee is standing.
- Number of members is approximately thirteen, one Chief Editor and twelve Associate Editors.
- Term is concurrent with that of the Editor.
- Secretary serves *ex officio.*

CPub recommended replacing the General Description in the Charge to the Notices Editorial Committee with the following:

General Description

- Committee is standing.

- Number of members is approximately thirteen: one Chief Editor and twelve Associate Editors.

- Term of the Chief Editor is three years, January 1 through December 31.

- Terms of the Associate Editors are concurrent with that of the Chief Editor.

- Secretary serves *ex officio*.

3.5 Charge to the Program Committee for the National Meetings

The Secretary recommended the words "Summer and" be deleted from the first sentence of following paragraph in the Charge to the Program Committee for the National Meetings:

Principal Activity
The Committee selects hour speakers for the **Summer and** Annual Meetings. This does not include Colloquium or Gibbs Lecturers or joint AMS-MAA speakers. The number of speakers is agreed in consultation with the Associate Secretary in charge of the meeting, who ordinarily participates in the selection. The invitations are issued in the name of the Committee by the Secretary.

4 Reports of Boards and Standing Committees

4.1 Tellers' Report on the 2016 Elections [Executive Session]

The Society conducted its annual elections in the fall of 2016. There were 3,571 Ballots cast; 3,399 of these were web ballots and 172 were paper ballots. The report of the Tellers is attached (Attachment AH).

4.1.1 Tellers' Report on the Election of Officers

Those elected took office on 01 February 2017. Terms of the newly elected Vice President and the Members at Large of the Council are three years, and the term of the Trustee is five years. The newly elected officers are:

Vice President	**David Jerison**, Massachusetts Institute of Technology
Members at Large	**Nathan M. Dunfield**, University of Illinois, Urbana-Champaign
	Gregory F. Lawler, University of Chicago
	Irina Mitrea, Temple University
	Ravi Vakil, Stanford University
	Talitha M. Washington, Howard University
Trustee	**Ralph L. Cohen**, Stanford University

4.1.2 Tellers' Report on the Election to the Nominating Committee

The following people were elected to the AMS Nominating Committee. Their terms of office are 01 January 2017 – 31 December 2019.

Nominating Committee	**Linda Chen**, Swarthmore College
	Laura De Carli, Florida International University
	Shelly Harvey, Rice University
	Bjorn Poonen, Massachusetts Institute of Technology

4.1.3 Tellers' Report on the Election to the Editorial boards Committee

The following were elected to the Editorial Boards Committee. Their terms of office are 01 February 2017 – 31 January 2020.

Editorial Boards Committee	**Hélène Barcelo**, MSRI & Arizona State University
	Scott Sheffield, Massachusetts Institute of Technology

The Council approved the various Tellers' reports.

4.2 Executive Committee and Board of Trustees

4.2.1 Appointments of AMS Officers [Executive Session]

In accordance with the AMS bylaws, the secretary, the associate secretaries, the treasurer, and the associate treasurer are appointed by the Council. Under a procedure established by the Council, the Executive Committee and Board of Trustees (ECBT), guided by its Nominating Committee, recommends appointments and reappointments to the Council. The ECBT Nominating Committee consists of the third-year member of the EC (Jennifer Taback), the third-year member of the BT (Robert Lazarsfeld), and the chair of the Council Nominating Committee (Douglas Arnold).

Jennifer Taback reported to the Council on the substance of the review of each officer and the actions of the ECBT pertaining to the reappointments of two associate secretaries and the associate treasurer.

4.2.1.1 Associate Secretary of the Central Section

The fourth term of **Georgia Benkart** as Associate Secretary of the Central Section expires 31 January 2018. The ECBT recommended reappointment for another two-year term (01 February 2018 – 31 January 2020).

The Council reappointed Benkart.

4.2.1.2 Associate Secretary of the Western Section

The ninth term of **Michel L. Lapidus** as Associate Secretary of the Western Section expires 31 January 2018. The ECBT recommended reappointment for another two-year term (01 February 2018 – 31 January 2020).

The Council reappointed Lapidus.

4.2.1.3 Associate Treasurer

The third term of Associate Treasurer **Zbigniew Nitecki** expires on 31 January 2018. The ECBT recommended reappointment for another two-year term (01 February 2018 – 31 January 2020).

The Council reappointed Nitecki.

4.2.2 Dues Level for the 2018 Membership Year

The ECBT recommended that individual member dues in 2018 be increased by $4 to $196 for Regular members in the high income category and that the cutoff between the high income and low income categories remain at $85,000. (Dues for other categories follow a formula, a percentage of the Regular individual member dues.)

The information used in formulating this recommendation, as well as a complete description of the procedure and principles, is contained in Attachment D.

The Council approved the ECBT recommendation.

4.2.3 The Mark Green and Kathryn Kert Green Fund for Inclusion and Diversity

It was reported to the Council that the Board of Trustees, at its November 2016 meeting, accepted gifts of donations in endowment to establish the Mark Green and Kathryn Kert Green Fund for Inclusion and Diversity in support of AMS programs, services, and other activities that promote diversity and inclusiveness in the mathematics community.

4.3 Editorial Boards Committee [Executive Session]

Eight editorial committees are specified in the bylaws of the Society: one for each of the *Bulletin*, the *Proceedings*, the *Colloquium Publications*, the *Journal*, *Mathematical Surveys and Monographs*, *Mathematical Reviews*, and *Mathematics of Computation*; and a joint committee for *Transactions* and *Memoirs*. The Chairs (or Managing Editors) of these committees are members of the Council and, as such, appointed by Council upon the recommendation of the Editorial Boards Committee.

4.3.1 Managing Editor, Proceedings of the AMS

Ken Ono's second four-year term as Managing Editor of the *Proceedings of the AMS* ends on 31 January 2018. The Editorial Boards Committee recommended that **Matthew A Papanikolas** (Texas A & M University) be appointed for a term of four years, beginning on 01 February 2018 and ending on 31 January 2022.

The Council appointed Papanikolas.

4.4 Bulletin Editorial Committee [Executive Session]

Susan Friedlander, Chief Editor of the *Bulletin of the American Mathematical Society*, recommended that **William Minicozzi** (Massachusetts Institute of Technology), **Burt Totaro** (University of California at Los Angeles), and **Maciej Zworski** (University of California at Berkeley) be appointed as Associate Editors for one year, 01 February 2017 through 31 January 2018.

The Council appointed Minicozzi, Totaro and Zworski for the terms stated. The Council asked that the Secretary convey to Chief Editor Friedlander a strong expectation that the next round of Bulletin appointments to come before them should include more diverse candidates.

4.5 Committee on Science Policy

The AMS Committee on Science Policy (CSP) met in Washington, D.C. on April 12–13, 2016. The annual report of this committee is attached (Attachment E) and has been filed in the AMS Committee Report Book as Report Number 161109-011. Robert Bryant reported on behalf of the committee and then introduced the new Associate Executive Director of the Washington Division, Karen Saxe. One of Saxe's duties is to provide support for CSP. Saxe said a few words about the Washington Division and announced the CSP panel discussion entitled *Grassroots Advocacy for Mathematics and Science Policy* which took place at the Joint Mathematics Meetings on Friday, January 6, 2017 at 2:30 p.m.

4.6 Committee on Education

The AMS Committee on Education (CoE) met in Washington, D.C. on October 13–15, 2016. The annual report of this committee is attached (Attachment F) and has been filed in the AMS Committee Report Book as Report Number 161103-007. Douglas Mupasiri, CoE chair, reported to the Council on activities of the committee. He announced the CoE panel discussion, sponsored jointly with the SIAM Committee on Education, entitled *Broadening Research Experiences for Doctoral Students in the Mathematical Sciences*, which took place at the Joint Mathematics Meetings on Thursday, January 5, 2017 at 1:00 p.m. Mupasiri also drew the Council's attention to another panel facilitated by CoE and co-sponsored by AMS, BIG SIGMA, MAA and SIAM, entitled *Multiple Paths to Mathematics Careers in Business, Industry and Government (BIG)* which took place on Thursday, January 5, 2017 at 2:35 p.m.

4.7 Committee on Meetings and Conferences

The Committee on Meetings and Conferences (CoMC) met in Chicago, Illinois on March 12, 2016. The annual report of this committee is attached (Attachment G) and has been filed in the AMS Committee Report Book as Report Number 161104-009. T. Christine Stevens, Associate Executive Director for Meetings and Professional Services provided an oral report on behalf of the committee. In addition to the items discussed below, Stevens reported that 70 child care grants were awarded at the Joint Mathematics Meetings in Atlanta, up from 58 in 2016. In 2017, CoMC will review programs that are classified by the AMS as Conferences, Short Courses, or Institutes.

In addition, CoMC had the following items for Council consideration.

4.7.1 Meetings in Cooperation with the AMS

The AMS occasionally cooperates with meetings or conferences of other societies and other groups for specific scientific/engineering purposes. In cooperation, the AMS provides publicity for the events in its publications and on its website. Information about such meetings is posted at http://www.ams.org/meetings/in-cooperation-with/in-cooperation-with. At the 2015 CoMC meeting, Secretary Savage described some of the issues that such meetings can raise, particularly if they are held in countries whose policies violate human rights. She conveyed the Secretariat's request for guidance in determining which meetings to approve. In 2016, CoMC reviewed "Meetings and Conferences Held in Cooperation with the AMS." The committee concluded that there does not appear to be a clear need for such cooperation and no benefit to the AMS in sustaining the program.

Acting on the recommendation of CoMC, the Council discontinued the "Meetings in Cooperation With the AMS" program.

Recognizing that there may be occasions when the AMS would benefit from its participation in meetings or conferences hosted by other societies, CoMC also recommended the following resolution to Council:

> *In truly exceptional circumstances, the Secretariat may recommend to the Executive Committee that AMS participate in a meeting or conference in some form, with appropriate information about this possibility being posted on the AMS website.*

Some Council members felt that the resolution was unclear and did not define a transparent mechanism for cooperating with the AMS; others expressed the view that the resolution is unnecessary, since the Secretariat could recommend such cooperation with or without it. In the end, the Council left it to CoMC to bring another proposal forward if, upon reconsideration, CoMC so desires.

The resolution failed.

4.7.2 AMS-NZMS Maclaurin Lectureship Exchange Program

The Maclaurin Lectureship was established as an exchange between the AMS and the New Zealand Mathematical Society (NZMS). Under the terms of this bilateral agreement, in alternate years a New Zealand based mathematician was to visit the US and then a US based mathematician was to visit New Zealand. Information about the Maclaurin Lecture Series is available at `http://www.ams.org/meetings/lectures/maclaurin-lectures`

The April 2010 Council approved CoMC's recommendation that this program be agreed to for an initial period of six years, allowing three AMS lecturers to go to New Zealand, and three NZMS lecturers to travel in the US. Lecturers from New Zealand are invited to give a

plenary address at an AMS Sectional Meeting while in the US. Attendance at these lectures along with a complete list of speakers is included as Attachment H.

In 2016, CoMC considered whether the AMS should continue this program, and, if so, in what form. Although it deemed the program a success, CoMC felt that six years was long enough for an exchange program of this form with a single country.

The Council approved CoMC's recommendation that the AMS-NZMS agreement establishing the Maclaurin Lectureship Exchange Program not be extended beyond the initial six-year period.

4.8 Committee on the Profession

The AMS Committee on the Profession (CoProf) met in Providence, Rhode Island, on September 17–18, 2016. The annual report of this committee is attached (Attachment I) and has been filed in the AMS Committee Report Book as Report Number 161104-008. David Savitt, CoProf chair, provided an oral report. In this report, he highlighted items that are on the horizon, such as the Joan and Joseph Birman Fellowship and the Mikhail Gordin Award and an ongoing discussion about a possible Departmental Site Visit Program. In 2017, CoProf will review the Committee on Human Rights of Mathematicians. Savitt also announced the CoProf panel discussion entitled *Diversity and Inclusion in the Mathematical Sciences* which took place at the Joint Mathematics Meetings on Wednesday, January 4, 2017 at 4:30 p.m.

In addition, CoProf had the following items for Council consideration.

4.8.1 Committee on Academic Freedom, Tenure, and Employment Security (CAFTES)

CoProf's annual review, conducted by a subcommittee, dealt with CAFTES. It focused on whether CAFTES should continue to exist and, if so, whether its existing guidelines provide sufficient guidance. The current CAFTES charge is included as Attachment J. After discussing the report, CoProf voted to recommend the retirement of CAFTES. Although CoProf felt that issues of academic freedom, tenure, and employment security remain vitally important, it noted that the academic environment had changed since CAFTES was established in 1972, with most institutions now having formal processes for handling grievances and appeals. CoProf felt that a committee of the AMS would not be effective in addressing these issues and noted that other scientific professional organizations do not seem to have committees with comparable responsibilities. In addition, concerns were expressed about possible legal ramifications of actions of CAFTES (See Attachment K).

Acting on CoProf's recommendation, the Council dissolved the Committee on Academic Freedom, Tenure, and Employment Security (CAFTES).

4.8.2 The Joint Committee on Women in the Mathematical Sciences

CoProf recommended that the Council approve the attached (Attachment L) *Procedures for New Organizations to Join the Joint (AMS-AMATYC-ASA-AWM-IMS-MAA-NCTM-SIAM) Committee on Women (JCW).*

The Council approved.

The National Association of Mathematicians (NAM) submitted a formal request to join JCW as a member organization. JCW endorsed NAM's request and CoProf recommended that Council approve the request.

The Council approved NAM as a member organization of the JCW.

4.8.3   Data Collection

One of the Strategic Initiatives endorsed by the January 2016 Council was that of promoting diversity and inclusion. A task that fell within this initiative was:

> **Include All Parts of the AMS Membership in Direction of the Society's Support of Research and Scholarship**
> *It is important for the governance of the AMS to include volunteers who are diverse in all respects. The AMS governance structure and leadership development will draw upon the talents of mathematical scientists of all kinds, including: academic and non-academic; those working at doctoral, master, and bachelor-granting institutions; men and women; and those from groups that are underrepresented in mathematics. To assure that goals are met, the AMS staff will monitor and provide information when requested about demographic characteristics of volunteer groups.*

Each year, the *Notices* publishes statistics about women in mathematics. The most recent such report can be found at http://www.ams.org/notices/201509/rnoti-p1055.pdf. These statistics are published in accord with a motion approved by the Council in August 1985, which said, in part:

> *The AMS should regularly assemble information on the relative numbers of men versus women in at least the following categories, and should keep at least the Council informed of its findings:*
>
> *(A) membership in the AMS;*
>
> *(B) invited hour addresses at AMS meetings;*
>
> *(C) speakers at special sessions at AMS Meetings;*
>
> *(D) members of editorial boards of AMS journals.*

CoProf requested that Council reconsider this thirty-two year old statement.

In particular, CoProf recommended that Council amend the 1985 statement by replacing the phrase "relative numbers of men versus women" with "gender identities of people," so that the first sentence becomes: "The AMS should regularly assemble information on the gender identities of people in at least the following categories..."

The Council expressed support for using inclusive language and for asking people to self-identify. Those opposed to CoProf's recommendation wanted it to be clear that the AMS does, in fact, wish to collect information on the "relative numbers of men verses women," and did not view the phrase as restricting the AMS to collecting only this information. A concern was expressed that the proposed phrase "gender identities of people" was too ambiguous to provide clear and useful information about what the Council wanted.

After approximately 40 minutes, a motion to table the recommendation to amend the 1985 statement by replacing "relative numbers of men versus women" with "gender identities of people," was made and seconded. This motion passed on a vote of 11 in favor, 9 opposed and 1 abstention.

In addition, CoProf asked the Council to consider whether it would like to modify the list of categories (such as speakers or members of editorial boards) about which data are collected, and whether it would like to broaden the scope of the data that are collected (e.g., data about underrepresented groups). The Council expressed interest in continuing this discussion at its April meeting.

4.8.4 Ulf Grenander Prize in Stochastic Theory and Modeling

Following a recommendation of CoProf, the November 2015 Board of Trustees approved accepting endowment contributions in support of the Ulf Grenander Prize in Stochastic Theory and Modeling, with details of the prize to be discussed by CoProf and approved by Council. The January 2016 Council approved planning for the creation of the Ulf Grenander Prize. In April, 2016, the Development Committee completed the prize description for CoProf's final consideration at their meeting in September, 2016. The amount and frequency of the prize was approved by the Board of Trustees in November, 2016.

Upon the recommendation of CoProf, the Council created the Ulf Grenander Prize in Stochastic Theory and Modeling with the following Prize Description:

> **Prize Description:** The Grenander Prize, established in 2017 in honor of Ulf Grenander (1923-2016), recognizes exceptional theoretical and applied contributions in stochastic theory and modeling. It is awarded for seminal work, theoretical or applied, in the areas of probabilistic modeling, statistical inference, or related computational algorithms, especially for the analysis of complex or

high-dimensional systems.

Prize Details: The prize amount is $5,000, awarded every three years.

4.8.5 Mathematics Programs that Make a Difference Award

The Council of January 2005 endorsed CoProf's recommendation that the AMS compile and publish a series of profiles of programs that:

1. aim to bring more persons from under-represented minority backgrounds into some portion of the pipeline beginning at the undergraduate level and leading to advanced degrees in mathematics and professional success, or retain them once in the pipeline;

2. have achieved documentable success in doing so; and

3. are replicable models.

A description of Mathematics Programs that Make a Difference Award is available at `www.ams.org/profession/prizes-awards/ams-supported/make-a-diff-award`.

Recipients of the Mathematics Programs that Make a Difference Award receive a certificate, and an article about their program appears in the *Notices*, but there is currently no monetary prize. In contrast, the Award for Impact on the Teaching and Learning of Mathematics, conferred by the Committee on Education, carries a monetary prize of $1000, made possible by an endowment fund established in 2012 through a contribution from Kenneth I. and Mary Lou Gross in honor of their daughters Laura and Karen.

At its meeting in 2014, CoProf unanimously agreed that the Development Committee should strive to fund the Mathematics Programs that Make a Difference Award. In November 2016, the Board of Trustees approved an annual award of $1,000.

Mark Green and Kathryn Kert Green have asked that their endowment be used to fund the Mathematics Programs that Make a Difference Award for at least ten years. They request that the description of the award include the following statement: "This award carries a $1000 cash prize, funded by the Mark Green and Kathryn Kert Green Fund for Inclusion and Diversity," and that a similar statement be made when announcing the award.

CoProf recommended and the Council approved funding the Mathematics Programs that Make a Difference Award as an award, in the amount of $1000, with one award given annually.

4.9 Committee on Publications

The AMS Committee on Publications (CPub) met in Providence, Rhode Island, on September 16–17, 2016. The annual report of this committee is attached (Attachment M) and has

been filed in the AMS Committee Report Book as Report Number 161109-011. CPub chair, Anatoly Libgober, provided an oral report. The Committee will review the AMS Book Program in 2017 and has formed a subcommittee to study institutional open access policies as they relate to authors', publishers', funding agencies', and schools' rights for faculty-authored scholarly articles.

In addition, CPub had the following items for Council consideration.

4.9.1 Journal Business Models [Executive Session]

A key strategic initiative for the AMS is to expand its output of high-quality journals and increase its market share. As part of that initiative, AMS staff prepared a draft *New Journal Models White Paper*, addressing details about content and business issues faced by the AMS in developing new journals. In this document, a number of potential paths to creating successful business models for new journals and developing existing journals were proposed. The draft white paper was discussed (including editorial and content direction) during the September 2016 Committee on Publications (CPub) meeting. A revised version of the white paper was subsequently sent to CPub. A vote was then taken on whether CPub members were in favor of the AMS looking further into developing new journals following one or more of the proposed models. The revised white paper endorsed by CPub and a summary of the results of the vote on the proposed new journal models and comments submitted by CPub members was attached to the Executive Session. Robert Harington gave a brief report to the Council.

4.9.2 The Transactions and Memoirs of the AMS Editorial Committee

In 2014, a "backlog reduction plan" aimed at reducing the backlogs for AMS's primary journals to "zero" (i.e., a four-month in-house backlog) became a priority. As part of a plan to improve the overall functioning of the journal's editorial processes, the Publisher and Associate Executive Director for Publishing prepared a proposal to modify the current structure of the *Transactions and Memoirs of the AMS* Editorial Committee to add Coordinating Editors.

At its September 2016 meeting, CPub considered the attached (Attachment N) Proposal for Restructuring the *Transactions and Memoirs of the AMS* (TAMS) Editorial Committee. The committee concluded that the editorial board should be restructured. The Editorial Boards Committee was informed of CPub's recommendation and raised no concerns.

The current charge to the committee includes the following **General Description**:

- Committee is Standing
- Number of members is approximately twenty

- Term is four years

CPub unanimously recommended that "Number of members is approximately twenty" in the charge to the TAMS Editorial Committee be replaced by:

> The Editorial Board will consist of the Managing Editor, five Coordinating Editors and about 15 Editors.

The Council approved.

4.9.3 Procedures for New Journal Proposals

In November 2015, the Executive Committee and Board of Trustees (ECBT) called for the development of formal procedures for evaluating and approving new journal proposals. At its September 2016 meeting, CPub approved such procedures and in November 2016, ECBT endorsed them.

Upon reviewing the proposed procedures, one Council member asked for clarification about whether these procedures applied to proposals coming from the AMS and AMS Publisher Sergei Gelfand replied that they did. After some discussion about the number of expert reviewers to require and whether opinions from such reviewers should be included as part of the application process or part of the vetting process, a motion was made and seconded to approve the procedures with an amendment to Section I.b. that changed the sixth bullet item from

- "Opinions from at least five (5) expert reviewers about the quality, importance and viability of the proposed journal" to

- "Opinions from independent expert reviewers about the quality, importance and viability of the proposed journal"

The Council approved the attached (Attachment O) *Procedures for New Journal Proposals*.

4.9.4 Guidelines for the Submission, Refereeing and Publication of Computer-Assisted Proofs

In 2015, at the request of AMS Publisher Sergei Gelfand and Associate Executive Director of Meetings and Professional Services, T. Christine Stevens, the Committee on Publications (CPub) and the Committee on the Profession (CoProf) formed a joint subcommittee to consider what role, if any, the AMS should have in the creation of guidelines for computational reproducibility standards for the mathematical community.

In September 2016, CPub and CoProf independently reviewed the guidelines suggested by the subcommittee and jointly recommended the following:

Guidelines for the Submission, Refereeing and Publication of Computer-Assisted Proofs

As with all proofs in mathematics, computer-assisted proofs should be presented in enough detail for experts to validate them. Independent researchers should be able to examine all relevant calculations. Although each specific research community must and should decide its own standards, generally useful practices include giving complete descriptions of algorithms, and assuring access to software. When less standard packages or custom-written programs are used, it may be important to provide source code. Just as with the written text of papers, it is important to consider long-term stability of repositories and appropriate placement. For example, code can be attached to an arXiv submission or included in the online version of the journal where the paper is published

The Council approved the Guidelines for the Submission, Refereeing and Publication of Computer-Assisted Proofs with the word "included in" changed to "appended to" in the final sentence.

4.10 Mathematical Reviews Editorial Committee

The Mathematical Reviews Editorial Committee (MREC) met in Ann Arbor, Michigan on October 10, 2016. The annual report of this committee is attached (Attachment P) and has been filed in the AMS Committee Report Book as Report Number 161114-015. Ronald Solomon, MREC Chair, provided an oral report.

4.11 Report of the Chief Editor of the Notices of the AMS

The Chief Editor of the *Notices*, Frank Morgan, reported to the Council. Attachment Q contains remarks submitted prior to the meeting. Morgan asked for help from the Council in recommending editors and he encouraged council members (and others) to submit letters to the Editor. Finally, he mentioned some new features and upcoming articles.

4.12 Report from the AMS Library Committee

The 2016 annual report of this committee is attached (Attachment R) and has been filed in the AMS Committee Report Book as Report Number 161114-015.

4.13 Report from the AMS Representative to the Canadian Mathematical Society

The 2016 report from Hélène Barcelo who attended the Council of the Canadian Mathematical Society as an AMS Representative is attached (Attachment S) and has been filed in the AMS Committee Report Book as Report Number 160826-001.

4.14 Report from the Arnold Ross Lecture Series Committee

The 2016 annual report of this committee is attached (Attachment T) and has been filed in the AMS Committee Report Book as Report Number 161207-018.

4.15 Report from the Committee on Professional Ethics

The 2016 annual report of this committee is attached (Attachment U) and has been filed in the AMS Committee Report Book as Report Number 161114-014.

4.16 Report from the Fan Fund Committee

The 2016 annual report of this committee is attached (Attachment V) and has been filed in the AMS Committee Report Book as Report Number 161031-005.

4.17 Report from the Joint Committee on Women

The 2016 annual report of this committee is attached (Attachment W) and has been filed in the AMS Committee Report Book as Report Number 161028-004.

4.18 Report from the Joint Committee on Teaching Assistants and Part Time Instructors

The 2016 annual report of this committee is attached (Attachment X) and has been filed in the AMS Committee Report Book as Report Number 161109-012.

4.19 Report from the Joint Data Committee

The 2016 annual report of this committee is attached (Attachment Y) and has been filed in the AMS Committee Report Book as Report Number 161117-017.

4.20 Report from the Mathematics Research Communities Advisory Board

The 2016 annual report of this committee is attached (Attachment Z) and has been filed in the AMS Committee Report Book as Report Number 161107-010.

4.21 Report from the Menger Prize Committee

The 2016 annual report of this committee is attached (Attachment AA) and has been filed in the AMS Committee Report Book as Report Number 161013-002.

4.22 Report from the Short Course Subcommittee

The 2016 annual report of this committee is attached (Attachment AB) and has been filed in the AMS Committee Report Book as Report Number 161115-016.

4.23 Report from the Young Scholars Awards Committee

The 2016 annual report of this committee is attached (Attachment AC) and has been filed in the AMS Committee Report Book as Report Number 161014-003.

5 Old Business

6 New Business

6.1 Guidelines for the Fellows Selection Committee on the Number of New Fellows

Each year the January Council must provide a guideline for the number of AMS Fellows to be selected that year. Attachment AD sets forth the process laid out in the Fellows Proposal

that was approved by the membership. In particular, Item I.C, and Footnotes 1 and 5 of that document state that the target number of Fellows is determined by the AMS Council as a percentage of the membership. The proposal's recommendation to Council is that the target be about 5% of members, to be attained over the first ten years of the program, and that the target percentage be revisited by Council at least once every ten years. It might be increased or decreased in light of the history of the nomination and selection process. It was anticipated that during a transition period of approximately ten years about 75 new Fellows would be appointed each year. This assumption was based on a membership total of 30,000, on the prediction that the seeding process would result in an inaugural class of about 800 Fellows, and on the assumption of an attrition of about 40 Fellows per year.

Attachment AE contains information about the number of AMS members, the number of Fellows, the number of new nominations received each year and the number of nominations reviewed by the selection committee.

There are currently 28,104 members, 1,284 of whom are Fellows. The Secretary asked the Executive Committee (EC) to recommend a number to the Council as the guideline for the election of new Fellows in 2017, the fifth year of the transition period. The EC recommended a target range of 50–65 new Fellows.

The Council, following the EC recommendation, asked that the Fellows Selection Committee be given a target range of 50–65 Fellows to be selected in 2017 for the Class of 2018.

6.2 Tie-breaking in the AMS Elections

According to the AMS bylaws (Article VII, Section 2), "The president elect, the vice presidents, the trustees, and the members at large of the Council shall be elected by ballot..... A plurality of all votes cast shall be necessary for election. In case of failure to secure a plurality for any office, the Council shall choose by ballot among the members having the highest number of votes." Candidates for these offices are nominated by the Council.

In contrast, candidates for election to the Editorial Boards Committee and to the Nominating Committee are nominated by the President of the Society. Neither the AMS bylaws nor the Council minutes mention how ties should be broken in these elections.

The 2016 AMS elections resulted in an unprecedented tie for the third of three vacancies on the Nominating Committee. At its November meeting, the Executive Committee unanimously voted to appoint both candidates to the committee. The Secretary recommended that, for future AMS elections, the Council approve the following resolution:

> *In the event of a tie in the election of members to the Editorial Boards Committee or the Nominating Committee, the tie will be broken by a vote of the seven-member Executive Committee of the Council.*

The Council approved.

6.3 Chief Editor of the Bulletin of the AMS [Executive Session]

Susan Friedlander's term as Chief Editor of the *Bulletin of the American Mathematical Society* ends on January 31, 2018. The following procedure was established by the Council of January 2006:

> *The chief editors of the Notices and Bulletin shall be appointed by the Council. Recommendations for appointment and reappointment shall be made by a committee consisting of the Executive Director (chair), the Secretary, the President, and two elected members of the Council appointed by the President. For new appointments, the committee should advertise widely to attract applications from the entire mathematical community. The recommendation of the committee along with a written rationale shall be brought to the Council for its approval.*

In the spring of 2016, a committee composed of Executive Director McClure, Secretary Savage, President Bryant, Council Member Carlos Kenig and Council Member Mary Pugh was established. A summary of the search process and a brief rationale for the following recommendation is contained in Attachment AH.

The committee unanimously recommended that Susan Friedlander be reappointed as Chief Editor of the Bulletin for the term 01 February 2018 - 31 January 2021.

The Council appointed Friedlander for the recommended term.

Before the committee began its discussions, Friedlander informed its members that she was interested in continuing to serve as Chief Editor and that the term ending on January 31, 2021 would be her last. Therefore, the next selection committee will be required to make a new appointment. In order to provide time for an adequate search and an orderly transition, the Council, at the recommendation of the search committee, adopted the following procedure:

The recommendation of the selection committee for Chief Editor of the Bulletin for the term 2021–2023 should be brought to the Council for its approval at the Council meeting in January 2019 and the new editor-designee should be appointed as an Associate Editor for the Bulletin on February 1, 2019.

6.4 Web Editorial Group

In September of 2011, the Committee on Publications endorsed the creation of a working group, the AMS Web Editorial Group (WEG), to be assembled by Secretary Daverman and President Friedlander and charged with advising AMS officers and staff about mathematical content on the AMS website. WEG supplements the work of WAG (the Web Advisory

Group), a group of AMS staff members who oversee www.ams.org. At its October 2016 meeting, WAG suggested that WEG could become a standing committee, charged with such things as approving new blogs, making recommendations when changes are made to the mathematical content of the site, and advising WAG when issues arise.

The Council instructed CPub to consider whether WEG should become a Standing Committee and, if so, developing a charge for it.

6.5 Committee to Select the Winner of the Ulf Grenander Prize in Stochastic Theory and Modeling

In Item 4.8.4, Council approved creating the Ulf Grenander Prize. The Secretary and CoProf asked that Council establish a selection committee. The first Ulf Grenander Prize will be awarded in 2018.

The Council created the Committee to Select the Winner of the Ulf Grenander Prize and approved the following charge to the committee:

Committee to Select the Winner of the Ulf Grenander Prize

General Description:

- Committee is standing

- Number of members is three

- Term is three years

- Members are appointed by the President

Prize Description: The Grenander Prize, established in 2017 in honor of Ulf Grenander (1923-2016), recognizes exceptional theoretical and applied contributions in stochastic theory and modeling. It is awarded for seminal work, theoretical or applied, in the areas of probabilistic modeling, statistical inference, or related computational algorithms, especially for the analysis of complex or high-dimensional systems. The current prize amount is $5,000 and the prize is awarded every three years.

Principal Activities: The committee recommends a winner and communicates its selection to the Secretary for approval by the Executive Committee of the Council. The committee recommendation should include a written citation for the nominee.

6.6 Rebranding the AMS

Executive Director Catherine Roberts reported on rebranding activities at the AMS. The following text provides background information about these activities.

One of the six Strategic Initiatives endorsed by the January 2016 Council is as follows:

> **Advocacy, Awareness & Visibility**
> *The AMS will become the recognized resource about the mathematical sciences by raising its visibility to diverse constituencies including its membership, the media, strategic partners, policymakers and other public groups.*

The first task associated with this Strategic Initiative is:

> **Create new and consistent branding across the AMS for its publications, programs and services**
> *The AMS will engage in a creative process to define its brand. The process will enable the AMS to clarify its positioning and messaging, and to develop its attributes. The outcome will be a consistent message and a readily recognizable visual identity that can be utilized universally by all facets of the organization.*

The completion of this task is a top priority as it is the key to the success of all other Strategic Initiatives. A staff Branding Team, chaired by the Executive Director, has been appointed to do the following:

- gather and examine existing data and re-branding efforts of other organizations

- gather input from stakeholders at AMS governance meetings, AMS sectional meetings, and the Joint Mathematics Meetings to hear multiple perspectives

- establish metrics of current brand awareness to measure against brand awareness at a later date

Attachment AF contains the following background information regarding the current AMS brand and that of some other organizations:

- Seal of the Society and its meaning, along with the current verbiage used to describe the AMS

- Various versions of the AMS logo currently in use

- AMS program brands

- Brands for joint ventures

- Logos of some other organizations

Stakeholders are being asked to consider the following five questions. Council members were asked to submit responses before January 15, 2017 to branding@ams.org.

1. What words do you think of when you think of the AMS?

2. What words do you think others, including AMS members, think of when they think of the AMS?

3. What words would you like members and others to think of when they think of the AMS?

4. If AMS had a "tagline" what would it be? (e.g., *AMS=Math; The voice of Mathematics; Our math community; Math Central*)

5. If you think of other math and science societies, how would you describe the AMS's niche? What makes the AMS different from these other organizations?

7 Announcements, Information and Record

7.1 Budget

The Board of Trustees adopted the budget for 2017 as presented at its 19 November 2016 meeting.

7.2 Chief Editor of the Notices of the AMS

Frank Morgan's first term as Chief Editor of the *Notices* ends on December 31, 2018. The following procedure was established by the Council of January 2006:

> *The chief editors of the Notices and Bulletin shall be appointed by the Council. Recommendations for appointment and reappointment shall be made by a committee consisting of the Executive Director (chair), the Secretary, the President, and two elected members of the Council appointed by the President. For new appointments, the committee should advertise widely to attract applications from the entire mathematical community. The recommendation of the committee along with a written rationale shall be brought to the Council for its approval.*

Accordingly, a committee will be appointed to make a recommendation to the Council concerning the Chief Editor for the *Notices* for the term 2019–2021.

7.3 Next Council Meeting

The next Council Meeting will be held Saturday, 29 April 2017, in Chicago, Illinois, starting at noon with a working lunch. As usual, a significant component of the Council meeting will be the actual nomination of candidates for election in 2017 to AMS offices, as proposed by the Nominating Committee.

In addition, time will be allocated for a Council discussion on the following topic:

> ***What is the AMS doing about education? What should the AMS be doing about education?***

The Council discussions were started in 2002. Recent discussion topics have been: the role of online materials, especially MOOCs, in college/university education (2013); MathSciNet: Is it still a competitive product? What can be done to make it more valuable to mathematicians? (2014); AMS Membership: Is it still relevant for mathematicians? (2015); and One of the initiatives in the AMS Strategic Plan is to publish more mathematics content. What form might this take and how might it be implemented? (2016).

7.4 Future Scientific and Governance Meetings

See the listing of future meetings in Attachment AG.

8 Adjournment

The meeting adjourned at 7:03 p.m.

Carla D. Savage
AMS Secretary

ATTACHMENTS

2016 AMS GOVERNANCE

2016 COUNCIL

Officers

President	Robert Bryant	Duke University	31 Jan 2017
President Elect	Kenneth A. Ribet	University of California, Berkeley	31 Jan 2017
Vice Presidents	Carlos Kenig	University of Chicago	31 Jan 2018
	Susan Montgomery	University of Southern California	31 Jan 2017
	Richard Schoen	University of California, Irvine & Stanford University	31 Jan 2019
Secretary	Carla D. Savage	North Carolina State University	31 Jan 2017
Associate Secretaries	Georgia Benkart	University of Wisconsin	31 Jan 2019
	Brian D. Boe	University of Georgia	31 Jan 2017
	Michel Lapidus	University of California, Riverside	31 Jan 2019
	Steven H. Weintraub	Lehigh University	31 Jan 2017
Treasurer	Jane M. Hawkins	University of North Carolina	31 Jan 2017
Associate Treasurer	Zbigniew Nitecki	Tufts University	31 Jan 2019

Representatives of Committees

Bulletin Editorial	Susan J. Friedlander	University of Southern California	31 Jan 2018
Colloquium Editorial	Peter Sarnak	Princeton University	31 Jan 2017
Executive Committee	Jesús A. De Loera	University of California, Davis	28 Feb 2019
Executive Committee	Tara S. Holm	Cornell University	28 Feb 2017
Journal of the AMS	Sergey Fomin	University of Michigan	31 Jan 2017
Math Reviews Editorial	Ronald M. Solomon	Ohio State University	31 Jan 2017
Math Surveys & Monographs	Michael A. Singer	University College London	31 Jan 2018
Mathematics of Computation	Susanne C. Brenner	Louisiana State University	31 Jan 2020
Proceedings Editorial	Ken Ono	Emory University	31 Jan 2018
Transactions and Memoirs	Alejandro Adem	University of British Columbia	31 Jan 2017

Members at Large

Mathew Baker	Georgia Institute of Technology	31 Jan 2018
Henry Cohn	Microsoft Research New England & MIT	31 Jan 2019
Alicia Dickenstein	University of Buenos Aires	31 Jan 2019
Richard T. Durrett	Duke University	31 Jan 2017
Lisa J. Fauci	Tulane University	31 Jan 2017
Erica Flapan	Pomona College	31 Jan 2019
Edward Frenkel	University of California, Berkeley	31 Jan 2018
Pamela Gorkin	Bucknell University	31 Jan 2018
Michael J. Larsen	Indiana University	31 Jan 2017
Kristin E. Lauter	Microsoft Research	31 Jan 2017
Wen-Cheng Winnie Li	Pennsylvania State University	31 Jan 2018
Anna Mazzucato	Pennsylvania State University	31 Jan 2019
Mary Pugh	University of Toronto	31 Jan 2018
Alan William Reid	University of Texas at Austin	31 Jan 2019
Jennifer Taback	Bowdoin College	31 Jan 2017

2017 AMS GOVERNANCE

2017 COUNCIL

Officers

President	Kenneth A. Ribet	University of California, Berkeley	31 Jan 2019
Immediate Past President	Robert Bryant	Duke University	31 Jan 2018
Vice Presidents	Carlos Kenig	University of Chicago	31 Jan 2018
	Richard Schoen	University of California, Irvine & Stanford University	31 Jan 2019
	David Jerison	MIT	31 Jan 2020
Secretary	Carla D. Savage	North Carolina State University	31 Jan 2019
Associate Secretaries	Georgia Benkart	University of Wisconsin	31 Jan 2020
	Brian D. Boe	University of Georgia	31 Jan 2019
	Michel Lapidus	University of California, Riverside	31 Jan 2020
	Steven H. Weintraub	Lehigh University	31 Jan 2019
Treasurer	Jane M. Hawkins	University of North Carolina	31 Jan 2019
Associate Treasurer	Zbigniew Nitecki	Tufts University	31 Jan 2020

Representatives of Committees

Bulletin Editorial	Susan J. Friedlander	University of Southern California	31 Jan 2021
Colloquium Editorial	Peter Sarnak	Princeton University	31 Jan 2021
Executive Committee	Jennifer Taback	Bowdoin College	28 Feb 2018
Executive Committee	Jesus A. De Loera	University of California, Davis	28 Feb 2019
Journal of the AMS	Sergey Fomin	University of Michigan	31 Jan 2021
Math Reviews Editorial	Andreas J. Frommer	Bergische Universität Wuppertal	31 Jan 2019
Math Surveys & Monographs	Michael A. Singer	University College London	31 Jan 2018
Mathematics of Computation	Susanne C. Brenner	Louisiana State University	31 Jan 2020
Proceedings Editorial	Ken Ono	Emory University	31 Jan 2018
Transactions and Memoirs	Alejandro Adem	University of British Columbia	31 Jan 2021

Members at Large

Matthew Baker	Georgia Institute of Technology	31 Jan 2018
Edward Frenkel	University of California, Berkeley	31 Jan 2018
Pamela Gorkin	Bucknell University	31 Jan 2018
Wen-Ching Winnie Li	Pennsylvania State University	31 Jan 2018
Mary Pugh	University of Toronto	31 Jan 2018
Henry Cohn	Microsoft Research New England & MIT	31 Jan 2019
Alicia Dickenstein	University of Buenos Aires	31 Jan 2019
Erica Flapan	Pomona College	31 Jan 2019
Anna Mazzucato	Pennsylvania State University	31 Jan 2019
Alan William Reid	University of Texas, Austin	31 Jan 2019
Nathan M. Dunfield	University of Illinois, Urbana-Champaign	31 Jan 2020
Gregory F. Lawler	University of Chicago	31 Jan 2020
Irina Mitrea	Temple University	31 Jan 2020
Ravi Vakil	Stanford University	31 Jan 2020
Talitha M. Washington	Howard University	31 Jan 2020

AMERICAN MATHEMATICAL SOCIETY
MINUTES OF THE COUNCIL
BUSINESS BY MAIL
05 JUNE 2016

Executive Director of the American Mathematical Society

It was reported at the April 2016 Council meeting that Donald McClure would be retiring as AMS Executive Director in the summer of 2016. After an extensive search process, the Board of Trustees selected **Catherine Roberts** as successor to Donald McClure. According to the AMS Bylaws (Article VI, Section 2): "*The Executive Director shall be appointed by the Board of Trustees with the consent of the Council.*"

The Executive Committee (EC) of the Council met in Providence on May 20, 2016 to discuss the Trustees' choice of Catherine Roberts as Executive Director and voted unanimously to endorse the selection.

On May 23, 2016, an agenda item was emailed to the Council that included a description of the search process (apppended to these minutes), along with the application statement and brief CV of Professor Roberts. In that item, the Board of Trustees requested and the Executive Committee recommended that Council **Consent to the appointment of Catherine A. Roberts (College of the Holy Cross) as Executive Director of the AMS**.

This was regarded as a motion made and seconded by the EC and opened for discussion. A secure AMS Bulletin Board was open from May 23–May 29 for Council Discussion and on May 30, an electronic ballot was sent to the Council.

An electronic ballot dated 05 June 2016 posed the question *"Do you Consent to the Appointment of Catherine Roberts as Executive Director of the AMS?"* There were 29 votes cast, by:

Alejandro Adem	Edward Frenkel	Ken Ono
Matthew Baker	Susan Friedlander	Mary Pugh
Susanne Brenner	Pamela Gorkin	Alan Reid
Robert Bryant	Jane Hawkins	Kenneth Ribet
Jesus De Loera	Carlos Kenig	Carla Savage
Alicia Dickenstein	Michael Larsen	Richard Schoen
Richard Durrett	Wen-Ching Winnie Li	Ronald Solomon
Lisa Fauci	Anna Mazzucato	Jennifer Taback
Erica Flapan	Susan Montgomery	Steven Weintraub
Sergey Fomin	Zbigniew Nitecki	

The result of this vote was:

YES	26
NO	2
ABSTAIN	1

Subsequently, Roberts was appointed as Executive Director of the AMS.

Carla D. Savage
Secretary
June 06, 2016

Executive Director Search

In May of 2014, Donald McClure announced to AMS Officers and the Board of Trustees his intention of retiring from his post as Executive Director during the summer of 2016. A search committee was formed at the November 2014 ECBT meeting, consisting of Trustees (Robert Bryant (co-chair), Ruth Charney (co-chair), Jane Hawkins, William Jaco, Robert Lazarsfeld, Zbigniew Nitecki, Joseph Silverman, and Karen Vogtmann) and the Secretary (Carla Savage). The Search Committee did its due diligence, advertising the position in the *Notices,* the *AWM Newsletter*, *MAA Focus*, *SIAM News*, the *Chronicle of Higher Education*, *AMSTAT News*, the *Mathematical Intelligencer*, www.ams.org/ams-jobs, EIMS, and MathJobs. The ad was also emailed to chairs of all mathematics, statistics, and computer science departments in PhD, MS, and BS granting institutions in the US and Canada. The committee contacted many people, seeking suggestions, inviting applications, and encouraging candidates to apply.

The search committee met at the November 2015 ECBT meeting and narrowed the applicant pool to a short list, with whom it conducted phone interviews in late 2015. After the phone interviews, the search committee held face-to-face interviews with the candidates at JMM in Seattle.

The candidates were then invited to visit AMS Headquarters in Providence in February to meet with senior staff. The visits were hosted by search committee members. During these visits, conference calls were held with the Ann Arbor and Washington D.C. senior staff. After the visit, the search committee collected feedback from senior staff and then met by conference call to identify its top choices for the position.

In April of 2016, the Board of Trustees selected Catherine Roberts, Chair of the Department of Mathematics and Computer Science at College of the Holy Cross, as successor to Donald McClure.

According to the AMS Bylaws (Article VI, Section 2): ``The Executive Director shall be appointed by the Board of Trustees with the consent of the Council.''

The Council is now asked to consider the recommendation of the Trustees. At its April 2016 meeting, the Council expressed interest in hearing a recommendation from the Executive Committee (EC) about the candidate selected by the Trustees. At its May meeting, the EC endorsed the recommendation of the Trustees to appoint Roberts as Executive Director of the AMS.

An offer has been made by the Board of Trustees to Catherine Roberts, contingent on consent of the Council. The offer has been accepted and, if Council approves, Roberts' tentative start date as Executive Director will be August 1, 2016.

Determining the 2018 Individual Member Dues Recommendation to the Council

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

- In November of year X, staff makes a recommendation about dues, guided by the principles described below. The ECBT then recommends a dues rate for year X+2 to the Council.

- In January of year X+1, the Council reviews the ECBT recommendation and sets the dues rate for year X+2.

- In May of year X+1, the Board of Trustees approves the dues set by Council.

In May 2015 the Board of Trustees approved a modification of the principles that guide the setting of individual member dues. The revised principles are:

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

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

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

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

Recommendation for 2018 Dues

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

The staff recommends a small increase in dues for 2018. For the near future, we will continue to experience the problem of static dues revenues and rising costs. Indeed, individual dues revenues have been decreasing, and it is important to reverse the decline in membership – something that an initiative in the AMS strategic plan is intended to achieve. In accord with Principle 3, it is better to raise dues in small increments over the years rather than to raise them

significantly all at once in the future, if dues once again no longer cover the net direct costs of membership activities. It is also important to note that the institutional dues provide other benefits that are a cost to the AMS, such as significant discounts on AMS products. Therefore, showing a significant margin associated with Principle 1 does not imply that AMS is benefitting excessively from institutional dues.

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

Year	Individual Dues Revenues	Institutional Dues Revenues	Net Direct Cost of Membership Activities	Surplus (Deficit) of Revenue over Costs
2015	1,248	1,180	(1,782)	646
2016 Projected	1,215	1,212	(2,033)	394
2017 Budget	1,231	1,200	(2,094)	337
2018- $192	1,231	1,200	(2,094)	337
2018 - $196	1,256	1,200	(2,094)	362
2018 - $200	1,281	1,200	(2,094)	387

Explanatory Notes:

1. Membership Activities under Principle 1 are:
 a) *Notices & Bulletin*,
 b) Membership development and administration, and
 c) Governance
2. The amounts are taken directly from the B-Pages, pages 5 and 7, as presented to the ABC.
3. 2016 dues revenue reflects current projections and 2017 dues revenue is as budgeted. The three scenarios
     presented for 2018 dues assume a paying membership similar to that budgeted for 2016.

Principles 2 and 3 describe the factors to be taken into consideration for the determination of the amount of a dues increase. Shown in the chart at the end of this attachment are the economic data related to growth in faculty salaries and general inflation. The data on salaries relate to the general ability of members and potential members to pay dues with total personal income. It seems prudent for a membership organization to increase dues at the same or slower rate than its members' salaries increase. As of the end of 2015 (the last year of actual data), the cumulative dues increase as of 2016 lags the salary increase in the AMS survey by more than five years. Similar results are seen if one uses the AAUP salary data, although the lag time and differences in the cumulative increases are less than the results using the AMS survey.

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

individual member is likely somewhere in between the cumulative increase of year X (dues paid during dues year) and X-1 (dues paid in advance).

Therefore, AMS staff members recommend that the regular high dues rate for 2018 be set at $196, with the salary cutoff for high/low rates remaining at $85,000. This is a $4 increase over the dues for 2017.

T. Christine Stevens, Associate Executive Director
Emily D. Riley, Chief Financial Officer
October 2016

Factors for Consideration in Setting Individual Dues Rates for 2018

Faculty Salaries Data					Inflation Data			Regular High Dues Rates		
AAUP Reports		AMS Annual Survey								
Annual Increase	Cumulative Increase	Doctoral Departments	Cumulative Increase	Academic Year Beginning	Calendar Year	Annual Increase CPI-U	Cumulative Increase CPI-U	Actual Dues	Cumulative Increase	High/Low Cutoff
3.0%				1996	1996	3.3%		120		45,000
3.3%	3.3%	2.7%	2.7%	1997	1997	1.7%	1.7%	124	3.3%	45,000
3.6%	7.0%	3.8%	6.6%	1998	1998	1.6%	3.3%	128	6.7%	45,000
3.7%	11.0%	3.8%	10.7%	1999	1999	2.7%	6.1%	132	10.0%	55,000
3.5%	14.9%	5.0%	16.2%	2000	2000	3.4%	9.7%	132	10.0%	65,000
3.8%	19.2%	4.2%	21.1%	2001	2001	1.6%	11.4%	136	13.3%	75,000
3.0%	22.8%	3.3%	25.1%	2002	2002	2.4%	14.1%	140	16.7%	75,000
2.1%	25.4%	2.0%	27.6%	2003	2003	1.9%	16.2%	144	20.0%	75,000
2.8%	28.9%	2.2%	30.4%	2004	2004	3.3%	20.0%	148	23.3%	80,000
3.1%	32.9%	4.0%	35.6%	2005	2005	3.4%	24.1%	152	26.7%	80,000
3.8%	37.9%	3.5%	40.2%	2006	2006	2.5%	27.2%	152	26.7%	80,000
3.8%	43.2%	4.2%	46.1%	2007	2007	4.1%	32.4%	156	30.0%	80,000
3.4%	48.0%	1.6%	48.5%	2008	2008	0.1%	32.6%	160	33.3%	80,000
1.2%	49.8%	3.0%	53.0%	2009	2009	2.7%	36.1%	164	36.7%	80,000
1.4%	51.9%	0.7%	54.1%	2010	2010	1.5%	38.2%	168	40.0%	85,000
1.8%	54.6%	3.6%	59.6%	2011	2011	3.0%	42.3%	168	40.0%	85,000
1.7%	57.2%	1.3%	61.7%	2012	2012	1.7%	44.7%	172	43.3%	85,000
2.2%	60.7%	1.8%	64.6%	2013	2013	1.5%	46.9%	176	46.7%	85,000
2.2%	64.2%	3.0%	69.5%	2014	2014	0.8%	48.1%	180	50.0%	85,000
		4.4%	77.0%	2015	2015	0.7%	49.1%	184	53.3%	85,000
					2016 proj	1.1%	50.7%	188	56.7%	85,000
					2017 est	2.0%	53.7%	192	60.0%	85,000
					2018	2.0%	56.8%	**192**	60.0%	85,000
					2018	2.0%	56.8%	**196**	63.3%	85,000
					2018	2.0%	56.8%	**200**	66.7%	85,000

Explanatory Notes:
1. AAUP data: Percentage increase in average nominal salaries for institutions reporting comparable data for adjacent one-year periods.
2. CPI-U data: Based on the Dec. to Dec. annual change in the index, with estimates for 2016, 2017, and 2018.
3. The relevant AAUP salary data are not available for 2015.

American Mathematical Society
Committee on Science Policy Meeting
April 12-13, 2016
Washington, DC

Summary Report

The Committee on Science Policy (CSP) met over two days with a focus on Capitol Hill meetings between Congressional representatives and meeting attendees to promote mathematics and to urge increased federal funding for the National Science Foundation, specifically an $8 billion budget level for FY2017. In total, the group met with 26 offices. The first day of the meeting was devoted to preparation for Hill meetings. Wednesday was spent making Hill visits.

Michael Vogelius
Director, Division of Mathematical Sciences (DMS)
Directorate of Mathematical & Physical Sciences (MPS), National Science Foundation (NSF)
Michael Vogelius began his presentation with a look at trends in federal R&D funding by agency, as well as a history of NSF/MPS divisional budgets and MPS-DMS funding rates. He observed the difficulty of recouping losses experienced from sequestration in FY2013, but felt that DMS funding rates were now relatively steady with incremental increases each of the last few years since sequestration.

Vogelius reported that NSF has been working with NIH on its *Big Data to Knowledge (BD2K)* initiative, which launched in 2012. He reported that NIH reached out to NSF/MPS-DMS and NSF/CISE to ask for the involvement of mathematicians, computer scientists and statisticians in their efforts on data science. This NSF – NIH collaboration led to an innovation lab held last summer from which ten $100K planning grants were jointly awarded. In follow up, there will be another workshop to be held June 15-19, 2016 in Lake Arrowhead, CA to further efforts in biomedical big data and mobile health. NSF is also working in other areas of big data, including privacy and security and is also working on the National Strategic Computing Initiative (NSCI).

Vogelius mentioned that the NSF made a change in how the allocations were determined for Graduate Research Fellowships (GRF). Prior to this year, the number of proposals submitted was the determining factor in how many GRFs were awarded in given disciplines, but although proposal pressure is still part of the formula and encouraging proposals in the mathematical sciences is still important, it does not carry as much weight any longer. This change in the formula has actually increased the number of GRFs awarded in the mathematical sciences by about 30% this year or about 15 fellowships.

Mark Mozena
Policy Advisor, Office of Rep. Mike Honda (CA-17)
Mozena began his presentation by talking about his background and how he came to work on Capitol Hill. He explained a little about how Congress works and about the differences between the House of Representatives and the Senate. The appropriations process was explained and attendees were encouraged to make the case in their meetings tomorrow for an increased, sustained level of federal support for basic scientific research as it's an opportune time to affect the FY2017 budget process.

Mozena also encouraged attendees to establish relationships with their Representatives' offices and to offer to be a resource for them. He suggested that their Representatives be invited to events at their universities to foster such relationships.

Presentation on Conducting Meetings with Members of Congress
Sam Rankin, Director of the AMS Washington Office, and Tony Macula, Office of Rep. Jim McDermott and AMS 2015-16 Congressional Fellow, presented an orientation for Congressional meetings developed by the AMS Washington Office. Basic information about how to conduct congressional office meetings, the federal budget process, the structure of a Congressional office and insights into Members of Congress and their staffs were presented.

The AMS Washington Office developed the "Ask," which is a statement of the request of the Member of Congress that was left at each visit, along with other materials. The FY2017 "Ask" was for an $8 billion budget for the National Science Foundation (NSF).

Constituent Meetings
On Wednesday, April 13 the group went to Capitol Hill to hold meetings in congressional offices. The AMS Washington Office scheduled meetings for all participants with their respective Congressional representatives. These constituent meetings were conducted in four 2-3 person teams.

Date of Next Meeting
The 2017 Committee on Science Policy meeting is scheduled for Tuesday, April 4 and Wednesday, April 5, 2017 in Washington, DC.

Submitted by Anita Benjamin
American Mathematical Society
Submitted May 3, 2016

MEMORANDUM

DATE: 11/14/2016

TO: OFFICE OF THE AMS SECRETARY

FROM: DOUGLAS MUPASIRI, COE CHAIR

RE: ANNUAL POLICY COMMITTEE REPORT

Here is a summary of the AMS Committee on Education since February 1, 2016:

1. Welcomed new members of the committee – February 18, 2016
2. Committee organized itself as three subcommittees to handle its major responsibilities:
   - The Award for the Impact on Teaching and Learning Subcommittee – to review nominations and select 2016 winner(s) of the award – subcommittee members: Erica Flapan, Tara Holm (chair), Manmohan Kaur, Kay Somers
   - The COE October Meeting Subcommittee to organize the October meeting – subcommittee members: Matt Baker, Jeff Hakim, John Ewing, Doug Mupasiri (chair), Jennifer Taback
   - The COE JMM Panel Subcommittee to organize the COE JMM Panel – subcommittee members: Ben Braun (chair), Robert Bryant, Herb Clemens, Robert Lazersfeld, Ken Ribet
3. The Award for the Impact on Teaching and Learning Subcommittee has selected a winner for the award
4. The October Meeting took place October 13-15, 2016 – the theme for the meeting was "Broadening the Conversation: Engaging other STEM Education Stakeholders". The agenda of the meeting included 10 speakers and a Business meeting for COE members only. The meeting schedule is attached to this report as a separate document.
5. The COE JMM Panel Subcommittee joined forces with the SIAM Committee on Education to sponsor a joint panel session, which is listed in the JMM program as the *AMS and SIAM Committees on Education Joint Panel Discussion*. The panel will discuss the topic, "Broadening Research Experiences for Doctoral Students in the Mathematical Sciences" from 1:00 pm – 2:30 pm on Thursday, January 5, 2017
6. At the request of the MAA and SIAM, the COE will co-sponsor a *MAA-AMS-SIAM panel* session titled, " Multiple Paths to Mathematics Careers in Business, Industry and Government (BIG)" which is scheduled for 2:35 pm - 3:55 pm on Thursday, January 5, 2017

   A report of the Annual Committee Meeting submitted by Anita Benjamin, Assistant Director of the Washington office follows.

American Mathematical Society
Committee on Education Meeting
October 13-15, 2016
Washington DC

Summary

The focus of this year's AMS Committee on Education meeting was on "Broadening the Conversation: Engaging other STEM Education Stakeholders." The meeting itself consisted of presentations and discussions over a day and a half. Attendees included a number of chairs of departments of mathematics from across the country. Douglas Mupasiri, Chair of COE, introduced the speakers and facilitated the meeting.

Education Activities of the American Physical Society
Ted Hodapp (American Physical Society-APS) began his presentation by talking about the guiding principles of APS education and diversity programs. He noted problems facing physics today including a lack of high school physics teachers, a lack of diversity (racial/ethnic and gender), and adapting evidence based pedagogical techniques in the classroom.

Hodapp then talked about the statements on these issues that APS publishes and also about some of the APS programs designed to address these concerns. Specifically, he discussed PhysTEC and the APS Bridge Program. PhysTEC is a partnership between APS and the American Association of Physics Teachers (AAPT) designed to improve and promote the education of future physics teachers.

The APS Bridge Program is an effort to increase the number of physics PhDs awarded to underrepresented minority students. The program utilizes a national network of doctoral granting institutions that provide mentoring for students to help them successfully complete their PhD programs. The program provides selected institutions (Bridge and Partnership Sites) with funding to build bridge programs and improve mentoring efforts.

Hodapp talked about the APS Conferences for Undergraduate Women in Physics (three day regional conferences for undergraduate physics majors) and also about their mentoring programs.

ACS Education Division: Resources supporting learners and educators
Nancy Bakowski (American Chemical Society-ACS) started by giving some background on ACS and its education division. She then discussed ACS education programs including the American Association of Chemistry Teachers (AACT), K-12 programs, higher education and scholars programs, and ACS awards and committees.

AACT is a national organization that supports K-12 teachers of chemistry with customized resources and professional development opportunities. The K-12 programs that were discussed included Project SEED, which offers summer research experiences to economically disadvantaged high school students, and the U.S. Chemistry Olympiad, a multi-tiered chemistry competition from which the top four students also compete on the international level.

Bakowski also talked about the ACS Scholars Program, which awards renewable scholarships to underrepresented minority students who want to work in chemistry or chemistry-related fields. She also mentioned their student chapters program and support for graduate students and post docs. Additional programs discussed included the Next Generation Science Standards (NGSS) and ACS Approval program.

Transforming Post-Secondary Education in Mathematics: An Update on our Activities
Tara Holm (Cornell University) presented an update on the work of the Transforming Post-Secondary Education in Mathematics (TPSE Math) group, including their strategic priorities and action plan. She discussed the renewed federal interest in higher education in general and in undergraduate STEM in particular and how time is of the essence in creating sustainable change in these areas.

TPSE Math's vision for the future is to make it so that 'post-secondary mathematics education will enable any student, regardless of his or her chosen program of study, to develop the mathematical knowledge and skills necessary for productive engagement in society and in the workplace.' The group has incorporated and has set up an administrative center at the University of Maryland.

TPSE Math strategic priorities include coherent pathways (lower division), enhanced/alternative pathways (upper division), new teaching strategies and graduate education. They are addressing these priorities in a few different ways including through the launch of a Mathematics Advisory Group that is mobilizing department chairs and also by building an action network beyond the math community.

Holm conducted some small group discussion among meeting attendees to discuss ideas for how TPSE and the AMS might support transformation in post-secondary education. Further discussion focused on a permanent AMS liaison to TPSE, stronger partnerships between TPSE and other groups and creating a clearinghouse for active learning programs and instructional practices.

Developing the open source on-line homework system WeBWorK within academia
Michael Gage (University of Rochester) began his presentation by describing the open-source online homework system known as WeBWorK. It is supported by the Mathematical Association of America (MAA) and the National Science Foundation (NSF) and was designed as an experimental platform which has evolved over 20 years into a tool used in 750 institutions. It utilizes the Open Problem Library (OPL), a curated collection of 30,000 math homework problems contributed by many faculty.

WeBWork strives to make homework more effective and efficient by providing students with immediate feedback on their answers and giving them the opportunity to correct mistakes in the moment. It was developed and is maintained by mathematicians and offers flexibility and extensibility.
Gage provided some problem examples and discussed WeBWork's goals and key features. He also discussed the program's significant impact and how open-source software has become an increasingly important part of education and research.

Gender disparity in STEM and the Role of Calculus
Jess Ellis (Colorado State University) spoke to the group about gender inequality in STEM, why it's important to note and how examining calculus persistence helps identify the problem. She began her presentation by discussing the leaking STEM pipeline and how Calculus I is often to blame. She referred to the Characteristics of Successful Programs in College Calculus project, a national survey by the MAA and supported by NSF that examines successful calculus programs. This survey identifies factors that are correlated with success in Calculus I including confidence and interest in mathematics, positive (or neutral) changes in enjoyment, and persistence to Calculus II.

Ellis presented data on men and women in the STEM pipeline over time and identified the disparity between them at different stages of their education even with similar interest in science and math early on. The data showed significant drop off of women continuing in STEM after completion of Calculus I. Surveys of students taken before and after Calculus I determined that women are not going on to Calculus II because of their lack of confidence and not their lack of ability.

With Calculus I giving insight into the experience of women, Ellis suggested solution strategies to address gender inequality in STEM that would include increasing the pipeline flow by involving young women in STEM earlier in their math career in an effort to increase their confidence, and also decreasing pipeline leaks by viewing introductory STEM courses as opportunities to increase confidence.

Bootstrap: A Unique Approach to Teaching Algebra through Programming
Emmanual Schanzer (founder and creator of Bootstrap) began his presentation by talking about the importance of algebra and how computer science can help student success in this subject. He described the Bootstrap program and how it teaches mathematical concepts through computer programming.

Currently reaching 15,000 students annually, Bootstrap is a curricular module for students ages 12-16, which teaches algebraic and geometric concepts through computer programming. It integrates algebra with computing fostering student growth in both subjects. Bootstrap can be integrated into a standard math class and provides complete lesson plans, student materials, software and teacher-training workshops. Lessons are aligned to state and national standards and are continually assessed for student math achievement.

Schanzer explained there are other Bootstrap programs as well, one for data structures, one dealing with lightweight data science and another with physics.

The Enriched Doctoral Training in the Mathematical Sciences (EDT) Program
Tie Luo (National Science Foundation) began by presenting some history of the Workforce Program at NSF's Division of Mathematical Sciences (DMS). He went on to discuss current DMS Workforce Programs including the Enriched Doctoral Training (EDT Program.

The goal of EDT is to enhance doctoral training in the mathematical sciences and to prepare doctoral students for a wide range of career paths. The program is in its third year with two awards having been given in 2015 and four awards in 2016. The 2017 proposal deadline date is in July.

Luo mentioned the Mathematical Sciences Graduate Internship program that is coming soon. This program will be done through the Oak Ridge Institute for Science and Education (ORISE) and is aimed at students interested in using advanced mathematical and statistical techniques to address world problems.

New Instructor Training at UMich: Promoting Engaged Learning
Gavin LaRose (University of Michigan) began with a history of the University of Michigan's new instructor training efforts over the past 35 years. He then spoke to their current training methods, the program's scope and its focus on active learning.

New instructors, mostly graduate students and post docs, receive one full week of training before regular classes begin. After training week, each new instructor is supported with day-by-day lesson plans, instructor meetings, class visits and midterm evaluation surveys. LaRose noted that they produce 50-65 new instructors each fall.

The training program addresses how to lecture, what to do with problem students and teaching logistics. Reasonable salaries are offered to new instructors in the program, who almost exclusively teach Pre-calculus and Calculus I. Class sizes are small and courses, homework and exams are uniform.

A Preceptor Program: Taking an Aim at Excellence in Introductory-Level Calculus Instruction
Robin Gottlieb (Harvard University) started by discussing the history and evolution of the Harvard preceptor program and its key elements. Established in 2000, the preceptor program allows Harvard to address the challenges of creating a successful calculus program.

Gottlieb talked about how preceptors impact calculus teaching and their importance to the coordination and administration of courses. She also discussed professional development and how they prepare graduate students to teach by conducting mandatory pedagogy courses for first year grad students, then teaching apprenticeship and calculus coaching programs.

Gottlieb reported that hiring challenges are a notable issue and that support for the program among department faculty is critical for successful implementation. She also discussed additional work that preceptors are doing and outlined some positions that former preceptors have taken.

Building Bridges to Belonging: Mindsets That Increase Participation, Achievement, and Learning in Math
Catherine Good (Baruch College, CUNY) defined a '*stereotype threat*' as "an unpleasant apprehension arising from the awareness of a negative ability stereotype in a situation where the stereotype is relevant and thus confirmable." She then examined this threat's ability to undermine the success of individuals in the learning process, particularly gender, race and ethnicity stereotypes that impact an individual's success in mathematics.

She explained that the impact of a *stereotype threat* does not come from the person's belief in the stereotype itself, but rather that simple awareness of a *negative stereot*ype is a burden to the individual that can change performance. Conversely, knowledge of a *positive stereotype* can cause a lift in performance. *Negative stereotype* not only questions a person's ability but also impact's their sense of belonging so that even if performance is high, the sense of belonging is low and the person becomes less engaged.

Good discussed ways in which vulnerability to a *stereotype threat* can be reduced including: 1) encouraging a growth mindset -- believing that intelligence can be developed and is not fixed (this for students as well as faculty/department/discipline) ; 2) encourage belonging based on effort/engagement – creating a classroom learning environment that values effort and engagement as a path to belonging; and 3) re-attribution for difficulty – encouraging students to attribute their difficulties to causes other than their own limitations.

Submitted by Anita Benjamin
Assistant Director, Washington Office
November 2, 2016

AMS Committee on Meetings and Conferences

Highlights of 2016 Meeting

The Committee on Meetings and Conferences (COMC) held its annual meeting on March 12, 2016, at the Hilton Chicago O'Hare Airport Hotel. Monica Nevins, chair, presided.

Actions taken by COMC include the following:

Meetings and conferences in cooperation with the AMS: As explained on the AMS website, "the AMS occasionally cooperates with meetings and[/]or conferences of other societies and other groups for specific scientific/engineering purposes. In cooperation, the AMS provides publicity for the events in its publications and on its website." At the COMC meeting in 2015, the Secretary had described some of the issues that such meetings can raise, particularly if they are held in countries where there are policies that violate human rights, and she expressed the Secretariat's desire for guidance in determining which meetings to approve. In response, COMC had chosen this program as the subject of its annual review. The members of the annual review subcommittee were Pierre Albin (chair), Monica Nevins and Illya Hicks. They recommended that the program be discontinued, since it lacked a clear benefit to the AMS. COMC agreed with this recommendation but also passed a resolution stating that, in truly exceptional circumstances, the Secretariat may recommend to the Executive Committee that AMS participate in some form. Both of these recommendations will be forwarded to the Council.

AMS-NZMS Maclaurin Lecture Series: In 2010 the American Mathematical Society (AMS) established a new lectureship exchange program with the New Zealand Mathematical Society (NZMS), called the AMS-NZMS Maclaurin Lectureship. Under the terms of the bilateral agreement, in alternate years a New Zealand based mathematician will visit the US and then a US-based mathematician will visit New Zealand. In April 2010 the Council approved this program for an initial period of 6 years, allowing three AMS lecturers to go to New Zealand, and three NZMS lecturers to travel in the US. The third AMS lecturer will visit New Zealand in 2017, which will be the last year of the program, unless the agreement is extended. COMC was asked to consider whether the AMS should continue this program. Although it deemed the program a success, COMC felt that the program should not be continued beyond the initial six-year period. This recommendation will be forwarded to the Council.

Prize venues: An agreement between the AMS and the Mathematical Association of America limits the number of prizes that may be given at the Joint Prize Session at the Joint Mathematics Meetings (JMM). Since the AMS is in the process of creating new prizes, it may become necessary to award some prizes in venues other than the Joint Prize Session. In 2014 a subcommittee of the Committee on the Profession (CoProf) was charged with identifying additional venues in which AMS prizes and awards could be presented. Acting on a recommendation from that subcommittee, CoProf approved in 2015 a resolution stating that that one of the five AMS Invited Address slots at the JMM should be devoted to a lecture by the recipient of the Steele Prize for Lifetime Achievement, or a designee, and

that the Prize be awarded at the start of the Invited Address, rather than at the Joint Prize Session. Acknowledging there were many details to be worked out, CoProf suggested that this recommendation be considered by COMC before being sent to the Council. COMC did not approve the recommendation and instead proposed creating a joint subcommittee of CoProf and COMC to deliberate further about the issue of prize venues. The members of that subcommittee are Richard Durrett and Christina Sormani from COMC and Alicia Dickenstein and Bryna Kra (Chair) from CoProf. That subcommittee's report was discussed by CoProf at its meeting in September 2016, and it will be on the agenda for COMC's next meeting in March 2017.

2017 Annual Review: For its next Annual Review, COMC chose the topic of conferences, institutes, and short courses. The members of the subcommittee conducting the review are Monica Nevins (chair), Rebecca Garcia, and Alan Reid.

Reports

COMC received and discussed several reports, including ones on JMM 2016, JMM Child Care grants, the Mathematics Research Communities program, the Summer Research Institute on Algebraic Geometry, and AMS Activity Groups. The JMM 2016 went well, and the child care grants were deemed a success, with 58 grants of $250 each being made. COMC discussed the idea of establishing a reduced JMM registration fee for new Ph.D.s, and there was some interest in making renewed efforts to activate the Activity Groups. It was noted that the Summer Research Institute, a three-week conference that drew about 750 mathematicians from 32 countries, was a great mathematical success, but also a significant drain on AMS staffing resources.

2017 COMC Meeting. The next meeting of COMC will be held on March 18, 2017, at the Hilton Chicago O'Hare Airport Hotel.

T. Christine Stevens
Associate Executive Director
November, 2016

AMS-NZMS Lectures Attendance (as of 12/9/2016)

2013 The first AMS-NZMS Maclaurin Lecture was at Boston College, Chestnut Hill, MA, on April, 6, 2013. Marston Conder, University of Auckland, "Discrete objects with maximum possible symmetry". **Attendance: 200**

Terrence Tao was the 2013 Maclaurin Lecturer, visiting New Zealand during summer 2013. **N/A**

2014 Maclaurin, University of North Carolina, Greensboro, NC, November 8, 2014, James Sneyd, University of Auckland, "The dynamics of calcium: Oscillations, waves, theories, and experiments". **Attendance: 60**

2015 Maclaurin, Ingrid Daubechies, *Duke University*. Below is the schedule of Daubechies' lectures in New Zealand. N/A. *Attendance unknown at present-will try to find out.*

- Victoria University of Wellington: Monday, September 14, 5pm, Public talk: *Surfing with Wavelets*; Tuesday, September 15, 12-1pm, Colloquium talk: *Time-frequency Localization for Non-stationary Signals*
- Massey University, Palmerston North: Wednesday, September 16, 12-1pm, Public talk: *The Master's Hand: Can Image Analysis detect the Hand of the Master?* Thursday, September 17, 1-2pm, Colloquium talk: *Bones, Teeth and Animation*
- Waikato University, Hamilton: Friday, September 18, 4:10-5pm, Colloquium talk: *Bones, Teeth and Animation*; 6:10-7pm, Public talk: *Mathematicians Helping Art Historians and Conservators*
- Massey University, Albany, Auckland: Monday afternoon, September 21: Institute seminar
- University of Auckland: Tuesday, September 22, 6-7pm, Public talk: *The Master's Hand: Can Image Analysis Detect the Hand of the Master?* Wednesday, September 23, 4-5pm, Colloquium talk: *Bones, Teeth and Animation*
- University of Canterbury, Christchurch: Friday, September 25, 11am-12, Colloquium talk: *Bones, Teeth and Animation*; 7-8pm, Public talk: *The Master's Hand: Can Image Analysis Detect the Hand of the Master?*
- University of Otago, Dunedin: Monday, September 28, 10-11am, Colloquium talk: *Sparsity in Data Analysis and Computation*; 5pm, Public talk: *Surfing with Wavelets*

2016 Maclaurin Lecture, Gaven J. Martin, Institute for Advanced Study, Massey University. **Attendance: 53**

2017 Maclaurin Lecturer, Ken Ono, itinerary TBD

Committee on the Profession
Annual Report
2016

The Committee on the Profession (CoProf) held its annual meeting on September 17-18, 2016, at AMS Headquarters in Providence. David Savitt, Johns Hopkins University, chaired the meeting. There was a very full agenda, the highlights of which are summarized below.

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

- **Committee on Academic Freedom, Tenure, and Employment Security (CAFTES):** CoProf's annual review, conducted by a subcommittee, dealt with CAFTES. It focused on whether CAFTES should continue to exist and, if so, whether its existing guidelines provide sufficient guidance. After discussing the report, CoProf voted to recommend the retirement of CAFTES. Although CoProf felt that issues of academic freedom, tenure, and employment security remain vitally important, it noted that the academic environment had changed since CAFTES was established, with most institutions now having formal processes for handling grievances and appeals. CoProf felt that a committee of the AMS would not be effective in addressing these issues and noted that other scientific professional organizations do not seem to have committees with comparable responsibilities. In addition, concerns were expressed about possible legal ramifications of actions of CAFTES.

- **Guidelines for the submission, refereeing, and publication of computer-assisted proofs:** Currently there are no established guidelines or policies about how to submit, referee, and publish mathematical articles with significant computational components. A joint subcommittee of CoProf and the Committee on Publications (CPub) drafted such guidelines, which were approved by CoProf and had been previously approved by CPub.

- **Charge of the Cole Prize Committee:** CoProf approved a clarification of the charge of the Cole Prize Committee. CoProf also asked its Prize Oversight Committee to review the language of the charge, including the term "North American journal."

- **Bertrand Russell Prize**: The recently created Bertrand Russell Prize honors "research or service contributions of mathematicians or related professionals to promoting good in the world" and recognizes "the various ways that mathematics furthers human values." CoProf endorsed the creation of a selection committee for the prize and approved its charge.

- **Ulf Grenander Prize in Stochastic Theory and Modeling:** After approving the prize description and guiding principles for this new prize, CoProf endorsed the creation of a selection committee for the prize and approved its charge.

- **Joan and Joseph Birman Fellowship:** CoProf discussed a proposal to establish a series of year-long, mid-career research fellowships for women, as a way of addressing the paucity of women at the highest levels of research in mathematics. CoProf recommended establishing

the Joan and Joseph Birman Fellowship and the creation of a selection committee, along with its charge.

- **Joint Committee on Women (JCW):** CoProf approved procedures for adding new organizations to those represented on JCW. It then approved the addition of the National Association of Mathematicians to JCW.

- **Mathematics Programs that Make a Difference (PTMD)**: Each year, CoProf recognizes at most two programs that succeed in bringing and keeping "more persons from underrepresented backgrounds into some portion of the pipeline beginning at the undergraduate level and leading to advanced degrees in mathematics and professional success." Recipients of the Mathematics Programs that Make a Difference Award receive a certificate, and an article about their program appears in the *Notices,* but there is currently no monetary award. The AMS has received a gift of $10,000 whose donor wishes to use it to fund the PTMD award. CoProf voted to request the Council to fund the Mathematics Programs that Make a Difference Award as an award in the amount of $1000, with up to one award being given each year.

- **Statistics on women mathematicians:** Each year, as required by a motion passed by the Council in 1985, the *Notices* publishes information about "the relative number of men versus women" in several categories, such as speakers in special sessions at AMS meetings. In an era in which gender identity is becoming more fluid, CoProf recommended that the question be framed in terms of gender identity, rather than "men versus women." It also asked the Council to consider whether it wishes to modify the categories about which information is gathered, or broaden the scope of the data that are collected (to include, for example, underrepresented minorities).

Other actions taken by CoProf:

- **Site visit program to improve the departmental climate for women and minorities:** The American Physical Society (APS) has programs under which institutions can request "site visits," for the purpose of improving the climate for women and minorities. CoProf discussed the report of a subcommittee that studied the possibility that the AMS develop a similar program, and it formed a new subcommittee for further investigation of the issues involved. These include estimating the financial cost to a department of having a site visit, the training and composition of the site visit team, and whether departments would make use of such a program.

- **Open-access policies:** Many institutions and funding agencies have copyright and open access policies that affect mathematicians. Jointly with CPub, CoProf voted to form a subcommittee to study such policies and to determine whether any steps should be taken to raise awareness among mathematicians or provide guidelines for dealing with these issues.

- **Mikhail Gordin Award:** CoProf discussed a donor's interest in establishing an award in honor of the Russian mathematician Mikhail Gordin and asked the Development Committee to provide more details about the nature and functioning of the award.

- **Nominating Committee:** CoProf discussed changes that the Nominating Committee had suggested to its charge, dealing with the article that is published in the *Notices* about each candidate for President. CoProf decided to appoint a subcommittee to review the language of the entire charge.

- **JMM panel**: CoProf will sponsor a panel at JMM 2017 entitled "Diversity and Inclusion in the Mathematical Sciences," at 4:30 – 6:00 p.m. on Wednesday, January 4, 2017. Panelists include: Carlos Castillo-Chavez, Arizona State University; Duane Cooper, Morehouse College; Kristin Lauter, Microsoft Corporation; and Talithia Williams, Harvey Mudd College. As the topic for its panel at JMM 2018, CoProf has chosen "Pathways for mathematicians to collaborate with scientists."

- **Possible new prizes**: CoProf discussed a report from its Prize Oversight Committee, which had been charged with creating a "wish list" of new prizes. It agreed to forward this report, with a summary of the CoProf discussion, to the Development Committee.

- **Annual review for 2017**: CoProf chose the Committee on Human Rights of Mathematicians as the topic for its annual review in 2017.

Other business:

- **Subcommittee reports:** CoProf discussed a report from the Committee on Members and Member Benefits and stressed the importance of reversing the decline in AMS membership. It also discussed a report from a subcommittee, jointly established with the Committee on Meetings and Conferences, that explored possible venues for the awarding of AMS prizes.

- **Postdoctoral hiring practices:** CoProf expressed support for the program in which the AMS facilitates an arrangement under which institutions can agree not to require applicants to respond to postdoc job offers before a specified date. Prompted by a suggestion from a member of the mathematical community, CoProf also discussed the possibility of implementing a stable matching algorithm for postdoctoral positions but decided that such a system would not be feasible in mathematics.

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

- **Next meeting:** The Committee on the Profession will hold its next meeting on October 14-15, 2017, at the Hilton Chicago O'Hare Airport.

T. Christine Stevens
Associate Executive Director
November, 2016

Committee on Academic Freedom, Tenure, and Employment Security (CAFTES)

General Description
- Committee is standing
- Number of members is up to nine
- Term is three years

The original charge (but see Rules below) was prepared by the Secretary on instruction from the Council and with editorial revisions, is as follows:

> CAFTES is prepared to consider cases of individuals who believe they have been wronged in regard to some academic freedom or employment situation. The main function of CAFTES is to determine the facts of the case, rather than becoming a party to the dispute. There are certain guidelines which the committee follows. If a case is better handled by some other organization such as the AAUP or a government agency, CAFTES will guide the aggrieved person to the organization. The committee will only consider cases brought by regular members of the American Mathematical Society. CAFTES also cannot respond to anonymous complaints, although they will make every effort not to violate confidentiality for those aggrieved members who request it. The committee requests a complete vita of the complainant, details of the complaint including copies of all available documentation, and names of individuals whom CAFTES could contact for additional information on the institutional procedures on appointments and promotions or for verification of undocumented claims.

Principal Activities
The Committee should give substantial consideration to cases referred to it by the Council or the Executive Committee.

The Committee should give preliminary examination to cases which come to it from other sources, such as by direct application from an individual who thinks himself aggrieved. The preliminary examination is to determine whether the case merits substantial consideration.

On the other hand, the Committee should not consider cases for which there is another more natural point of reference. As an example, a case of inequitable compensation for reason of race or sex has natural points of reference, such as the Department of Health, Education, and Welfare under the Civil Rights Act and the executive orders based upon it. Such a case does not need the services of this committee. Cases in the natural domain of the American Association of University Professors probably do not require the services of this committee.

The Committee should not restrict its attention narrowly to cases between employer and employee. For example, the Committee might receive a complaint from one who was considered for employment but not employed, of such nature as to merit investigation.

The Committee should restrict itself to cases in which the aggrieved is an American member of the Society. Canadian and Mexican members are on a par with the American members in the United States, in that they pay full dues (no membership by reciprocity) and geographically have as ready access to Society amenities, such as meetings, as U.S. members. However, and I speak from experience, the Committee should proceed with great caution if one party to a dispute is a Canadian institution. The same remark, but not my experience, probably applies if it is a Mexican institution. The Canadians, at least, are sensitive to their position of sleeping in the same bed with an elephant.

The next question is how to investigate and what not to do. These matters will clearly depend on the case itself. As a general procedure, the Committee should determine facts and report to the Council, perhaps with a recommendation to publish either their report or a summary of it that they prepare for publication.

Other activities
The Committee is not an arbitration board. It is not supposed to be engineering a solution to a problem although it is well recognized that a clear statement of facts is sometimes useful in effecting solutions or in preventing similar problems from arising at another time or place.

The Committee is not a party to a dispute. It should not espouse the case of any party to a dispute lest it undermine its usefulness in other disputes.

The Committee should sometimes avail itself of the services of others as investigators, perhaps delegating an investigation in the same manner as the AAUP Committee on Academic Freedom and Tenure, and reviewing the work of its delegates, both because experts may be available and because the work might easily exceed their capacity.

The financial aspect of the Committee's work must be considered. The Council and the Committee must be aware that investigations take both time and money. It has been the experience of the Committee on Dismissed Mathematicians that occasionally a site visit is an essential part of an investigation. The Committee should have this in mind when it chooses whether to investigate directly or to delegate, since both the time and the travel cost of a site visit might be reduced by the latter course.

> The original charge was modified by a report entitled *Report of the Committee to Write Rules for CAFTES* and endorsed by the Council of 26 January 1977 as a three year trial with review at the Council of January 1980. The Rules are attached.

Miscellaneous Info
The Committee will have a small budget, so that correspondence, telephone calls, and similar items can be reimbursed. They will have the convenience of a telephone credit card. Their larger financial needs should be referred to the Agenda and Budget Committee through the Secretary, who is a member. At that level it can be decided whether funds, as for site visits, should be immediately forthcoming or budgeted by the Trustees.

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

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

Authorization
Council Minutes of 29 August 1972, p.10; Council Minutes of 26 January 1977, p.3;
Council Minutes of 14 April 1983, item 4.3, p.3.
updated 10/90; 8/94; 5/95; 8/09; 7/13 updated membership and edited Note to the Chair; removed passage concerning the petition table

Past Members
A list of current and past members is available here:
http://www.ams.org/about-us/governance/committees/caftes-past.html

Report of the Committee to Write Rules for the Operation of CAFTES

The possible activities of CAFTES are presented roughly in the order of increasing degree of involvement of the Society. No attempt is made to specify directly the types of cases to be considered. In fact, it seems desirable that every case should be accepted for possible consideration and that whatever immediate advice or help CAFTES is able to provide should be offered.

The following material, which is grouped into seven sections, contains suggestions for the organization of CAFTES and a proposal for the establishment of a working arrangement with the AAUP, as well as proposed rules for the operation of CAFTES. It also falls naturally into two parts. Part I concerns the regular business of CAFTES and Part II more controversial actions that require Council authorization. In addition, the final section consists of several items, relevant to CAFTES' operation, on which the Committee might appropriately have made recommendations but, for one reason or another, did not reach an agreement.

PART I

1. Organization of CAFTES

It is recommended that CAFTES be increased to nine members appointed by the President for (staggered) 3-year terms with possible reappointment. The business of CAFTES should be directed by a 3-member executive committee appointed by the President and including the chairman. The membership of CAFTES should include individuals who are interested in, and have some experience in dealing with, the various kinds of complaints that arise. (Ultimately, such experience might be the result of working as a member of CAFTES.) The Chairman of CAFTES shall report regularly to the Council on CAFTES.

2. Relationship of CAFTES to the AAUP

It is expected that, in a substantial number of cases, CAFTES might appropriately request the cooperation of the AAUP. To facilitate this process, it is proposed that a formal agreement be negotiated by the President of the AMS with the President and General Secretary of the AAUP (possibly along with other senior members of both organizations) establishing a working arrangement between CAFTES and the AAUP staff. The main objection here is to obtain prompt and efficient AAUP consideration of cases involving mathematicians. CAFTES would sponsor elected cases to the AAUP after careful preparation of the initial materials. CAFTES should be able to exert some influence on, as well as follow, the progress of each of its cases within the AAUP. In addition, CAFTES would supply the AAUP with a list of mathematicians qualified and willing to advise and participate in AAUP investigations. The opportunity, within a good working arrangement between CAFTES and AAUP, for the exchange of advice and information should be advantageous to everyone concerned. There are indications from the AAUP that such an arrangement would be both possible and desirable from their point of view. There is good reason to insist, however, that the agreement be formalized at the highest levels of both the AMS and the AAUP in order to insure its success.

3. Procedures for the submission of complaints to CAFTES

CAFTES should prepare an information form (or request for information) the completion of which (to the extent possible) will be required of each individual who wishes to submit a complaint to CAFTES. The form should include such items as the following:

> (a) Complete vita of the complainant.
>
> (b) Details of the complaint, including copies of all available documentation, with special emphasis on written evidence concerning terms of appointment, etc., and names of individuals whom CAFTES could contact for additional information or verification of undocumented claims.
>
> (c) Appointment, promotion and evaluation procedures of both the department and institution involved in the dispute (when relevant to the complaint) or names of persons from whom such information might be obtained.

When CAFTES agrees to consider a case, the department and institution involved should be contacted immediately. They should be advised of the complaint and requested to provide whatever routine information they have concerning the dispute, including any information concerning administrative procedures, etc. that the complainant was unable to supply. CAFTES' role here must be strictly non-partisan with no suggestion of accusation or threat of action.

The type of information required by CAFTES with respect to a complaint should be published in the *Notices* along with a statement outlining CAFTES' purposes, etc. Complaint "forms" should be readily available both to departments and individuals. We regard the form as very important, not only as an efficient device for obtaining quickly necessary case information, but as an educational device. For example, it should alert both departments and prospective employees to the importance of specifying in writing the conditions of appointment as well as prospects and procedures with respect to reappointment and promotion. Documentation of this kind might reduce significantly the misunderstandings that give rise to complaints.

It is recognized that adequate information concerning cases other than the standard ones involving reappointment, etc. (e.g. discrimination cases) may be very difficult, or even impossible, to obtain.

4. Classification of cases and preliminary action by CAFTES.

No complaint submitted to CAFTES should be considered in detail until the initial information form has been filled out as completely as possible under the circumstances. However, unnecessary delays should be avoided, since the speedy processing of each case within the statutory time limit is of utmost importance.

Except for the elimination of obviously frivolous or totally unsupported complaints, each completed form shall be examined by at least two members of the committee and placed in one or more of the following categories:

> C1 Cases that should be dropped (e.g., for lack of evidence or because there appears to be no legitimate complaint).
>
> C2 Cases for the AAUP or other established agency.

C3 Cases for possible court action.

C4 Cases for mediation either by CAFTES or the AMS.

If the number of complaints is large, then limited resources may force the Committee to set up a priority schedule for further consideration of cases. Priorities, if necessary, should be proposed by the CAFTES Executive Committee and approved by the full committee.

In general, the role of CAFTES in all complaints should be strictly impartial and unbiased toward either party in the dispute. However, in certain cases, where the complainant has not had access to internal grievance or similar proceedings (required, e.g., by Title IX in sex discrimination cases), CAFTES may respectfully urge the institution to provide such access. This should not be accompanied by any suggestions of bad faith on the part of the institution or threats of action by CAFTES. Also, for cases in which a university administration has overruled a departmental recommendation, a special effort should be made, but only at the request of the complainant, to obtain a detailed statement of reasons for the action. [See the AAUP 1966 Statement on Government of Colleges and Universities, AAUP Bull, 52 (1966), 375-379.] This statement was endorsed jointly by the AAUP, the American Council on Education and the Association of Governing Boards of Universities and Colleges.

The CAFTES Executive Committee shall review the suggested classification of each complaint and initiate the following actions with the approval of the full Committee.

For a complaint in C1, CAFTES should explain carefully to the complainant the evident weaknesses of the case and recommend that he consider dropping it.

For a complaint in C2, CAFTES may offer to sponsor the case with the appropriate agency.

For a complaint in C3, CAFTES may recommend that the complainant contact a lawyer and investigate the possibility of legal action. (For cases that do go to court, the council has voted that CAFTES may recommend that an amicus curiae brief be submitted, and has also established loan procedures.)

For a complaint in C4, in which the difficulty appears to be based on differences that might admit of routine settlement through a neutral party, CAFTES may contact the institution and attempt to arrange an amicable settlement. If the complaint involves more substantial differences that might, however, be resolved through a more formal mediation attempt by the AMS, then CAFTES may request that the President of the Society initiate such a mediation process. Since mediation can lead to delay that might be disadvantageous to the complainant, CAFTES might suggest a deadline, appropriate to the case in question, for completion of the mediation process.

It is recognized that a case, as it develops, may shift from one category to another and so may need to be reexamined periodically.

PART II

5. Investigation by the AMS.

There may remain certain cases that cannot be resolved by any of the procedures outlined in Part I, but which, in CAFTES' judgment, deserve further attention and possible action by the AMS. It is obviously important that any major action of the Society with respect to disputes between individual mathematicians and their institutions be backed up by carefully documented evidence. The required documentation may in some cases consist of material produced in an investigation conducted by the AAUP or other agency. However, if such material is not available, then it may be necessary for the AMS, either independently or jointly with the AAUP to make an on-site investigation.

A request by CAFTES for an investigation of a given case, either by the AMS alone or jointly with the AAUP must be submitted to the Council or the Executive Committee of the Council for authorization.

The report of the investigating team shall become a part of CAFTES' report on the case to the Council. In its report, CAFTES may recommend one or more of the actions outlined in Section 6.

6. Possible AMS actions concerning unresolved disputes.

CAFTES may, in a suitable case, recommend to the Council at various times that it take one or more of the following actions:

A brief statement might be published in the *Notices* outlining the facts of the given case but with no value judgments on the merits of the case.

The CAFTES' report to the Council might be published in the *Notices*.

The Council might pass a resolution identifying certain common practices or customs in the mathematics community. It might also declare its support of certain standards or principles. In a given case, it might vote to find that a particular action by an institution has not been in accord with the common practices, customs, standards or principles and might publish that resolution in the *Notices*.

The Council might authorize the submission of an amicus curiae brief for cases that are being tried in court. It might also offer the services of expert witnesses to either party or to the court.

7. Unsettled Questions.

In this section we outline several items that have either been discussed by the Committee or communicated to the Committee in one form or another. They are obviously relevant to CAFTES' activity but do not appear explicitly in the suggested rules. Some are also controversial to an extent that the Committee was unable to agree on recommendations concerning them.

(a) The status of CAFTES within the AMS. It has been proposed that the members of the Executive Committee of CAFTES be made *ex officio* voting members of the Council. This proposal was discussed at length within the Committee but no agreement on a recommendation was reached.

(b) Types of cases to be considered by CAFTES. There have been several carefully worked out proposals that certain types of complaints be considered by CAFTES (e.g. Karl Norton's resolutions) that deserve more attention than the Committee was able to give them. Although the rules proposed here do not specify the types of cases to be considered, the understanding is that essentially all complaints, regardless of type, would be accepted for possible consideration, examined by at least the Executive Committee of CAFTES and records kept on each case. The decision as to which cases would be actively pursued is left to CAFTES, although the Council may wish at some point to instruct CAFTES on the matter. In any given case, such decisions are always subject to possible review by the Council using CAFTES' case records.

(c) Investigation. The Committee is in general agreement, that as stated in the proposed rules, CAFTES must obtain approval of the Council, or the Executive Committee of the Council, before initiating an on site investigation. However, there was not general agreement on whether such investigations should be permitted in the first place, or, if permitted, exactly how they should be conducted. Some members of the Committee would support a judgmental type of investigation while others would insist that an investigation be limited to the gathering of facts in the case without bias toward either the complainant or the accused.

(d) Actions with respect to unresolved disputes. The several actions that CAFTES might recommend to the Council, listed in Section 6, have been suggested in one form or another by various interested members of the AMS. Although generally recognized as possible appropriate actions in certain situations, they have not been fully discussed within the Committee and there is far from general agreement on exactly what the actions of the Council should be in any given case. On the other hand, there has been extensive discussion concerning the possibility of censure by the AMS. Some members of the Committee would regard censure as an appropriate action in certain cases, while others believe that censure by the AMS would be inappropriate for any case, however complete the documentation or flagrant the violation. There is also opposition to a suggested substitute for censure, viz. a Council resolution "finding at fault," as being essentially equivalent to censure.

Members of the Committee:

Charles W. Curtis, Murray Gerstenhaber, Edwin E. Moise, M. Susan Montgomery, Calvin C. Moore, Karl K. Norton, and Charles E. Rickhart (Chairman)

D R A F T

To: Carla D. Savage, AMS Secretary
From: Jeanette DiScala, J.D., Ph.D., Consultant, Office of the AMS Secretary
Date: September 15, 2016
Re: CoProf Meeting on September 17, 2016, Item 2 , CAFTES

Background

In anticipation of the upcoming CoProf meeting, you asked me to review the current CAFTES charge found on the AMS website, with a view towards formulating questions. This review prompted a further investigation of CAFTES' organizational history. Questions are listed after the organizational history summary below.

CAFTES History

According to *A History of the second Fifty Years American Mathematical Society 1939-1988* (Pitcher, 1988), the standing Committee on Academic Freedom, Tenure, and Employment Security (CAFTES) was initially authorized in August of 1972. In 1971, *Notices* editors were contemplating publishing a letter from a Professor, concerning a dispute the professor was having with his university. After initially declining, the editors agreed to publish the letter, with comments from various individuals, and subject to editing. While this was happening, and prior to publishing, the Trustees sought legal counsel, and decided that "publication of the letter would not be in the best interests of the Society from either a fiscal or a legal point of view" (Pitcher 290).

In response, in 1972 the Council authorized the President to appoint CAFTES, and referred the above dispute to the Committee.[1] Council instructed the Secretary to prepare the original CAFTES charge. AMS originally envisioned cases coming to CAFTES via Council or Executive Committee referral. If a case came directly from an individual, CAFTES should give the case a:

> preliminary examination to determine whether [it] merited substantial consideration. The committee was not to consider cases where there is a more natural point of reference, such as a government agency or the American Association of University Professors. The services of the committee were primarily for American members of the Society who are aggrieved. *The committee was to **determine facts** and report to the Council, possibly with a recommendation to publish some version of the report. The **Committee**

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[1] In 1974, a Committee on Legal Aid (CLA) was created that was authorized to "certify recommended cases for financial assistance in legal problems" (Pitcher 290). It was later proposed that CAFTES and CLA merge, since CAFTES at the time was overworked and CLA was underutilized. There was no action at that time; however, the CLA was disbanded in 1982, "with the understanding that the Trustees would function directly were it necessary" (Pitcher 290). In addition, since 1971 there was a Committee on Dismissed Mathematicians, which was charged with helping mathematicians find new positions when they had "been dismissed from their positions under unusual circumstances" (Pitcher 290), and CAFTES was asked to cooperate with this committee.

was not to be an arbitration board and was not to be a party to disputes*. It could call on experts.* (Pitcher 291) (Emphasis added).

In August 1975, Council minutes also include the following references to CAFTES, regarding AMS's potential participation in preparing an amicus brief (friend of the court brief), in cases that AMS deemed to be "especially meritorious:"

> The Committee on Academic Freedom, Tenure, and Employment Security proposed the following resolution:
>
> In an especially meritorious case, where CAFTES feels that the support of the AMS would be of vital significance to the court, on recommendation by CAFTES and approval of the Council, the Legal Aid Committee shall be authorized to file an AMICUS CURIAE brief. Professor Paul Mostert, Chairman of the Committee, presented the argument. After extended discussion, the motion was defeated.
>
> Professor Paul Halmos proposed a resolution that the Council approve the filing of an AMICUS CURIAE brief in the [Boston College], if and when that case goes to court. It was on the agenda conditionally for discussion and Halmos stated that he was proposing it in order to be able to clarify issues by speaking against it. After extended discussion, the motion passed, with the understanding that the brief would be reviewed by the Council or, if that were not possible, then by the EC. An account of the situation of Professor . . . is attached. (Council Minutes, August 1975)

It seems that, at this time, there was interest in filing an amicus brief in this particular case, but not in expanding this CAFTES function generally.

In January 1976, a Council member offered a set of CAFTES motions as follows:

> 1. MOTION: The Council recommends to the Comm. on Academic Freedom, Tenure Employment Security that complaints of the following types by mathematicians be investigated by CAFTES:
> (a) An allegation that an **unprofessional criterion** (other than financial exigency) was used in making a decision on the complainant's professional status. (CAFTES is to determine whether the criterion is unprofessional.)
> (b) A complaint that a university administration rejected a recommendation by the mathematics department concerning **appointment, reappointment, promotion, or tenure,** unless the rejection is based on clearly formulated and compelling reasons to which neither the department nor CAFTES takes exception.
> (c) An allegation that false or distorted information was used in making a decision on the complainant's professional status.
> (d) An allegation that the complainant's **academic freedom** was violated.
> (e) An allegation that the complainant was **denied due process** within his institution.

2

(f) An allegation that the complainant's tenure or contract was violated.

(g) **Any other complaint which, in the judgment of CAFTES, deserves investigation.**

2. MOTION: The Council recommends that any investigation by CAFTES include a letter of inquiry about the facts to each member of a list of persons supplied by the complainant. This list may, at the discretion of CAFTES, be limited to five persons.

3. MOTION: The council recommends that CAFTES give priority to cases involving denial of reappointment **or tenure.**

4. MOTION: The Council recommends that in asking a complainant to furnish evidence supporting his complaint, CAFTES give due consideration to his degree of access to such evidence.

5. MOTION: The Council recommends that in setting priorities for investigation and intervention, CAFTES give considerable weight to complainants **achievements in research.**

6. MOTION: The Council recommends to the President that CAFTES consist of at least 6 persons.

7. MOTION: The Council respectfully requests that the Committee on Dismissed Mathematicians submit a report on its activities from the time of its inception. This report should be presented in time for discussion at the Council meeting in the Spring of l976. (Council Minutes, January 1976, emphasis added)

The January 1976 Minutes further state:

Following some general discussion, there seemed to be **agreement that motions l through 6** should be considered by a committee prior to consideration by the Council. A motion was passed requesting the President to appoint an ad hoc committee to write rules of operation for the Comm. on Academic Freedom Tenure, and Employment Security. In so doing, it was understood that the proposed rules would be brought to the Council for approval. **It was agreed that one or more individuals opposed to the expansion of the charge CAFTES should be appointed to the ad hoc committee.** (Emphasis added)

This meeting was pivotal in what would eventually become an expanded CAFTES' charge. Clearly, not everybody supported such an expansion. The minutes also indicate mention of protection of tenure, and especially, research and academic freedom, which are subjects well within the AMS mission. However, the language of the January 1976 motion goes well beyond that and is rather broad, including issues of appointment [1(b)], due process [1(e)], and "[a]ny other complaint which, in the judgment of CAFTES, deserves investigation" [1(g)].

Next, in April 1976 the following motion was submitted to Council:

Professor Lee Rubel had asked that the following resolution be placed before the Council: It is moved that CAFTES (the Committee on Academic Freedom, Tenure and

3

Employment Security) be dissolved. However, he did move that CAFTES shall not concern itself in the future and shall immediately discontinue all present concern with individual cases of alleged violation of academic freedom, or of tenure rights, or of violation of correct procedure in employment security matters in all cases where other avenue of approach like the American Association of University Professors, American Civil Liberties Union, United States Department of Health, Education and Welfare, or the courts of the law have not been fully utilized.

The Council then recessed and considered the motion in committee of the whole, which returned to the Council a subsidiary motion that the motion of Professor Rubel be referred to the Committee to Write Rules for CAFTES. The subsidiary motion was passed. (Council Minutes, April 1976)

At this time, there was some discussion regarding whether CAFTES should be dissolved; however, Council was not ready to do this, and instead, adopted the motion that emphasized that cases first should be directed to the AAUP and state government agencies, before receiving CAFTES services.

In January 1977, the "Report of the Committee to Write Rules for the Operation of CAFTES" was presented to Council. The minutes state that:

It was presented as an unanimous report, meaning, it developed, that all members concurred though not all supported every statement in it. There was general discussion. . . Past President Bers provided some historical background and then moved that the Council accept the report as the rules under which the Comm. on Academic Freedom, Tenure & Employment Security should operate. **The motion was amended by consent to be a three year trial with review at the Council of January l980.** In this form, the motion was passed. The committee was discharged with thanks.

It was agreed that cases currently under investigation by CAFTES should be bound by these rules just adopted and that the investigation of each should be brought into conformity with the rules. Prof. Mostert reported briefly on the current status [two] cases . . . previously reported several times to the Council. There were two issues raised. One was a proposal that the Council adopt a Statement of Principles on Hiring and Tenure Policy prepared by the Mathematical Association for its Executive Committee. The statement is attached. When presented, it was accompanied by two footnotes. These are part of the attachment. However, the Council endorsed the statement as an AMS statement later in the meeting, specifically, without the footnotes. The second issue was part of the use of AMICUS CURIAE briefs. It was noted that the filing of a brief had been authorized in the instance of Sopka but had not been carried out because CAFTES finally deemed it unnecessary. Prof. Green moved to authorize the preparation of a brief

4

in the case of . . . with approval of submission of the prepared brief to be sought by mail ballot. The motion was approved.[2] (Council Minutes, January 1977, emphasis added)

While The Council was ready to pass this motion and establish this broad and detailed committee charge, Council wanted this to be a trial period, with a review after three years to determine its effectiveness.

In January 1980, Council did, in fact, revisit the CAFTES charge, albeit briefly:

> 7.2 RULES FOR CAFTES: When the Council adopted the Rules for the Operation of CAFTES (Committee on Academic Freedom, Tenure, and Employment Security) in January 1977, it was for a three year trial period, which ended in December 1979. The question arose how to consider the outcome of the trial and whether to alter or extend the rules. A set of rules is attached. A letter of comment from Mary Gray, Chairman of CAFTES, is attached. **The Council voted to extend the life of the Rules for the Operation of CAFTES indefinitely**. (Emphasis added)

Based on the organizational history above, it seems that the original interest in creating this committee stemmed from *specific cases* going on at the time in 1972 (Yeshiva and Technion) and later interest in filing an amicus brief in the Boston College case (August 1975) . Details of the charge and areas of responsibility grew as other committees disbanded (Committee on Legal Aid) and more documents were drafted.

In September 2014, CoProf recommended that Council approve (relatively cosmetic) changes to the existing CAFTES charge.[3] At the January 2015 Council meeting, and prior to Council's

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[2] It is noteworthy that in the "Report of the Committee to Write Rules for the Operation of CAFTES" Part II, Section 6. Possible AMS actions concerning unresolved disputes, it lists the following:
1. *A brief statement might be published in the Notices outlining the facts of the given case but with no value judgments on the merits of the case*.
2. The CAFTES' report to the Council might be published in the Notices.
3. The Council might pass a resolution identifying certain common practices or customs in the mathematics community. It might also declare its support of certain standards or principles. In a given case, it might vote to find that a particular action by an institution has not been in accord with the common practices, customs, standards or principles and might publish that resolution in the Notices.
4. The Council might authorize the *submission of an amicus curiae brief* for *cases that are being tried in court*. It might also offer the services of expert witnesses to either party or to the court.

(Emphasis added). Pitcher (291) also notes two cases in which CAFTES had been involved, where details were published in *Notices,* one involving the closing of a mathematics graduate program at Yeshiva University (February 1979) and one involving the initial dispute that led to the formation of CAFTES, a case between a Professor and Technion (Israel Institute of Technology) (February 1983).

[3] A copy of this memorandum can be found as Attachment #2.1 of the CoProf Agenda for September 17, 2016

approval, the CAFTES Chair submitted a report (December 5, 2014 Memorandum from Joseph Watkins to Council)[4], with concerns and recommendations. These included:

- The Committee has no budget.

- The Committee members have no avenue to consult for legal expertise.

- The Committee members have no background among its members on methods of investigation.

- The formal procedures between the American Association of University Professors (AAUP) and the American Mathematical Society, indicated as desirable in the Report of the Committee to Write Rules for the Operation of CAFTES, do not seem to have been established.

- The Committee had concerns regarding the ethics and the effectiveness of a variety of modes of inquiry – Should Department or University administrators be contacted? Should selected interviews be made? Should Committee members ensure that their methods do not compromise the complainant's conditions of employment? How do Committee members anticipate, manage, and resolve conflicts of interest?

  [The] Chair [made] the following suggestions.

- Train the Committee members on rules of conduct, facilitated by the AAUP having as a part of the training information on legal proceedings.

- Give the Committee members access to legal counsel for advice on cases.

- Budget for face-to-face meetings to discuss cases.

In addition, the January 2016 Council Minutes contain an attached November 2015 Committee on the Profession Annual Report (submitted by T. Christine Stevens, Associate Executive Director) which states:

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

Now, CoProf and Council are considering whether CAFTES should still exist, and if so, whether the committee has enough guidance.[5]

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[4] A copy of this memorandum can be found as Attachment #2.2 of the CoProf Agenda for September 17, 2016

[5] See Memorandum to AMS Committee on the Profession from the CoProf subcommittee on CAFTES, dated, August 21, 2016, re the Review of the charge to CAFTES, which can be found as Attachment #2.3 of the CoProf Agenda for September 17, 2016

Questions

Initial questions and concerns that prompted investigation into the history of CAFTES.

- Why did AMS initially establish CAFTES? Its charge is *very* broad. Academic Freedom, Tenure, and Employment Security are different things. The Committee title and charge beg the question: should it be within AMS's purview, to be involved in all three of these areas? What was the organizational history that led to this decision?

- What does this committee *add* to the resources and processes that exist already, which address these issues (*e.g.,* AAUP, EEOC, etc.). What gap does AMS see itself serving?

- Why has CAFTES had so few "customers" over the years? Is it because CAFTES refers most of its cases to other organizations, or is there very little interest in/demand for the services that CAFTES provides? What are the primary services that CAFTES has provided over the past decade? Are these cases related to academic freedom and/or tenure, or are they other types of employment cases?

- CAFTES members' roles are defined as investigators and possibly as mediators. What training do the members have in these areas? Members should either be trained in professional investigation and/or mediation procedures before taking on these cases. What does CAFTES do with the information it finds in an investigation? In the alternative, AMS could hire professional investigators or mediators. Is there a budget for this?

- In the "Report of the Committee to Write Rules for the Operation of CAFTES," The Committee categorizes its cases C1 -- C4 as follows:
    - **C1** Cases that should be dropped (e.g., for lack of evidence or because there appears to be no legitimate complaint).
    - **C2** Cases for the AAUP or other established agency.
    - **C3** Cases for possible court action.
    - **C4** Cases for mediation either by CAFTES or the AMS
  What expertise do committee members have to determine that there is a lack of evidence, that a case should be mediated, or that a case may go to court? Do they consult with an employment or litigation attorney before making these determinations?

- The "Report of the Committee to Write Rules for the Operation of CAFTES" also states:

    *"For a complaint in **C1**, CAFTES should explain carefully to the complainant the evident weaknesses of the case and recommend that he consider dropping it."*

  Again, what expertise do committee members have to determine if a complainant has a weak case? Do CAFTES members consult with an employment law attorney before so advising a complainant? If not, is the AMS concerned about potential litigation by the complainant against AMS? Has AMS discussed this possibility with an attorney?

7

> *"For a complaint in **C3**, CAFTES may recommend that the complainant contact a lawyer and investigate the possibility of legal action. (For cases that do go to court, the council has voted that CAFTES may recommend that an amicus curiae brief be submitted, and has also established loan procedures.)"*

Are there sufficient funds to pay for a lawyer to write an amicus brief? Has this ever been done in the history of the Committee? Are there funds to provide loans to complainants?

> *"For a complaint in **C4**, in which the difficulty appears to be based on differences that might admit of routine settlement through a neutral party, CAFTES may contact the institution and attempt to arrange an amicable settlement. If the complaint involves more substantial differences that might, however, be resolved through a more formal mediation attempt by the AMS, then CAFTES may request that the President of the Society initiate such a mediation process. Since mediation can lead to delay that might be disadvantageous to the complainant, CAFTES might suggest a deadline, appropriate to the case in question, for completion of the mediation process."*

What expertise do the Committee members or the President have to conduct such a mediation? What criteria to Committee members use in determining if a delay might disadvantage a complainant? Do Committee members consult with an employment or litigation attorney?

> *"CAFTES may, in a suitable case, recommend to the Council at various times that it take one or more of the following actions: A brief statement might be published in the Notices outlining the facts of the given case but with no value judgments on the merits of the case. The CAFTES' report to the Council might be published in the Notices."*

Even given the intent to make "no value judgments on the merits of the case," is AMS concerned about potential legal exposure (for libel) regarding publishing anything about a given case? Has the committee ever done this? If so, did it contact an attorney before doing so?

Summary

In summary, there are risk management concerns regarding current and potential CAFTES activity. It is recommended that Council think carefully about the original intent for the Committee, what gaps Council believes CAFTES fills, how the Committee actually has been functioning, and if the Committee is needed. If Council believes that it is needed, CAFTES needs resources for regular training of members, legal consultation, and possibly for professional investigators and professional mediators.

Lastly, there is understandable interest in having Mathematicians involved in issues involving academic freedom, research, and tenure. To what extent should CAFTES, Council and the AMS be involved?

8

Procedure for a New Organization to Join the Joint Committee on Women in the Mathematical Sciences (JCW)

The Joint Committee on Women (JCW) serves primarily as a forum for communication among member organizations about the ways in which each organization enhances opportunities for women in the mathematical and statistical sciences. As such, member societies are exclusively mathematical in nature. Each member organization is represented by two members, each serving three year staggered terms, and each member society commits to sending one or two representatives to a September meeting in Chicago. In addition, all member organizations share the cost of a meeting room and working lunch for this annual JCW meeting. The JCW also meets at the Joint Mathematics Meetings each January, although this meeting is not required, and also via phone conference calls 1-2 more times during the year.

If a new organization would like to join the JCW the following steps are required:

1. The prospective organization should submit a written (email is fine) request to join the JCW, expressing the organization's rationale for joining the JCW.
2. The prospective organization should verify that it accepts the financial commitment of sending one or two (preferably two) members to the September meeting, and of sharing the meeting room and meal costs.
3. The JCW chairs will do a brief analysis to determine any related costs associated with adding a new society member and what the advantages or disadvantages of adding the new society would be.
4. The chairs then share the request and their analysis with their member representatives at the annual meeting of the JCW in September, and discuss the request. If the JCW decides by majority vote to proceed, the members take the request to their member societies for discussion. The representatives will consult with the governing body and make a decision on how the society wishes to vote.
5. At the next JCW meeting (either in person or conference call), a tally will be taken on whether each member society agrees with the addition of the new organization.
6. If there is significant concern from one or more member societies (but not the majority), the JCW will investigate the concern and determine if it is shared among other member societies, and each society will address the decision in light of the new information.
7. At the next JCW meeting, either in person or conference call, and within 6 months of the initial tally, a second tally shall be taken on whether each member society

agrees with the addition of the new organization.

8. If a majority of member societies approve, then the new organization will be
    added, and if not, then the request will be declined.

If the JCW decides that a new organization may be a good addition to the committee, then
the co-chairs of the JCW will prepare and send a letter to that organization stating what
the JCW does and why the JCW thinks the new organization would be a good addition to
the JCW. The letter will encourage the organization to apply.

American Mathematical Society
Committee on Publications
2016 Annual Meeting
SUMMARY REPORT

The annual meeting of the AMS Committee on Publications (CPub) was held on Friday and Saturday, September 16-17, 2016 in Providence, RI. CPub Chair Anatoly Libgober presided over the meeting.

Old Business - Updates on Actions

- **Approval of 2015 Minutes**
  The minutes of the 2015 CPub meeting were approved as drafted.

- **2015 Annual Report**
  CPub's 2015 annual report has been filed in the AMS Committee Report Book as Committee Report Number 151116-009 and posted on the Committee's homepage at http://www.ams.org/ams/cpub-home.html.

- **Actions Taken on CPub Recommendations**
  Actions taken on CPub recommendations made in 2014 and 2015 include the following:
  - CPub's 2014 recommendation that "*The AMS should increase the capacity of its research journals in order to better serve the mathematical community*" was considered as part of the larger Strategic Plan initiative to "Publish More Mathematics Content" as the discussion topic at the April 2016 Council meeting.
  - CPub's 2015 recommendation to take over publication of the *Online Journal of Analytic Combinatorics* was rejected by the January 2016 Council.
  - CPub's 2015 recommendation to discontinue the translation journal *Theory of Probability and Mathematical Statistics* was rejected by the November 2015 Executive Committee and Board of Trustees and the January 2016 Council.

- **Computational Reproducibility Guidelines for Mathematics**
  In 2015, a joint subcommittee consisting of two members each from CPub and the AMS Committee on the Profession (CoProf) was formed to consider what role, if any, the AMS should have in the creation of guidelines for computational reproducibility standards for the mathematical community. The subcommittee recommended the following guidelines, which were approved by both CPub and CoProf:

  As with all proofs in mathematics, computer-assisted proofs should be presented in enough detail for experts to validate them. Independent researchers should be able to examine all relevant calculations. Although each specific research community must and should decide its own standards, generally useful practices include giving complete descriptions of algorithms, and assuring access to software. When less standard packages or custom-written programs are used, it may be important to provide source code. Just as with the written text of papers, it is important to consider long-term stability of repositories and appropriate placement. For example, code can

*be attached to an arXiv submission or included in the online version of the journal
where the paper is published.*

The title approved by CPub for the guidelines, "Guidelines for Communicating Computer-Assisted Proofs," was later revised by CoProf to "Guidelines for the Submission, Refereeing and Publication of Computer-Assisted Proofs." The CPub-CoProf approved Guidelines will be included in the January 2017 Council agenda for approval.

Reports

- **Report on Journal Backlogs**
  CPub received the following reports by attachment: "Status of Backlog Reduction Plan," "Journal Statistics Report," and "Backlog of Mathematics Research Journals." Robert Harington reviewed current primary journal statistics including publication, submission, and backlog data and provided an update on the status of the backlog reduction plan which was initiated in 2014 with the goal of reducing the backlogs of AMS's primary journals to "zero" (i.e., a four-month in-house backlog).

- **Report on AMS Open Access Journals**
  CPub received the reports "Status of Open Access Journals" and "Open Access Journal Statistics" by attachment, and Robert Harington reported on the status of the two electronic-only, open-access journals, *Proceedings of the American Mathematical Society, Series B* and *Transactions of the American Mathematical Society, Series B*.

- **Report on Mathematical Reviews**
  CPub received "Report on *Mathematical Reviews* to CPub" by attachment, which was presented by Executive Editor Edward Dunne.

New Business

- **AMS Publishing Strategic Plan and Journal Business Models**
  Associate Executive Director, Publishing, Robert Harington presented a summary of the key initiatives of the AMS Strategic Plan for Publishing and lead discussion on possible new publishing models for AMS journals. The Committee discussed the feasibility of several potential options for new AMS journal publishing models as outlined in Robert Harington's May 5, 2016 white paper "Journal Business Models for the AMS."

  After the meeting, a revised version of the "Journal Business Models for the AMS" white paper was prepared to incorporate the input offered during CPub's discussion. Members of CPub were then asked to vote on whether or not they were in favor of endorsing the proposed new journal models as described in the revised white paper. The potential new models were endorsed by CPub by majority vote, and as part of the vote, comments were also solicited and received. CPub's endorsement of the new models and the comments submitted will go forward to the Executive Committee and Board of Trustees for discussion at for its November 2016 meeting.

- **Revisions to Editorial Committee Charges**

  - **Mathematics of Computation (MCOM) Editorial Committee Charge**
    Secretary Carla Savage and MCOM Managing Editor Susanne Brenner informed CPub that since book reviews in the area of computational mathematics are now covered by *Bulletin of the AMS* and are no longer published in *Mathematics of Computation*, a change to the MCOM Editorial Committee charge is needed. CPub endorsed revising "Principal Activities" item 4 of the MCOM Editorial Committee charge to delete language regarding receiving and soliciting books for review in the "Reviews" section of the journal. The proposed revisions to the charge will be included in the January 2017 Council agenda for approval.

  - **Notices Editorial Board Charge**
    Secretary Carla Savage suggested revisions to the Notices Editorial Board charge to define the term of the Chief Editor and to make current policy on member terms more explicit. CPub endorsed the suggested revisions to the "General Description" section of the charge, which will be included in the January 2017 Council agenda for approval.

- **Review of AMS Book Program**
  CPub received the "2016 Report of the Subcommittee Reviewing the AMS Book Program" by attachment, which was presented by Anatoly Libgober, chair of the CPub subcommittee that conducted the 2016 review. Other subcommittee members included: Henry Cohn, Michael Larsen, Karen Vogtmann, and Ben Webster.

  The subcommittee's review focused on assessing the following aspects of the Book Program:
  1. How do AMS membership, editors of the series, and the authors of books published by AMS assess the scientific quality of AMS book program?
  2. How does AMS membership view the scope of the program in terms of the areas covered?
  3. How do authors view AMS in comparison with other publishers?
  4. How successfully does the AMS book program adapt to the changes in the book publishing industry?

  The general findings of the subcommittee's review indicate that the AMS is achieving its main goals of publishing books of high scientific quality, adequately representing all areas of mathematics, and providing valuable support to authors. The subcommittee recommended further review of possible new modes of accessibility and usage for books published in electronic format.

  The Committee moved to accept the report with thanks and to appoint a subcommittee of CPub to make recommendations on "adopting new media for AMS books" to report to CPub at its 2017 meeting. The subcommittee's membership and charge are to be determined after February 1, 2017, once the 2017 committee is seated.

- **TAMS Editorial Committee Restructuring**
  In 2014, a "backlog reduction plan" aimed at reducing the backlogs of AMS's primary journals to "zero" (i.e., a four-month in-house backlog) became a priority. As part of this plan, and to

improve the overall functioning of the journal's editorial processes, the Publisher and Associate Executive Director, Publishing presented a proposal to modify the current structure of the Transactions and Memoirs of the AMS Editorial Committee to add Coordinating Editors.

CPub approved the proposal and moved to recommend to Council that the charge to the TAMS Editorial Committee be revised to indicate the composition of the committee as consisting of the Managing Editor, five Coordinating Editors, and about fifteen Editors.

CPub's recommendation has been forwarded to the Editorial Boards Committee for comment and will be included in the January 2017 Council agenda for approval.

- **Procedures for New Journal Proposals**
  A call for formal procedures for handling new journal proposals was made at the November 2015 Executive Committee and Board of Trustees (ECBT) meeting in connection with the discussion of the *Online Journal of Analytic Combinatorics* (item 2E.3 of those minutes). It was suggested that the procedures would include such things as instructions for submitting a proposal, how these instructions will be promulgated, how proposals will be vetted by staff, and what the governance protocol will be for getting a proposal approved by the Council and the Board of Trustees.

  The Committee received and discussed the "Proposed Procedures for New Journal Proposals," as prepared by AMS Publisher Sergei Gelfand, for the submission, evaluation and approval of proposals to publish new journals. CPub approved an amended version of the procedures which will go forward to the ECBT and Council for further consideration.

- **Institutional Open Access Policies**
  CPub Member Ilya Kapovich presented a brief history and overview of institutional open access policies as they relate to authors', publishers', funding agencies', and schools' rights for faculty-authored scholarly articles and proposed that AMS consider launching a public campaign aimed at heightening awareness of institutional open access policies.

  Time constraints did not allow for full discussion of this item during the meeting, and the matter was referred to the AMS Committee on the Profession (CoProf) by Publisher Sergei Gelfand for consideration jointly with CPub.

  CoProf endorsed the establishment of a joint subcommittee of CPub and CoProf to further consider the matter and drafted the following charge:

  Many institutions and funding agencies have copyright and open access policies that affect mathematicians. This committee is charged with:
    - **studying a sampling of such policies,**
    - **determining whether there is a need to raise mathematicians' awareness about the existence of these policies,**
    - **determining whether there is a need for guidelines for mathematicians to deal with these issues,**
    - **determining whether the AMS is an appropriate body to create such guidelines; and**

- **if the answer to the previous question is positive, considering what further steps should be taken.**

Following the meeting, CPub conducted an online vote and approved the formation of the joint CPub-CoProf subcommittee as charged. CPub members Ilya Kapovich and Henry Cohn have volunteered to serve on behalf of CPub, and Alicia Dickenstein and John McCleary have volunteered to serve on behalf of CoProf. A chair will be selected upon mutual agreement of the CPub and CoProf chairs.

Informational Items/Other Business

- **2017 CPub Meeting**
  The next CPub meeting will be held ***Friday and Saturday, October 13-14, 2017*** at the Chicago Hilton O'Hare in Chicago, IL.

- **2017 CPub Review**
  An evaluation of the AMS Member Journals (*Bulletin, Notices* and *Abstracts*) will be conducted and presented at the 2017 meeting.

Sergei Gelfand
Publisher
October 25, 2016

Proposal for Restructuring Transactions and Memoirs (TAMS) Editorial Board

1. **Composition**: The Editorial Board will consist of the Managing Editor, five Coordinating Editors, and about 15 Editors. Each of the five Coordinating Editors is responsible for a large field of mathematics (e.g., Analysis, Differential Equations, Number Theory and Algebra, Geometry and Topology, Probability and Combinatorics). Similar to its current structure, each Editor is responsible for a particular area of mathematics. Each Coordinating Editor will manage several Editors in areas in his/her field.

2. **Submission**: Articles can be submitted, at the author's choice, to one of the Editors, one of the Coordinating Editors, or to the Managing Editor. In the latter two cases the article will be assigned to the Editor in charge of the particular area unless the Managing Editor or one of the Coordinating Editors chooses to handle the submission personally.

3. **Handling**: The Editor in charge of the article will handle the evaluation and refereeing process and will make a recommendation to: approve the article for publication, return the article to the author(s) for revision, or to reject the article. In case of rejection, the Editor's recommendation is final. In the case of revision or approval, the Editor's recommendation becomes final after approval by the appropriate Coordinating Editor. The final recommendation is communicated to the author(s) by the editor in charge of the article.

4. **Page allocations**: Every two years the Managing Editor, in consultation with the AMS staff and the editorial board, establishes quotas for the number of pages per year to be published within each area. It is the responsibility of Coordinating Editors to maintain these quotas by working closely with the Editors under their management.

5. **Communication**: Regular communication and consultations between the Managing Editor and the five Coordinating Editors, and the Coordinating Editors and the Editors under their management, are crucial to the health and success of the journal. For the first group, it should include at least two teleconferencing or face to face meetings a year, more if needed.

                                                            Sergei Gelfand
                                                            AMS Publisher
                                                            August 16, 2016

Procedures for New Journal Proposals

I. **Instructions**

   a. Proposals may be submitted by organizations (e.g., mathematics departments of universities) or groups of mathematicians. We expect that proposals will be submitted to the AMS at times that are convenient for the proposers, yet they must be reviewed carefully within the AMS's existing governance calendar.

   b. Proposals to launch a new journal should be directed to the AMS Publisher (acquisitions@ams.org) and should include the following information in the form of a written application:

   - Description of the new journal, its scope, intended readership, etc.
   - Explanation of the need for the new journal at this level/in this area.
   - Data that shows the level of funding in the area (if any), size of author pool, where papers are currently being published, and trends in the field.
   - A proposer statement of how they will go about making this journal a success from a content perspective.
   - A list of several comparable existing journals (if applicable) and explanation of how the proposed journal would differ.
   - Opinions from ~~at least five (5)~~independent expert reviewers about the quality, importance and viability of the proposed journal.
   - Suggestions on the frequency/size of the journal and type of articles to be published (research, survey, short notes).
   - Suggestions about the structure and operation of the journal's editorial board: how many managing editors, their role, and the role of the other (coordinating, regular, associate) editors.
   - Suggestions for the possible composition of the editorial board.
   - Suggestions on the delivery media (print vs electronic vs hybrid); suggestions on whether it should be an open access journal.

II. **Publicity**

Instructions for how to submit new journal proposals will be made publicly available.

III. **Vetting**

Each proposal to publish a new journal will be reviewed by AMS senior executive staff for editorial and business coherence. The staff review process should examine the following aspects of the proposal:

   - Whether the proposed journal is important/useful for the general mathematical community or to a significant portion of this community.
   - Whether the proposed journal is an appropriate fit for AMS's journal program.
   - Whether the editorial aspects of the proposal appear to be reasonable and sustainable.
   - Whether the proposed journal's business model appears to be reasonable and sustainable.

IV. Governance Protocol

Upon review and approval by the AMS staff, proposals will be submitted to the following AMS governance bodies, in the order specified:

- The Committee on Publications (CPub) will review, discuss and make recommendations on the proposal.
- The Executive Committee and Board of Trustees (ECBT) will review, discuss, and make its recommendations.
- The recommendations of CPub and ECBT will then be submitted to the Council for consideration and final decision.

Math Reviews Editorial Committee Annual Report for 2016

MREC met on Monday, October 10, 2016. Andreas Frommer and Jeffrey Lagarias were nominated to serve a second term on MREC and have agreed to do so if appointed. Ronald Solomon will end his second term on January 31, 2017 and will be replaced by Pham Huu Tiep as committee member and by Andreas Frommer as committee chair.

Ed Dunne reported some slowdown in 2015 production due to staff shortages in Cataloguing. This is being caught up now. He also reported on some ways that MR is working to address recommendations of the Strategic Planning Committee. Several changes have been made or are in process to improve the search capabilities of MathSciNet. Also, with a view towards integrating MathSciNet more effectively into the daily life of mathematicians, connections have been implemented to the arXiv, MathOverflow, the MacTutor History of Mathematics Archive, etc. For example, MR added live links to the arXiv from reference lists on MathSciNet.

Catherine Roberts reported on pricing and subscription information. Elizabeth Downie gave an overview of the unique author identification work done at MR, and Dean Carlson gave an update on the ongoing project of MR and zbMATH to revise the Mathematics Subject Classification scheme.

MREC approved expanding the Reference List program to include the two collection series: Contemporary Mathematics and Lecture Notes in Computer Science. Dunne and the associate editors presented a list of 23 journals recommended for addition to the Reference List Journal program, and MREC approved 22 of these recommendations.

MREC was delighted to meet with our new Executive Director Catherine Roberts and was very pleased to learn that she plans to give ongoing attention to the important work done by MR.

Submitted by Ronald Solomon, Chair
November 14, 2016

Report of the Chief Editor of the *Notices of the American Mathematical Society*

A top *Notices* priority remains presentation of current mathematics. The January 2017 issue again contains a JMM lecture sampler. It also has a note from the Editors on "Diversity in Mathematics," which starts like this:

"Recent studies of the lack of women authors and editors in prominent journals [listed in footnote] raise serious concerns about the state of mathematics, but a review of the past year's *Notices* reveals many positive signs for women and minorities:

"The January cover featured nine Joint Meetings Invited Speakers, seven of whom were women or minorities. The same issue featured the seven Trjitznsky Memorial Award winning undergraduates, six of whom were women."

It continues with two pages of such positive news and pictures.

Our main labors remain the solicitation and editing of articles. We could use a couple more editors and welcome suggestions.

We've been receiving few Letters to the Editor and posted comments on the Notices webpage.

We're happy with the changes introduced last year, including the new Graduate Student Section, with its regular interview and "WHAT IS...?" column. Sarah Salmon is the new Editor-in-Chief of the Graduate Student Blog.

Submitted November 27, 2016 by Frank Morgan, Notices Chief Editor.

AMS Library Committee, 2016 Annual Report, November 10, 2016

The AMS library committee met at the 2016 Joint Mathematics Meetings in Seattle. The agenda from that meeting is below.

Bruce Sagan and JoAnn Sears were appointed co-chairs effective February 1, 2016. Other members are Sherry Chang, Steven Kaliszewski, Dustin Mixon, Michael Noga, Steve Rockey, Bruce Sagan, JoAnn Sears and Martha Yip.

The committee is scheduled to meet 1:00-2:00 PM on Friday, January 6, 2017 at the Joint Meetings in Atlanta. Not all members plan to attend the meeting in person.

The committee has been in occasional email contact in 2016. Agenda items are being collected via email; a draft agenda for the meeting in January 2017 is below.

Bruce Sagan (Michigan State University), co-chair

JoAnn Sears (University of Michigan), co-chair.

Agenda for the past 2016 Library Committee meeting, January 6, 2016, that took place in Seattle:

* Question about videos from the Selected Lectures in Mathematics and AMS-MAA joint lecture series (Noga)

* Question about e-book subscriptions (Rockey)

* Question about AMS textbook ebooks excluded (Sears) and DRM issues (Harrington)

* News about MathSciNet (Harrington)

* News about Math Reviews (Richert/Wolcott)

Draft agenda for the upcoming 2017 Library Committee meeting, January 6, 2017, to take place in Atlanta:

* Informational session about De Gruyter mathematics collections. (Emily Farrell, De Gruyter)

* Discussion around this August 2016 Scholarly Kitchen article (https://scholarlykitchen.sspnet.org/2016/08/22/vindicated-by-its-critics-the-kent-study-in-light-of-subsequent-research-on-library-circulation/) and what the AMS can do to support library-faculty interactions. (Robert Harington led discussion)

* Update on eBooks for individuals and digital rights management (DRM) developments at the AMS. (Robert Harington)

* Update on MathSciNet development. (Ed Dunne)

* Construction of the third State of the Mathematics Libraries survey. (JoAnn Sears)

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Summer 2016 CMS Board of Directors Meeting Report

The Canadian Mathematical Society (CMS) held its Summer Meeting from June 24 to 27 at the University of Alberta in Edmonton, Canada. I represented the American Mathematical Society (AMS) at the CMS Board of Directors (BoD) meeting via teleconferencing on June 24, 2016.

Motions

The meeting started with motions which were passed electronically and approved unanimously. To be noted is a motion from the Publications Committee asking that the CMS provide an Open Access option for the Canadian Journal of Mathematics (CJM) and the Canadian Mathematical Bulletin (CMB).

CMS Memberships

The Board of Directors had to address an unusual amount of internal administrative issues in the first part of the meeting. One of them, which might be of interest to the AMS Council, was concerned with the recruitment of new CMS members and membership fees.

A long discussion took place to determine how to attract new members and in particular how to increase the number of junior mathematicians among CMS members.

It was agreed that an Ambassador Program be created. Its role would be to:
   a. Identify faculty in various Canadian or U.S. Universities/institutions that would encourage junior researchers to join;
   b. Produce supporting material to help the ambassadors in their recruitment efforts.

Membership fees were also discussed at length. The main concern raised was about non-tenured mathematicians, whether they are working or not. It was agreed that their annual membership dues should be minimal.

Fundraising

The CMS has renewed its contract with a fundraising team for an additional six months. They wish to acquire a better understanding of how to raise funds for math.

Report from AMS Representattive (H. Barcelo)

Following Don McCLure and Carla Savage suggestions, I reported on the following points:

- MCA2017 - Mathematical Congress of the Americas:
  The AMS looks forward to participating in the MCA taking place in Montréal next summer. The AMS will be contributing to a fund to support travel for early career mathematicians from Latin America;
- The AMS newly created Office of Education and Diversity and its new Director, Helen Grundman;
- Don McCLure's succession – Catherine Roberts has been named AMS Executive Director;

- The AMS has completed a strategic planning process and is now at work on its implementation.

Following this report, the CMS Board of Directors had additional questions which were answered via email:

- **MCA2017 - Latin American early career mathematicians attending the Mathematical Congress of the Americas (MCA)**

    a. The CMS wishes to place an announcement in the September CMS Notes regarding the funding from the AMS to support Latin American early career mathematicians to attend the CMA. A brief description regarding eligibility, application process, deadlines, etc. was requested.

    b. The members of the Board of Directors inquired about the total amount of funding that the AMS is planning on spending on these awards – note that this would not appear in any of the CMS publications.

Updates – The answers were communicated via email to the Board of Directors after the meeting:

    a. Hopefully, the details of the application process will be available by September 2016 and communicated to Michael Bennet and Graham Wright (from the CMS).

    b. The AMS is contributing $40,000 to support travel by early career mathematicians from Latin America to participate in MCA2017. Additional contributions are expected from Latin American countries and other organizations. It is hoped that the CMS and Canadian hosting organization would offer 'in kind' contributions in form of free MCA registration, discounted lodging rates, travel grants, etc.

CMS IT infrastructure

There was a long discussion regarding the improvement of the CMS IT infrastructure as they are in the middle of a major overall project. Some of the concerns were security issues associated with using the cloud for storage.

By the end of the meeting, twelve standing committee chairpersons or representatives reported on their yearly activities.

Video conference for future BoD meetings

The possibility of attending the annual Board of Directors' meeting via teleconference was again brought up. The CMS has explored this option and will soon make a final decision and move forward with the implementation.

December 7, 2016

Dr. Karla Kremer
Program Director, Office of the Secretary
American Mathematical Society
Department of Computer Science
Campus Box 8206
North Carolina State University
Raleigh, NC 27695-8206

Cc: Robin Hagan Aguiar

Dear Dr. Kremer,

This is a report on the activities of the Arnold Ross Lecture Series Committee during 2016. The current membership is: Dave Marker (University of Illinois at Chicago), Glenn Stevens, Chair (Boston University), Mark Tomforde (University of Houston), and Glen Whitney (Museum of Mathematics).

The location (the Orlando Science Center) and two possible dates for the 2017 Arnold Ross Lecture were finalized in late June. The committee began its deliberations in October and quickly settled on a short list of three strong candidates. An invitation was sent to Tadashi Tokieda in early November, which he accepted shortly afterwards. However, for personal reasons Professor Tokieda asked if it might be possible to defer the invitation until 2018. In response to this request, our committee consulted with the members of next year's 2017 committee, who just happen to consist of all three current members other than myself, plus Steven Miller of Williams College. The 2017 committee was delighted to invite Professor Tokieda to give the 2018 lecture, and our committee then went on to successfully recruit Ken Ono (Emory University) to give the 2017 lecture in Orlando on November 15, 2017. In summary, the results of our deliberations were as follows:

- Ken Ono will give the Arnold Ross Lecture at the Orlando Science Center on November 15, 2017; and
- Tadashi Tokieda will give the Arnold Ross Lecture in 2018 (date and location are to be determined).

The 2016 Arnold Ross lecture was held at the Fort Worth Museum of Science and History on October 27, 2016. Approximately 150 students attended from Fort Worth area high schools. Professor Nancy Kopell of Boston University gave a fascinating presentation entitled "Brain Rhythms in Health and Disease" in which she discussed mathematical themes underlying neuroscience. The talk was both accessible and rich in mathematics, including discussion of mathematical models of the human brain and how these models have been used to improve treatment of neurological disorders. The students in the audience were highly engaged in the presentation. They had lots of excellent questions during the question and answer period that followed, and continued to interact enthusiastically with Professor Kopell over refreshments in the lounge area afterwards. This was a very successful event.

The ensuing math game "Who Wants To Be a Mathematician?" was also a great success. The game was emceed by Mike Breen. The participants did a great job answering the questions and received enthusiastic support from all corners of the audience.

As always, Robin Hagan Aguiar did a superb job of organizing everything, thus assuring that the event ran smoothly and enjoyably for everyone.

Glenn Stevens
Chair, Arnold Ross Lecture Committee
Department of Mathematics and Statistics
Boston University
Boston, MA 02215

Annual Report
Committee on Professional Ethics
2016

The year began quietly, with an inquiry three days in that we settled quickly and then no activity for over three months. We had our hands full from mid-May to mid-July, then went dormant until the very day I began writing this report. We are now dealing anew with a case from a year ago and settling a case that arrived two days ago.

The year's initial inquiry was brought to us by the author of a book who was puzzled by what appeared to be an odd sequence of events involving a mathematician who may have been a reviewer of the book, and whose paper the inquirer found himself asked to referee. The committee reviewed the situation, provided advice, and the author decided not to bring a formal complaint.

Much of our time in the busy two-month stretch from May to July involved two independent complaints by a mathematician who has been in a sequence of postdoctoral positions. Her first complaint revolved around the the question of whether her mentor at a previous institution had behaved improperly in going ahead with submission of results on a problem she had brought to his attention. She had her own results, which overlapped, and which she prepared in a separate paper with two co-authors. After a preliminary review of the situation, COPE turned to the AMS Secretary for advice on what options we might have in communicating our concerns if we found the postdoctoral advisor to have erred in his actions. Ultimately, we expressed our concerns to the advisor only, after which point we considered the case settled.

As we were sorting out the details of this case, the same postdoc brought to our attention a second case involving a mathematician based abroad with whom she had once collaborated. They dissolved their collaboration and published separate papers, but she was concerned that he had not properly credited her contributions to his paper. He had revised his paper at her request to make her role clearer. Due to continuing concerns, she asked us to investigate and possibly intervene. We decided to take no action. In both cases, the complainant was not satisfied with our decisions. We reviewed her concerns and chose to take no further steps.

Just as we took up the first of the two cases above, we received an inquiry by the editor-in-chief of a US journal who found himself receiving a peculiar set of emails involving two mathematicians in another country with regard to a paper accepted by his journal, the only problem being that no such paper had ever been submitted. Attempts on his part to clarify the nature of potential fraud led to a dead end, with each of the two mathematicians making statements that rendered the situation incomprehensible. There was no clear action to take—on his part or ours—and we all agreed to allow the matter to remain an eternal mystery.

A few weeks later, a mathematician contacted me wishing to discuss by phone some concerns he had and to clarify the nature of the actions COPE was in a position to take. There were two linked issues: the appropriateness of an editor's rejecting a paper written by the

mathematician and then preparing his own paper with the same results, and potential mis-advice on this matter by a senior colleague. Following our phone conversation and additional emails, he indicated that he would prepare a formal complaint, but he has yet to do so.

In December 2015, a postdoctoral mathematician brought to our attention a case of potential plagiarism involving a senior member of his department. Given that he had also made a complaint within the university, we advised him to let the university process take its course. Ten days ago, following the university's resolution of the case, he wrote to COPE asking that we take it up anew. We will begin deliberations this week.

Two days ago, a mathematician submitted a complaint regarding another mathematician whose website and CV, the complainant believes, contain mis-representations. We have decided not to take on the case, based on our reading of the COPE manual and resulting conclusion that it does not fit within our purview.

One of the oddities of COPE is that we never know what new business is around the corner. We sit patiently, awaiting cases initiated by others, not unlike the local fire department. Then, when the call comes, we abandon our poker game (or theorem proving), slide down the pole, and get to work. We live on the edge. Indeed, you might say that by serving on this committee, we learn to cope.

Submitted on November 13, 2016
Ron Irving, Chair (Year 3)
Erica Flapan (Year 3)
Rick Miranda (Year 2)
Dan Knopf (Year 1)
Lee Mosher (Year 1)
Robert Megginson (Year 1)

2016 Fan Fund Committee Report

Here is the Annual Committee Report for the Fan Fund Committee in 2016.

The committee consists of three members: Dihua Jiang (Chair), Fanghua Lin and Hongkai Zhao.

There were three applications this year. After a few discussions via email among the committee members, it was decided to support the application of Gang George Yin from Wayne State University for two consecutive years (2016 and 2017), while the other two applications were not funded because the proposals were not competitive or did not contain enough supporting documents.

Sincerely,

Dihua Jiang

From the Notices:

For 2016, Huazhong University of Science and Technology received a grant of US$8,350 to support a visit from Gang George Yin of Wayne State University. The visitor's own department will receive a grant of US$1,000 after the visit.

October 14 2016

JCW ANNUAL REPORT

MAGGY TOMOVA AND BERND STURMFELS, CO-CHAIRS

The Joint Committee on Women met via phone on January 29, 2016 and in person on September 17, 2016 in Chicago.

In 2016 the JCW sponsored several panels featuring female panelists and aimed at addressing issues which disproportionately affect women. Bernd Sturmfels was the lead organizer of a highly successful panel *Success in graduate school (and the rest of your life)* which was held on January 7, 2016, at the JMM in Seattle. The panelists were Sara Billey, Anastasia Chavez, Courtney Gibbons, Abby Herzig, Candice Price and Ami Radunskaya. The JSM panel *Effective Self-Promotion to Advance Your Career in Statistics* took place in August 2016 and had over 120 participants. The panelists were Nicholas Jewel, Nandini Kannan, Charmaine Dean, Michael Kosorok, Martha Gardner and the moderator was Johanna Neslehova

The JCW will be sponsoring two panels are the 2017 JMM, one on Scholarly Publishing and one aimed at undergraduates.

During the in-person meeting we generated a number of ideas for future panels that can be sponsored by JMM and some of these ideas will be used to organize panels at the 2018 JMM.

In an effort to increase the visibility of the JCW, we have created a flier with information about the scope of the committee and contact information. This flier will be distributed at the JMM and at any other meetings the committee members attend.

The committee has completed our work collecting Welcoming Environment Policy statements and urging societies that don't have such a statement, to create one. In the next year we will be focusing on creating a document for Best Practices in Mentoring. This document will be shared with the societies to support their work in mentoring.

JCW has updated their policy on accepting new member societies and using this updated policy we invited NAM to join. This required 2/3 majority. All societies except the AMS have approved this addition to the JCW. We hope that the AMS Council will vote positively on this at its next meeting.

Finally, the members of the JCW discussed the possibility of doing all meetings online via a platform such as ZOOM (which has a fee associated to it but is reported to work better than similar free environments such as Skype). Technology has advanced immensely in recent years and many committees are moving towards online meeting to save costs, and be both environmentally and family friendly. No final decision on this has been reached.

2016 Annual Report
The AMS-MAA Joint Committee on Teaching Assistants and Part-Time Instructors

Members: Solomon Friedberg (Chair), David Futer, Angela K. Kubena, Jean Marie Linhart, Edward Lowell Richmond, Tom Roby, Maria S. Terrell, Michael J. Weingart.

Activities: The focus of the committee this year has been organizing a special session entitled "Teaching Assistant Development Programs: Why and How?" which will be held at the Joint Math Meetings in Atlanta in January 2017. This special session also has the support of the MAA Committee on Professional Development, which is serving as co-sponsor. The special session organizers are Solomon Friedberg, who is Chair of the AMS-MAA Joint Committee, Jeff Remmel (UCSD), who is the immediate past chair of the AMS-MAA Joint Committee, Jessica Deshler (West Virginia University), who is a member of the MAA Committee on Professional Development, and Lisa Townsley (University of Georgia).

This session has been planned to showcase both practice and research on TA development. Some presentations will provide information about specific TA training and development programs that are successful in a variety of institutional contexts. Research presentations will describe scholarship on TA development and beginning teaching, informing the community of developments in this direction and focussing on making the bridge between such research and best practices. In selecting speakers, we sought to showcase the wide range of institutions and of TA development programs. We will also hear from a sitting Dean who is a mathematician who will address TA development from an institutional perspective.

There is a complementary panel sponsored by the MAA Committee on Professional Development that will focus on CoMInDS (College Mathematics Instructor Development Source), a project that is meant to enable faculty to start or enhance a TA development program at their home institution. These events will have separate content, but be mutually reinforcing. In fact, the two committees have been consulting with each other, each committee is co-sponsoring the other's event, and each event has at least one member of the other committee as a co-organizer. By scheduling these events at the same meeting, we hope to both introduce the specific CoMinDS resource to the mathematical community and to provide a wider perspective that will be useful for individuals and institutions seeking to better prepare their TAs to be successful teachers.

Prior Year Items:

(1) In a prior report, the committee raised the possibility of a survey that could be sent to department chairs concerning TA Development and listed specific questions that we hoped would be asked. We await the implementation of this survey by the AMS or the MAA or other feedback from these organizations.

(2) In the same prior report, we discussed the evolving role of teaching professors, often full-time non-tenure-track faculty, at North American universities. In our report we wrote "We think that this is an important issue that should be broadly discussed within the MAA and the AMS." Once again, we suggested a survey of department chairs to gather information, and listed specific questions. Once again, we await the implementation of this survey by the AMS or the MAA or other feedback from these organizations.

Submitted by Solomon Friedberg, Chair
November 9, 2016

2016 ANNUAL REPORT OF THE AMS-ASA-MAA-SIAM DATA COMMITTEE

Prepared by AMS Staff with William Velez, Chair, AMS-ASA-MAA-SIAM Data Committee,
Distinguished Professor, Department of Mathematics, University of Arizona, Tucson, AZ,
velez@math.arizona.edu
December 31, 2016

The Annual Survey Data Committee guides the collection and dissemination of data on matters of concern to the mathematical sciences community. The committee held its annual meeting during the Joint Mathematics Meetings in Seattle, WA in January 2016. The committee discussed data gathered and published during the previous year and made recommendations on data to be gathered in 2016. AMS Staff in Providence, under the direction of T. Christine Stevens, Associate Executive Director for Meetings and Professional Services, carry out the annual collection and analysis of data and the writing of the reports jointly with the committee chair. AMS staff members involved in this work during 2016 included Thomas Barr, Special Projects Officer, Colleen Rose, AMS Survey Analyst, and Laura Byrum, AMS Survey Assistant.

Based on data gathered in questionnaires sent to departments of mathematical sciences in the U.S. and to new doctoral recipients that earned degrees between July 1, 2014–June 30, 2015, five reports were published in the *Notices of the AMS**.

Staff at AMS handled fifteen requests for specialized reports drawn from the Annual Survey Data. Eight of these reports were faculty salaries peer analyses, and seven were special analyses of data.

Members of the committee for 2016 and the organization they represent are given below. Terms expire on January 31 of the listed year.

Thomas Barr	AMS	Ex Officio	Ellen Kirkman	AMS	2017
David Cox	MAA	2017	Patti Lock	MAA	2018
Charles Epstein	AMS	2016	Nate Ritchey	MAA	2018
Amanda Golbeck	ASA	2019	Alexander Suciu	AMS	2019
Abbe H. Herzig	AMS	2017	William Velez	AMS	2017
Mark Huber	AMS	2019	Bogan Vernescu	SIAM	2018

* 2015 Annual Survey of the Mathematical Sciences, edited by William Velez, Thomas H. Barr, and Colleen A. Rose:
- Preliminary Report on the 2014–2015 New Doctoral Recipients, *Notices of the AMS* (2016), Volume 63, Number 1, p. 246.
- Faculty Salary Survey, *Notices of the AMS* (2016), Volume 63, Number 4, pp. 398–395.
- Report on Academic Recruitment and Hiring Survey, *Notices of the AMS* (2016), Volume 63, Number 4, pp. 383–387.
- Report on the 2014–2015 Survey of New Doctoral Recipients and Starting Salary of New Doctoral Recipients, *Notices of the AMS* (2016), Volume 63, Number 7, pp. 754–765.
- Departmental Profile Report: Faculty Profile, Enrollment and Undergraduate Majors Profile and Graduate Student Profile, the *Notices of the AMS* (2016), Volume 63, Number 11, pp. 1262–1271.

Attachment:

AMS-ASA-IMS-MAA-SIAM Surveys of U.S. Mathematical Sciences Departments

AMS-ASA-IMS-MAA-SIAM Surveys of U.S. Mathematical Sciences Departments

The AMS-ASA-MAA-SIAM Data Committee gives advice to AMS staff about annual data gathering from U.S. departments in the mathematical sciences. This data gathering was started by AMS in 1957 and has continued uninterrupted since that time. The MAA joined this effort in 1989 and in more recent times IMS, ASA and SIAM have become sponsors. AMS staff, under the Associate Executive Director for Meetings and Professional Services, carries out the survey work. The Chair of the Data Committee and appropriate personnel at AMS currently write reports each year which are published in *Notices of the AMS* based on the annual surveys. The current surveys are highlighted below.

New Doctoral Recipients: Each calendar year the data gathering begins in April. Doctoral granting departments in the Mathematical Sciences in the U.S. are asked to report a variety of information about their new doctoral recipients from July 1 the previous year through June 30 of the current year. The departments are asked for the names of their new doctoral recipients, dissertation titles, addresses, citizenship, current employment status, etc. A preliminary report on the information gathered by early fall is typically published in the following March issue of the *Notices of the AMS* with a final report published in the August issue of *Notices of the AMS.*

Academic Recruitment and Hiring: Each July (previously sent in October), departments are asked to report on their efforts to recruit new faculty during the previous year and report on the new faculty hired as a result of their recruiting. The results of this survey are typically published in a spring issue of *Notices of the AMS*.

Faculty Salaries: Each September (previously sent in June), a questionnaire is sent to Mathematical Sciences departments in all 4-year colleges and universities in the U.S. asking them to provide salary information for all tenured or tenure-track faculty in their department for the upcoming academic year. This information is reported by group (see group definitions below) and by rank. Information gathered for this report is typically published in a spring issue of the *Notices of the AMS*.

Employment Experiences of New Doctoral Recipients: Beginning each October, further information is gathered about new doctoral recipients. Using the names and addresses of new doctoral recipients provided earlier on the Survey of New Doctoral Recipients, a questionnaire is sent to each new doctoral recipient asking for their current employment status, salary, gender, etc. This information, combined with the final data gathered on the Survey of New Doctoral Recipients, provides a more comprehensive look at the new doctoral recipients as well as giving information about their starting salaries. This information is typically published in the August issue of *Notices of the AMS*.

Departmental Profile: Faculty Profile, Enrollment and Degrees Awarded Profile, Graduate Student Profile: In January, another questionnaire is sent to all departments of Mathematical Sciences awarding a doctoral or master's degree and to departments awarding at most a bachelor's degree. It asks them for details about number and type of faculty, enrollments in courses by broad categories, number and type of graduate students in departments with graduate programs, etc. Information from this questionnaire is used to provide a profile of each reporting group of departments. The results are typically published in a fall issue of *Notices of the AMS*.

Group definitions. Departments in the U.S. are divided into groups and results are given for each of these groups in reporting on these surveys. Starting with the 2012 cycle of surveys, a new grouping scheme has been adopted by the Data Committee and it will be reflected in the subsequent reports of these surveys. For more details see
http://www.ams.org/profession/data/annual-survey/groups .

Other activities.   The Annual Survey Data Committee also offers guidance to AMS survey staff on the data gathered for presentation as an online resource for prospective students in the Mathematical Sciences. This online resource *Graduate Programs in the Mathematical Sciences*, available at

http://www.ams.org/programs/students/findgradprograms/findgradprograms is primarily intended as a convenient source of comparative information on graduate programs in the mathematical sciences. Prior to 2012, this information was published as guidebook titled *Assistantships and Graduate Fellowships in the Mathematical Sciences*.

At times the committee advises other groups contemplating gathering data from departments of Mathematical Sciences. This may include informing them that such data is already available and steering them to it. When asked, the committee makes suggestions on questionnaires that other groups are planning to use to gather data.

From time to time departments ask for salary information for a peer group of their department. The staff at AMS provides this information whenever an appropriate peer group is available and the confidentiality of individual department responses can be assured. The committee currently holds a half-day meeting at the Joint Mathematics Meetings in January each year.

Mathematics Research Communities

The Mathematics Research Communities (MRC) are an AMS program that helps early career mathematicians to get their research off to a good start. Aimed at those who are close to finishing their doctorates or have recently earned their degrees, it provides them with opportunities to build social and collaborative networks to inspire and sustain each other in their research. Each year, three or four research areas are selected as the foci of a structured program that engages and guides all participants as they start their careers. This program includes:

- One-week summer conferences for each topic;
- Special Sessions at the Joint Mathematics Meetings (JMM);
- Guidance in career building;
- Funding for additional collaborations;
- Longitudinal study of the career paths of early career mathematicians.

Each MRC conference accommodates either twenty or forty participants. The program, which began in 2008, has been supported by the National Science Foundation, which recently awarded the AMS $1,225,745 to support the program for 2017, 2018, and 2019. Our goals for the next three years include raising the visibility of the MRC program, increasing the diversity of the organizers and participants, and building a sense of community among MRC alumni from prior years. We will also be investigating ways to make the MRC's financially sustainable as an ongoing AMS program.

In 2016 the participants in the 2015 conferences completed their year of participation by organizing Special Sessions at the JMM in Seattle in 2016 and pursuing the collaborative research projects that they had initiated at the summer conferences. The topics for the 2015 conferences were: Commutative Algebra; Financial Mathematics; and Differential Equations, Probability, and Sea Ice.

The following conferences were held in 2016:

Lie group representations, discretization, and Gelfand pairs, June 5 – 11, 2016 (20 participants)
Organizers: Bradley Currey, Saint Louis University; Gestur Olafsson, Louisiana State University; Gail Ratcliff, East Carolina University.

Character Varieties: Experiments and New Frontiers, June 5 – 11, 2016 (20 participants)
Organizers: Sean Lawton, George Mason University; Christopher Manon, George Mason University; Adam Sikora, State University of New York at Buffalo.

Algebraic Statistics, June 12 – 18, 2016 (39 participants)
Organizers: Mathias Drton, University of Washington; Elizabeth Gross, San Jose State University; Serkan Hosten, San Francisco State University; David Kahle, Baylor University; Sonja Petrovic, Illinois Institute of Technology.

Mathematics in Physiology and Medicine, June 19 – 25, 2016 (40 participants)
Organizers: Dan Beard, University of Michigan; Brian Carlson, University of Michigan; Adam Mahdi, University of Oxford; Mette Olufsen, North Carolina State University; Johnny Ottesen, Roskilde University.

Three MRC conferences are planned for the summer of 2017, each for forty participants:

Homotopy Type Theory, June 4 – 10, 2017
> *Organizers:* J. Daniel Christensen**,** University of Western Ontario; Chris Kapulkin, University of Western Ontario; Daniel R. Licata, Wesleyan University; **E**mily Riehl, Johns Hopkins University; Michael Shulman**,** University of San Diego.

Beyond Planarity: Crossing Numbers of Graphs, June 11 – 17, 2017
> *Organizers:* Éva Czabarka, University of South Carolina; Silvia Fernández-Merchant, California State University, Northridge; Gelasio Salazar, Universidad Autónoma de San Luis Potosí; Marcus Schaefer, DePaul University; László A. Székely**,** University of South Carolina.

Dynamical Systems: Smooth, Symbolic, and Measurable, June 18 – 24, 2017
> *Organizers:* Jon Chaika, University of Utah; Vaughn Climenhaga, University of Houston; Boris Hasselblatt, Tufts University; Bryna Kra, Northwestern University; Daniel Thompson, The Ohio State University.

The online application form for the 2017 MRC's is already available at http://www.ams.org/programs/research-communities/mrc-17, and applications are due by March 1, 2017.

Additional information about the MRC program, including guidelines for preparing proposals and a list of conferences from past years, can be found at http://www.ams.org/programs/research-communities/mrc-proposals-18.

T. Christine Stevens
Associate Executive Director
November, 2016

AMS MENGER AWARDS COMMITTEE - 2016 ANNUAL REPORT

Irina Mitrea, Chair

October 12, 2016

Event: The Intel International Science and Engineering Fair (Intel ISEF), a program of Society for Science & the Public and the worlds largest international pre-college science competition was held May 8th-13th, 2016, at the Phoenix Convention Center in downtown Phoenix, Arizona. This annual event currently brings together more than 1,750 high school students from more than 75 countries, regions and territories to present posters with results of their independent research. The projects are individual or done in teams of two.

Committee: The 2016 AMS Menger Prize Committee consisted of Irina Mitrea (Temple University), William Yslas Velez (University of Arizona), and Andrew Whelan (GKN Driveline). Mitrea served as the committee chair. The committee completed the event background checks and their travel plans followed the AMS recommendation: Irina Mitrea (May 9th - May 13th), William Yslas Velez (May 9th - May 12th), Andrew Whelan (May 9th - May 12th).

Mathematics Submissions: This year, there were 51 submissions in the mathematics category on a wide range of topics, theoretical and applied. All participants in this category showed exceptional mathematical promise, originality, talent and an impressive mathematical background for someone this junior.

Selection Process: The multi-step judging process used to select the winners this year has been detailed in the Best Practices document that the committee submitted to the AMS following the 2016 event. This included: (1) poster reviews (by at least two committee members); (2) poster rankings; (3) selection of about 25 interview candidates; (4) interviewing candidates; (5) ranking of the finalists.

Awards: As it has been the case for the previous twenty five editions, AMS presented Karl Menger Awards to the students with the best mathematics poster presentations. In 2016, like in the previous year, the AMS awarded a one first-place prize, two second-place prizes, and four third-place prizes. In addition, five more students received honorable mentions. The AMS Karl Menger Memorial Prize winners for 2016 are:

- First Place Award (US $2,000): Stephanie Shi-Ning Mui, Oakton High School, Vienna, VA, USA, "*Embedding a Flat Torus in Three Dimensional Euclidean Space*".

- Second Place Awards (US $1,000): Ekaterina Lebedeva, Municipal Lyceum #40, Nizhny Novgorod, Russian Federation, "*Triangular Circle in a Square*"; Phuong Anh Tran, Cherkasy Physics and Mathematics Lyceum, Cherkasy, Ukraine, "*Towards Common Algorithm for Computation of Polygonal Numbers*".

- Third Place Awards (US $500): Muhammad Ugur oglu Abdulla, West Shore Junior/Senior High School, Melbourne, FL, USA, *"Stochastic Analysis in Biomedical Engineering: Identifying Acute Myocardial Infarction"*; Pei-Hsuan Chang, Taipei Municipal LiShan High School, Taipei City, Chinese Taipei, *"Nested Eggs: Where Brianchon, Pascal and Poncelet Meet"*; Qingxuan Jiang, Shanghai High School, Shanghai, Shanghai, China, *"The Rolling Lamp Problem and Related Link Structure"*; Osvaldo J. Pagan & Dariannette Valentin (team entry), Dr. Carlos Gonzalez High School, Aguada, Puerto Rico, Puerto Rico, *"The Future of Energy: Spidronized Solar Cells"*.

- Honorable Mention Awards: Dona-Maria Radoslavova Ivanova, Baba Tonka High School of Mathematics, Ruse, Bulgaria,*"On the Coverings of $\{0,1,2\}^n$ with Minimal Cardinality"*; Emil Sebastian Geisler, Bountiful High School, Bountiful, UT, USA, *"The Investigation of an Impartial Normal Play Game"*; Roy Jacobson, Israel Arts and Science Academy, Jerusalem, Israel, *"Graph Rigidity in L^1 and Kusner's Conjecture"*; Karthik Yegnesh, Methacton High School, Eagleville, PA, USA, *"Cosheaf Theoretical Constructions in Networks and Persistent Homology"*; Shaden Naif Alshammari, 19th High School, Hail, Saudi Arabia, *"Enhancement RSA Security using Polynomials and Rabin Functions"*.

2016 Short Course Subcommittee Annual Report

The Short Course Subcommittee received one proposal for the JMM 2017. The proposed course was on Random Growth Models and co-organized by Michael Damron (Georgia Tech), Firas Rassoul-Agha (University of Utah) and Timo Seppalainen (University of Wisconsin, Madison). The Subcommittee reviewed the proposal and recommended it on February 19 2016. The short course will be presented at the JMM 2017 (Atlanta, GA) in the form of seven lectures by the organizers, Jack Hanson (The City College of New York), Philippe Sosoe (Harvard University) and Ivan Corwin (Columbia University).

Submitted on November 15, 2016 by Fernando Guevara Vasquez, Chair

Committee Members: Irene Fonseca, Fernando Guevara Vasquez (CH), Joel Hass, Gregory F Lawler, Seth Sullivant, Joel A Tropp, Peter M Winkler.

Report of the 2016 AMS Epsilon Committee

The AMS Epsilon Committee met via conference call on February 8, 2016. The committee makes the following recommendations to the AMS. A total of 29 applications were received and the committee finds that 26 deserve support from the AMS in the amounts shown below:

Name	Program Name	Award
Ugur Abdulla	Florida Tech Math Circle	$7,000
David Auckly	Baa Hozho Math Camp	$10,000
sarah-marie belcastro	MathILy	$5,000
Luis Caseres	PROTaSM	$5,000
Marisa Debowsky	Canada/USA Mathcamp	$5,000
Aryn DeJulis	Summer Math Program for High School Students	$2,500
Charles Farmer	Research Science Institute (RSI)	$2,500
Robert Fefferman	University of Chicago Young Scholars Program	$2,500
David Gay	Camp Euclid	$5,000
Ron Irving	Summer Institute for Math at UW (SIMUW)	$5,000
Yu Jin	All Girls/All Math Summer Camp	$2,500
David Kelly	Hampshire College Summer Studies in Mathematics (HCSSiM)	$2,500
Alexander Kirillov	Sigma Camp	$7,000
Peter Kuchment	SMaRT	$4,000
Manoug Manougian	STEM for Scholars	$2,500
Stephen Maurer	MathPath	$5,000
Kevin Minch	Joseph Baldwin Academy for Eminent Young Scholars (JBA)	$2,500
Jonah Ostroff	MathIly-Er	$8,500
Allison Pacelli	Williams College Math Camp (WCMC)	$8,500
Kovan Pillai	New York Math Circle	$5,000
Jill Pipher	GirlsGetMath@ICERM	$5,000
Daniel Shapiro	Ross Mathematics Program	$2,500
Glenn Stevens	PROMYS	$2,500
Karen Taylor Mitchell	Governor's Institute on Mathematical Sciences	$2,500
Max Warshauer	Honors Summer Math Camp (HSMC)	$5,000
Daniel Zaharopol	Bridge to Enter Advanced Mathematics (BEAM)	$10,000

The committee recognizes the high quality of these programs. Due to the limited funding, the committee decided to recommend awards between $2,500 and $10,000.

The following programs are well-established:

PROTaSM
Canada/USA Mathcamp
Summer Math Program for High School Students
RSI
University of Chicago Young Scholars Program
SIMUW
All Girls/All Math Summer Camp
HCSSiM

STEM for Scholars
MathPath
JBA
Ross Mathematics Program
PROMYS
Governor's Institute on Mathematical Sciences
HSMC

AMS guidelines set a minimum award of $2,500 for mature programs that are excellent and will thus be given AMS endorsement by such an award. Due to budget constraints the committee decided to give an award of this amount to 10 of the mature programs listed above, and to increase this minimal amount to $5,000 for the remaining five program of this group – PROTaSM, Canada/USA Mathcamp, SIMUW, MathPath, and HSMC. This decision was based on the total number of students served, as well as other merits of each program. Although the amount awarded to each program in this group is relatively small compared to their total budgets, we hope that the programs will use the recognition by the AMS in order to successfully obtain additional funding from other sources.

An award of $4,000 is recommended to a relatively new program SMaRT. The program was discontinued for a few years and the committee felt that the program deserves our support. That said, future funding at a higher level should be contingent on the program's demonstrated revitalization.

All the remaining programs are relatively new, and for them the committee recommends awards between $5,000 and $10,000. In particular, an award of $5,000 is recommended for four programs: MathILy, Camp Euclid, New York Math Circle, and GirlsGetMath@ICERM. An award of $7,000 is recommended for Florida Tech Math Camp and for Sigma Camp. The committee was favorably impressed by the quality of MathILy-Er and WCMC programs and recommends an award of $8,500 to each of them.

Finally, the committee recommends an award of $10,000 each to Baa Hozho Math Camp and BEAM. Both programs serve under-served student populations and students participating in these programs come from families that cannot afford any financial contribution to the program. Both programs have seen a steady increase in the number of participating students, and both do not limit their services to the summer camp. They continue operating year round providing vital support to students (and teachers, in the case of Baa Hozho Math Camp).

Three programs are not recommended for funding. The committee felt that these applications were not as well thought out as those of the competing programs. Due to the limited funds, it is not possible to offer support to these three programs at this time. The committee strongly encourages them to apply again.

The number of applications grew from 23 (last year) to 29 this year. It shows that the efforts to increase the visibility of the Epsilon Program have paid off.

 Submitted by Pamela K. Morin
 October 14, 2016
 Commmittee: Erika T Camacho, Aaron Hill (CH), Joel Spencer, Katherine F. Stevenson

The AMS Fellows Program

This a document describing the Fellows program that was approved by the AMS membership in 2011 and subsequent changes approved by the Council. As specified in the member-approved proposal, details of the program may be changed by the AMS Council, keeping in mind the intent of the membership when the initial program was approved.

A change history to this document is available in Appendix A.

Goals of the Fellows Program

The goals of the Fellows Program are to:

1. Create an enlarged class of mathematicians recognized by their peers as distinguished for their contributions to the profession.

2. Honor not only the extraordinary but also the excellent.

3. Lift the morale of the profession by providing an honor more accessible than those previously available.

4. Make mathematicians more competitive for awards, promotion and honors when they are being compared with colleagues from other disciplines.

5. Support the advancement of more mathematicians in leadership positions in their own institutions and in the broader society.

I.   Program

A. The Fellows program of the American Mathematical Society recognizes members who have made outstanding contributions to the creation, exposition, advancement, communication, and utilization of mathematics.

B. The responsibilities of Fellows are to:

   1. Take part in the selection of new Fellows.

   2. Present a "public face" of excellence in mathematics.

   3. Advise the President and/or the Council on public matters when requested.

C. The target number of Fellows will be determined by the AMS Council as a percentage of the number of members. [1] The target percentage will be revisited by the Council at least once every ten years and may be increased or decreased in light of the history of the nomination and selection process. The intended size of each year's class of new Fellows should be set with this target size in mind.

D. Following a selection process (see below), individuals are invited to become Fellows. They may decline and they may also resign as Fellows at any time.

E. Fellows receive a certificate and their names are listed on the AMS website. The names of new Fellows are also included in the Notices each year.

F. If they are not already Fellows, the AMS President and Secretary are made Fellows when they take office.

II.   Initial Implementation

A. In the initial year of the program, individuals who were AMS members during both the years 2010 and 2011 and who had done one or more of the following were invited to become AMS Fellows: [2]

   1. Given an invited AMS address (including at joint meetings). [3]

   2. Been awarded an AMS research prize. [4]

   3. Given an invited address at an International Congress of Mathematicians (ICM) or an International Congress of Industrial and Applied Mathematicians (ICIAM). [3]

B. An additional 50 individuals who were AMS members during both the years 2010 and 2011 were selected to become AMS Fellows. These were chosen by a committee appointed by the President with the advice of the Executive

Committee of the Council. Attention was paid to selecting AMS members recognized for their contributions beyond research.

III.   Selection Process

A. New Fellows are selected each year after a nomination process. The nomination process is carried out under the direction of the Secretary with help from the AMS staff. The procedures for nominating AMS Fellows are available on the AMS website.

B. The Selection Committee will consist of twelve members of the AMS who are also Fellows, each serving a three-year term, and with four new members appointed each year. The AMS president, in consultation with the Executive Committee of the Council, appoints the new members of the Selection Committee in November of each year. At the same time, the President nominates a continuing member of the Selection Committee to serve as Chair.

C. The Selection Committee accepts nominations for Fellows between February 1 and March 31 each year. Nominations are made by members of the AMS. A member can nominate no more than 2 nominees a year. Current members of the Selection Committee are not allowed to participate in a Fellows nomination either as a principal nominator or as a supporting member.

D. To be eligible for nomination to Fellowship, an individual must be an AMS member for the year in which he or she is nominated as well as for the prior year. Self-nominations are not allowed.

E. A principal nominator must supply a package with the following information on the nominee:

   1.   A Curriculum Vitae *of no more than five pages.*

   2.   A citation of fifty words or less explaining the person's accomplishments.

   3.   A statement of cause of 500 words or less explaining why the individual meets the criteria of Fellowship.

   4.   The signatures of the principal nominator and three additional (supporting) AMS members who support the nomination, with at least two of these individuals current Fellows. Each supporting member is asked to explain in a sentence or two why they are supporting the nomination. Their remarks will be very helpful to the selection committee.

F. Any person who is nominated and is not selected a Fellow will remain an active nominee for a further two years.

G. Each year the January Council provides a guideline for the number of Fellows to be selected. [5] The Selection Committee chooses Fellows from the

nominations bearing in mind this guideline, diversity of every kind, and the quality and quantity of the external nominations.

H. Those members who are chosen by the Selection Committee are invited by the President to become new Fellows of the AMS.

IV. Footnotes

1: The original proposal's recommendation to Council was 5% of members. At that time there were about 30,000 members so the number of Fellows would be about 1,500.

2: It was anticipated that the the seeding process described in II.A would produce offers of Fellows status to approximately 800 current AMS members.

3: An invited address is one given at the invitation of the program committee and delivered before January 1, 2012.

4: These are the Birkhoff, Bôcher, Cole, Conant, Doob, Eisenbud, Fulkerson, Moore, Robbins, Satter, Steele, Veblen, Whiteman, and Weiner prizes. Again, the prize must have been awarded before January 1, 2012.

5: It is anticipated that during a transition period of approximately 10 years about 75 new Fellows will be appointed each year. In the steady state of 1500, it is anticipated that about 40 new Fellows positions will occur annually due to attrition.
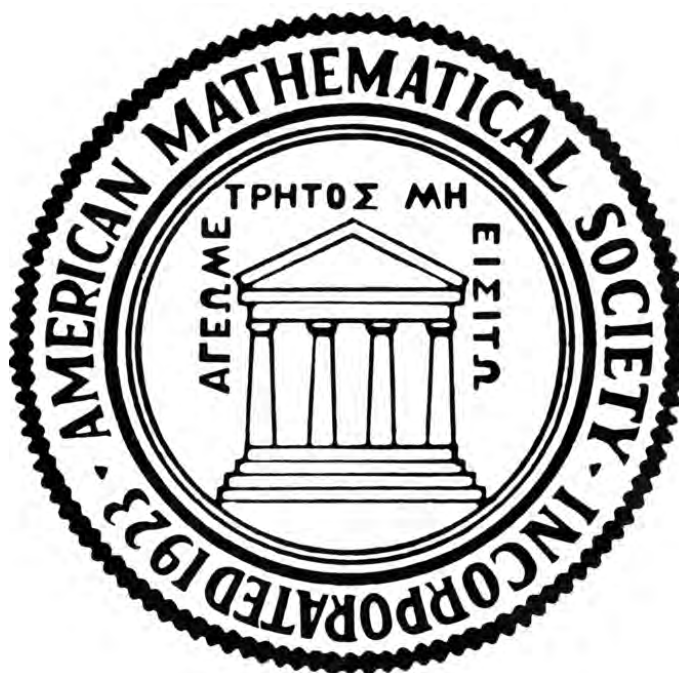
Appendix A: Change history

Change history for the Fellows program document. Each row represents a Council action.

Date of Council Action	Reference to Minutes	Change required	Location in this document where change is found
		[update table in date-descending order, most recent first]	
Jan 2014	Section 4.10.2, p. 11	Council approved the sentence "Current members of the Selection Committee may not make nominations for Fellows." Council voted to clarify this by replacing this sentence with ``Current members of the Selection Committee may not participate in a Fellows nomination either as a principal nominator or as a supporting member."	Item III, C.
Jan 2014	Section 4,10.3, p. 12	Council approved amending the proposed request to supporting nominators to read "Please explain in a sentence or two why you are supporting this nomination. Your remarks will be very helpful to the selection committee".	Item III, E, 4 updated with "Each Supporting AMS Member is asked to explain in a sentence or two why they are supporting the nomination. Their remarks will be very helpful to the selection committee."
Jan 2014	Section 4.10.1, p. 13	Council approved the Fellows Selection Committee recommendation that self-nominations no longer be allowed.	Item III, D.
April 2012	Section 4.6.1, p. 8	In the Selection Committee charge, Council approved removing the sentence "The Selection Committee has the discretion to make nominations to fulfill the general goals of the Fellowship". This document was also updated to reflect the same information as the charge.	Item III, G.

Statistics of Fellows Program (as of 10/14/2016)

Year	Members as of year end	Council Target	Total Nominations (inc. hold-overs)	Selected	Number of First year nominations selected	Number of Second year nominations selected	Number of Third year nominations selected	Estimated Living Fellows as of Oct. 2016
2012	29,200			1125	--	--	--	1122
2013	29,226	75	62	50	50	--	--	1163
2014	26,919	60	132	63	60	3	--	1217
2015	28,067	50	178	50	44	6	0	1260
2016	28,104	50-65	194	65	41	15	9	1284

Number of Fellows Nominations considered and selected by the Fellows Selection Committee

| Total nominations considerered	2013		2014		2015		2016		2017
62	62	New nominations							
	50	Selected in 2013							
132	12	Rolled to 2014	120	New nominations					
	3	Selected in 2014	60	Selected in 2014					
178	9	Rolled to 2015	60	Rolled to 2015	109	New nominations			
	0	Selected in 2015	6	Selected in 2015	44	Selected in 2015			
194			54	Rolled to 2016	65	Rolled to 2016	75	New nominations	
			9	Selected in 2016	15	Selected in 2016	41	Selected in 2016	
					50	Rolled to 2017	34	Rolled to 2017	New nominations
						Selected in 2017		Selected in 2017	Selected in 2017
								Rolled to 2018	Rolled to 2018
								Selected in 2018	Selected in 2018
									Rolled to 2019
									Selected in 2019

Seal of the Society

Inscription over the door of
Plato's Academy:

*ἀγεωμέτρητος μηδεὶς εἰσίτω μοῦ τὴν στέγην*

[Let no one unversed in geometry enter my doors]

Founded in 1888 to further mathematical research
and scholarship, the American Mathematical Society
fulfills its mission through programs and services that
promote mathematical research and its uses, strengthen
mathematical education, and foster awareness and
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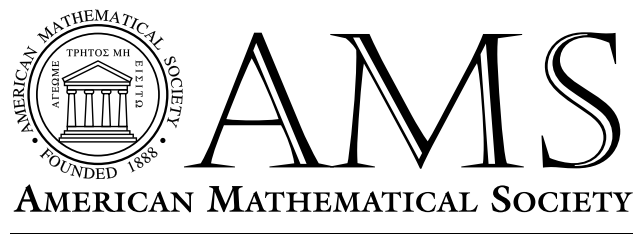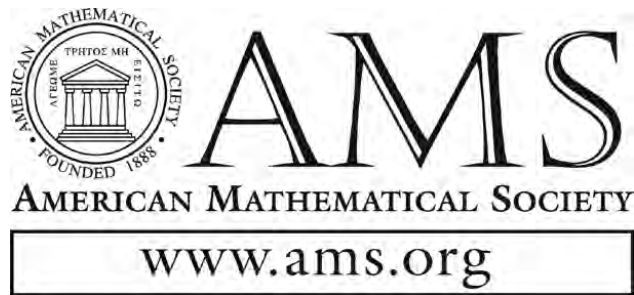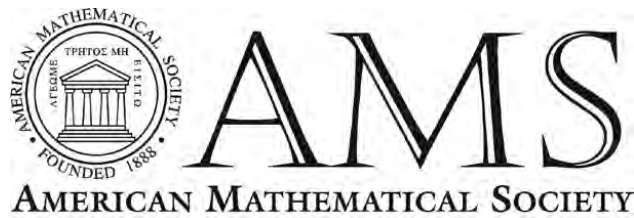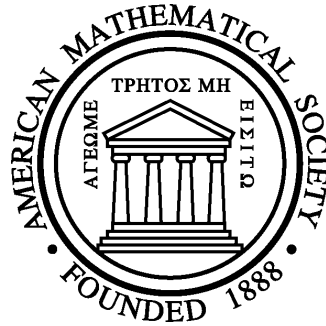
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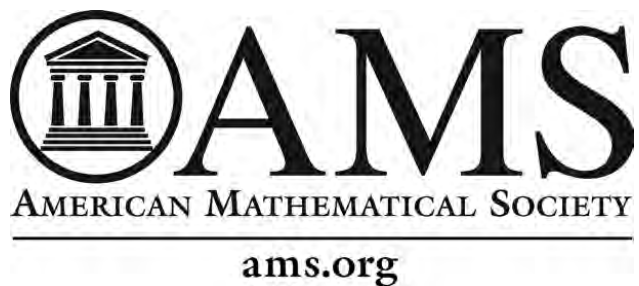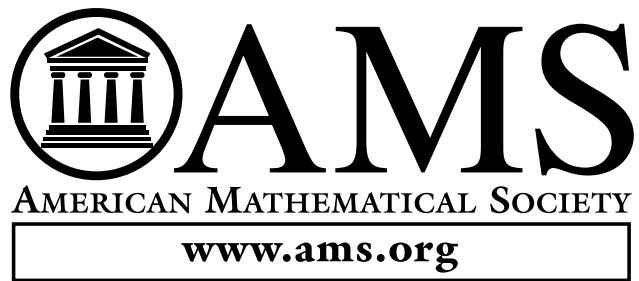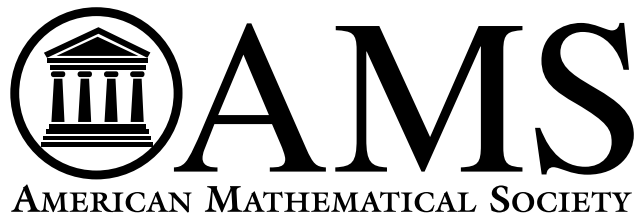
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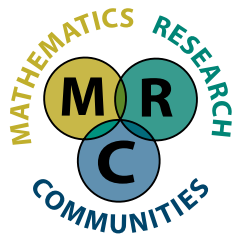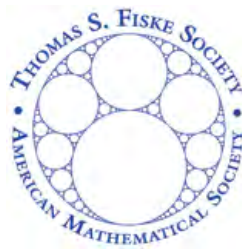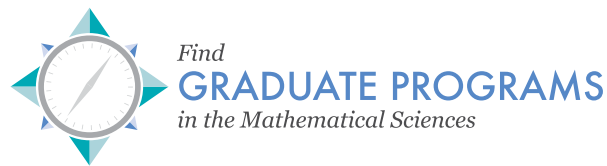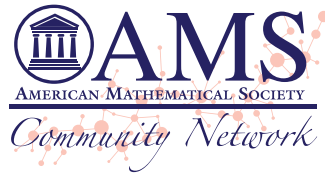
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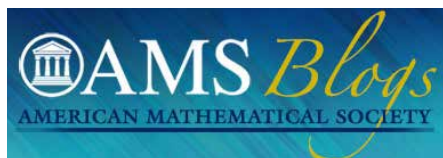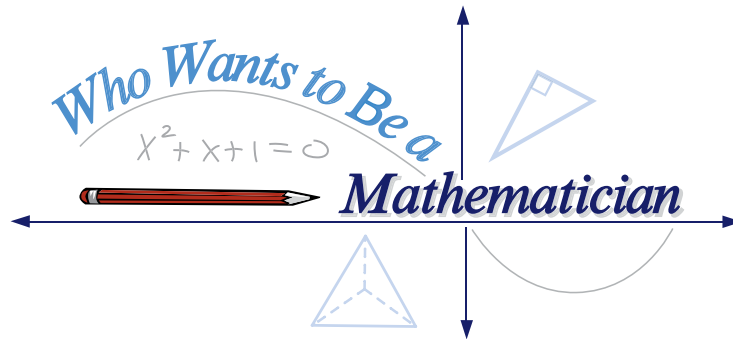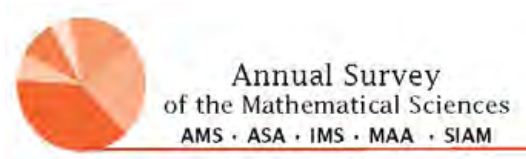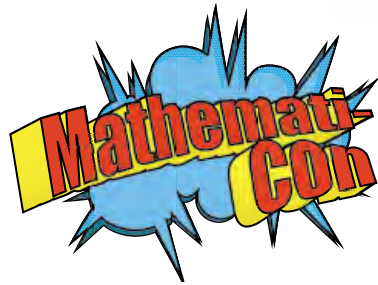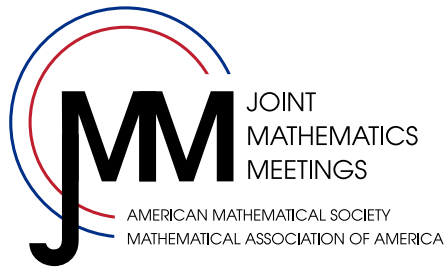
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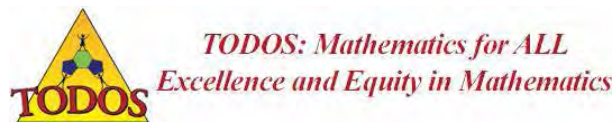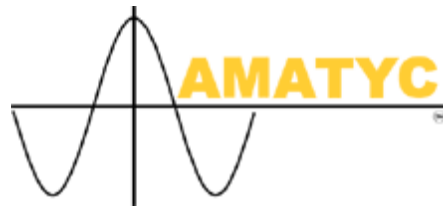
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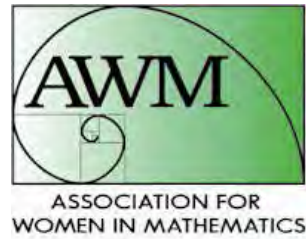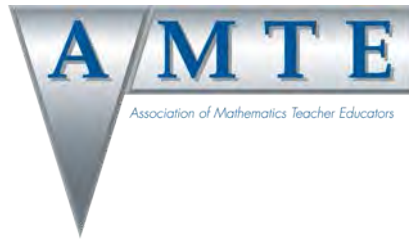
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**LIST OF SELECTED MEETINGS, HOLIDAYS, AND RELIGIOUS OBSERVANCES
FOR USE BY AMS STAFF WHEN SCHEDULING AMS MEETINGS**

This is a list of dates and sites of various meetings, holidays, and religious observances that AMS staff has been instructed to avoid conflicting with when scheduling AMS meetings. It includes meetings of AMS Council, ECBT, ABC, Policy Committees, etc. This list is *NOT INTENDED TO BE ALL-INCLUSIVE* and *SHOULD BE USED IN CONJUNCTION WITH* the *Mathematics Calendar* that can be found in the *Meetings & Conferences* section of the AMS web site: www.ams.org/meetings/calendar/mathcal.

Please notify Sheila Rowland (sjr@ams.org) or Ellen Heiser (ehh@ams.org) of any changes or additions that should be made to this file.

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
March 10-12, 2017 (Fri-Sun)	AMS Sectional Meeting	College of Charleston Charleston, SC
March 11-14, 2017 (Sat-Tues)	American Council on Education (ACE) Annual Meeting	Washington, DC
March 17, 2017 (Fri)	AMS Secretariat Meeting	Chicago, IL
March 18, 2017 (Sat)	AMS Committee on Meetings and Conferences (COMC) Meeting	Chicago, IL
April 1-2, 2017 (Sat-Sun)	AMS Sectional Meeting	Indiana University Bloomington, IN
April 4-5, 2017 (Tue-Wed)	AMS Committee on Science Policy (CSP) Meeting	Washington, DC
April 5-8, 2017 (Wed-Sat)	National Council for Teachers of Mathematics (NCTM) Annual Meeting	San Antonio, TX
April 7, 2017 (Fri)	Agenda and Budget Committee (ABC) Meeting	Web Conference
April 10-18, 2017 (Mon-Tue)	Passover	---
April 14, 2017 (Fri)	Good Friday	---
April 16, 2017 (Sun)	Easter	---
April 22, 2017 (Sat)	National Math Festival	Washington, DC
April 22-23, 2017 (Sat-Sun)	AMS Sectional Meeting	Washington State University Pullman, WA
April 24, 2017 (Mon)	Joint Policy Board for Mathematics (JPBM) Meeting	Washington, DC
April 29, 2017 (Sat)	AMS Council Meeting	Chicago, IL
May 5, 2017 (Fri)	Conference Board of the Mathematical Sciences (CBMS) Council Meeting	Washington, DC
May 6-7, 2017 (Sat-Sun)	AMS Sectional Meeting The Erdős Memorial Lecture will be given by James Maynard (date and time TBA)	Hunter College, CUNY New York, NY

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
May 18, 2017 (Thu)	AMS Committee on Committees Meeting	Ann Arbor, MI
May 19-20, 2017 (Fri-Sat)	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Ann Arbor, MI
May 29, 2017 (Mon)	Memorial Day	*All AMS Offices Closed*
June 4-24, 2017	Mathematics Research Communities (MRC)	Snowbird, UT
July 3-7, 2017 (Mon-Fri)	Pan African Congress of Mathematicians (PACOM 2017)	Mohammed V University Rabat, Morocco
July 4, 2017 (Tue)	Independence Day	*All AMS Offices Closed*
July 10-14, 2017	Society for Industrial and Applied Mathematics (SIAM) Annual Meeting	Pittsburgh, PA
July 24-28, 2017 (Mon-Fri)	Mathematical Congress of the Americas (MCA2017)	Montreal, Canada
July 25-27, 2017 (Tues-Thurs)	CESSE Annual Meeting (aka ACCESSE17)	Quebec City, Quebec
July 26-29, 2017 (Wed-Sat)	Mathematical Association of America (MAA) MathFest	Chicago, IL
July 29-August 3, 2017 (Sat-Thu)	Joint Statistical Meetings (JSM)	Baltimore, MD
August 14, 2017 (Mon)	Victory Day	*AMS RI Office Closed DC & MI Offices Open*
September 4, 2017 (Mon)	Labor Day	*All AMS Offices Closed*
September 9-10, 2017 (Sat-Sun)	AMS Sectional Meeting	University of North Texas Denton, TX
September 16-17, 2017 (Sat-Sun)	AMS Sectional Meeting	State University of New York Buffalo, NY
September 20-22, 2017 (Wed-Fri)	Rosh Hashanah	---
September 23-24, 2017 (Sat-Sun)	AMS Sectional Meeting	University of Central Florida Orlando, FL
September 29-30, 2017 (Fri-Sat)	Yom Kippur	---
October 4-11, 2017 (Wed-Wed)	Sukkot	---
October 6, 2017 (Fri)	Agenda and Budget Committee (ABC) Meeting	Web Conference
October 9, 2017 (Mon)	AMS Mathematical Reviews Editorial Committee (MREC) Meeting	Ann Arbor, MI
October 9, 2017 (Mon)	Columbus Day	*AMS RI & DC Offices Closed MI Office Open*

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
October 13-14, 2017 (Fri-Sat)	AMS Committee on Publications (CPUB) Meeting	Chicago, IL
October 14-15, 2017 (Sat-Sun)	AMS Committee on the Profession (CoProf) Meeting	Chicago, IL
October 26-28, 2017 (Thu-Sat)	AMS Committee on Education (COE) Meeting	Washington, DC
October 30, 2017 (Mon)	Joint Policy Board for Mathematics (JPBM) Meeting	Washington, DC
November 4-5, 2017 (Sat-Sun)	AMS Sectional Meeting	University of California Riverside, CA
November 11, 2017 (Sat)	Veterans' Day	---
November 17-18, 2017 (Fri-Sat)	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI
November 23, 2017 (Thu)	Thanksgiving Day	*All AMS Offices Closed*
November 24, 2017 (Fri)	Day after Thanksgiving	*AMS RI & DC Offices Closed MI Office Open*
December 1, 2017 (Fri)	Conference Board of the Mathematical Sciences (CBMS) Council Meeting	Washington, DC
December 12-20, 2017 (Tue-Wed)	Hanukkah	---
December 25, 2017 (Mon)	Christmas Day	*All AMS Offices Closed*
January 1, 2018 (Mon)	New Year's Day	*All AMS Offices Closed*
January 9, 2018 (Tue)	AMS Council Meeting	San Diego, CA
January 10-13, 2018 (Wed-Sat)	AMS-MAA Joint Mathematics Meetings (JMM)	San Diego, CA
January 15, 2018 (Mon)	Martin Luther King, Jr. Day	*All AMS Offices Closed*
February 15-19, 2018 (Thu-Mon)	American Association for the Advancement of Science (AAAS) Annual Meeting	Austin, TX
February 18-21, 2018 (Sun-Wed)	2018 CESSE CEO Meeting	Fort Myers, FL
February 19, 2018 (Mon)	President's Day	*AMS DC Office Closed RI & MI Offices Open*
March 10-13, 2017	American Council on Education (ACE) Annual Meeting	Washington, DC
March 17-18, 2018 (Sat-Sun)	AMS Sectional Meeting	Ohio State University Columbus, OH
March 29, 2018 (Thu) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
March 30, 2018 (Fri)	Good Friday	---

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
March 30, 2018 (Fri)	Passover begins at sundown	---
March 31, 2018 (Sat)	Passover (first day)	---
April 1-7, 2018 (Sun-Sat)	Passover (days 2-8)	---
April 1, 2018 (Sun)	Easter	---
April 14-15, 2018 (Sat-Sun)	AMS Sectional Meeting	Portland State University Portland, OR
April 14-15, 2018 (Sat-Sun)	AMS Sectional Meeting	Vanderbilt University Nashville, TN
April 21-22, 2018 (Sat-Sun)	AMS Sectional Meeting	Northeastern University Boston, MA
April 25-28, 2018 (Wed-Sat)	National Council for Teachers of Mathematics (NCTM) Annual Meeting	Washington, DC
April 28, 2018 (Sat)	AMS Council Meeting	Chicago, IL
April 30, 2018 (Mon)	Joint Policy Board for Mathematics (JPBM) Meeting	Washington, DC
May 17, 2018 (Thu) *TENTATIVE*	AMS Committee on Committees Meeting	Providence, RI
May 18-19, 2018 (Fri-Sat) *TENTATIVE*	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI
May 28, 2018 (Mon)	Memorial Day	*All AMS Offices Closed*
June 11-14, 2018 (Mon-Thu)	Joint International Meeting with the Chinese Mathematical Society	Fudan University Shanghai, China
July 4, 2018 (Wed)	Independence Day	*All AMS Offices Closed*
July 28-August 2, 2018 (Sat-Thu)	Joint Statistical Meetings (JSM)	Vancouver, BC, Canada
July 29-30, 2018 (Sun-Mon)	International Mathematical Union (IMU) General Assembly	São Paulo, Brazil
August 1-4, 2018 (Wed-Sat)	Mathematical Association of America (MAA) MathFest	Denver, CO
August 1-9, 2018 (Wed-Thu)	International Congress of Mathematicians (ICM 2018)	Rio de Janeiro, Brazil
August 13, 2018 (Mon)	Victory Day	*AMS RI Office Closed DC & MI Offices Open*
September 3, 2018 (Mon)	Labor Day	*All AMS Offices Closed*
September 9-11, 2018 (Sun-Tue)	Rosh Hashanah	---
September 18-19, 2018 (Tue-Wed)	Yom Kippur	---
September 23-25, 2018 (Sun-Sun)	Sukkot	---

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
October 5, 2018 (Fri) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
October 6-7, 2018 (Sat-Sun)	AMS Sectional Meeting	University of Arkansas, Fayetteville, AR
October 8, 2018 (Mon) *TENTATIVE*	AMS Mathematical Reviews Editorial Committee (MREC) Meeting	Ann Arbor, MI
October 8, 2018 (Mon)	Columbus Day	*AMS RI & DC Offices Closed MI Office Open*
October 20-21, 2018 (Sat-Sun)	AMS Sectional Meeting	University of Michigan, Ann Arbor, MI
October 27-28, 2018 (Sat-Sun)	AMS Sectional Meeting	San Francisco State University, San Francisco, CA.
October 29, 2018 (Mon)	Joint Policy Board for Mathematics (JPBM) Meeting	Washington, DC
November 11, 2018 (Sun)	Veterans' Day	---
November 12, 2018 (Mon)	Veterans' Day observed	*AMS RI Office Closed DC & MI Offices Open*
November 16-17, 2018 (Fri-Sat) *TENTATIVE*	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI
November 22, 2018 (Thu)	Thanksgiving Day	*All AMS Offices Closed*
November 23, 2018 (Fri)	Day after Thanksgiving	*AMS RI & DC Offices Closed MI Office Open*
December 2-10, 2018 (Sun-Mon)	Hanukkah	---
December 25, 2018 (Tue)	Christmas Day	*All AMS Offices Closed*
January 1, 2019 (Tue)	New Year's Day	*All AMS Offices Closed*
January 15, 2019 (Tue)	AMS Council Meeting	Baltimore, MD
January 16-19, 2019 (Wed-Sat)	AMS-MAA Joint Mathematics Meetings (JMM)	Baltimore, MD
January 21, 2019 (Mon)	Martin Luther King, Jr. Day	*All AMS Offices Closed*
February 14-18, 2019 (Thu-Mon)	American Association for the Advancement of Science (AAAS) Annual Meeting	Washington, DC
February 18, 2019 (Mon)	President's Day	*AMS DC Office Closed RI & MI Offices Open*
March 29-31, 2019 (Fri-Sun)	AMS Sectional Meeting	University of Hawaii Manoa, Honolulu, Hawaii

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
April 3-6, 2019	National Council for Teachers of Mathematics (NCTM) Annual Meeting	San Diego, CA
April 5, 2019 (Fri) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
April 19-27, 2019 (Fri-Sat)	Passover	---
April 19, 2019 (Fri)	Good Friday	---
April 21, 2019 (Sun)	Easter	---
May 16, 2019 (Thu) *TENTATIVE*	AMS Committee on Committees Meeting	TBD
May 17-18, 2019 (Fri-Sat) *TENTATIVE*	AMS Executive Committee and Board of Trustees (ECBT) Meeting	TBD
May 27, 2019 (Mon)	Memorial Day	*All AMS Offices Closed*
July 4, 2019 (Thu)	Independence Day	*All AMS Offices Closed*
July 15-19, 2019 (Mon-Fri)	International Congress on Industrial and Applied Mathematics (ICIAM)	Valencia, Spain
July 27-August 1, 2019 (Sat-Thu)	Joint Statistical Meetings (JSM)	Denver, CO
July 31-August 3, 2019 (Wed-Sat)	Mathematical Association of America (MAA) MathFest	Cincinnati, OH
August 12, 2019 (Mon)	Victory Day	*AMS RI Office Closed DC & MI Offices Open*
September 2, 2019 (Mon)	Labor Day	*All AMS Offices Closed*
September 29-October 1, 2019 (Sun-Tue)	Rosh Hashanah	---
October 1, 2019 (Tue)	last day of Rosh Hashanah	---
October 8-9, 2019 (Tue-Wed)	Yom Kippur	---
October 11, 2019 (Fri) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
October 13-20, 2019 (Sun-Sun)	Sukkot	---
October 14, 2019 (Mon) *TENTATIVE*	AMS Mathematical Reviews Editorial Committee (MREC) Meeting	Ann Arbor, MI
October 14, 2019 (Mon)	Columbus Day	*AMS RI & DC Offices Closed MI Office Open*
November 11, 2019 (Mon)	Veterans' Day	---
November 22-23, 2019 (Fri-Sat) *TENTATIVE*	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
November 28, 2019 (Thu)	Thanksgiving Day	*All AMS Offices Closed*
November 29, 2019 (Fri)	Day after Thanksgiving	*AMS RI & DC Offices Closed* *MI Office Open*
December 22-30, 2019 (Sun-Mon)	Hanukkah	---
December 25, 2019 (Wed)	Christmas Day	*All AMS Offices Closed*
January 1, 2020 (Wed)	New Year's Day	*All AMS Offices Closed*
January 14, 2020 (Tue)	AMS Council Meeting	Denver, CO
January 15-18, 2020 (Wed-Sat)	AMS-MAA Joint Mathematics Meetings (JMM)	Denver, CO
January 20, 2020 (Mon)	Martin Luther King, Jr. Day	*All AMS Offices Closed*
February 13-17, 2020 (Thu-Mon)	American Association for the Advancement of Science (AAAS) Annual Meeting	Seattle, WA
February 17, 2020 (Mon)	President's Day	*AMS DC Office Closed* *RI & MI Offices Open*
April 3, 2020 (Fri) ***TENTATIVE***	Agenda and Budget Committee (ABC) Meeting	Web Conference
April 8-16, 2020 (Wed-Thu)	Passover	---
April 10, 2020 (Fri)	Good Friday	---
April 12, 2020 (Sun)	Easter	---
May 14, 2020 (Thu) ***TENTATIVE***	AMS Committee on Committees Meeting	Providence, RI
May 15-16, 2020 (Fri-Sat) ***TENTATIVE***	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI
May 25, 2020 (Mon)	Memorial Day	*All AMS Offices Closed*
July 4, 2020 (Sat)	Independence Day	---
July 5-11, 2020	8th European Congress of Mathematicians (8ECM)	Portoroz, Slovenia
July 29-August 1, 2020	Mathematical Association of America (MAA) MathFest	Philadelphia, PA
August 1-6, 2020 (Sat-Thu)	Joint Statistical Meetings (JSM)	Philadelphia, PA
August 10, 2020 (Mon)	Victory Day	*AMS RI Office Closed* *DC & MI Offices Open*
September 7, 2020 (Mon)	Labor Day	*All AMS Offices Closed*

DATE	MEETING/HOLIDAY/RELIGIOUS OBSERVANCE	SITE
September 18-20, 2020 (Fri-Sun)	Rosh Hashanah	---
September 27-28, 2020 (Sun-Mon)	Yom Kippur	---
October 2-9, 2020 (Fri-Fri)	Sukkot	---
October 9, 2020 (Fri) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
October 12, 2020 (Mon) *TENTATIVE*	AMS Mathematical Reviews Editorial Committee (MREC) Meeting	Ann Arbor, MI
October 12, 2020 (Mon)	Columbus Day	*AMS RI & DC Offices Closed MI Office Open*
October 14, 2020 (Wed) *TENTATIVE*	Agenda and Budget Committee (ABC) Meeting	Web Conference
October 21-24, 2020	National Council for Teachers of Mathematics (NCTM) Annual Meeting	St. Louis, MO
November 11, 2020 (Wed)	Veterans' Day	---
November 20-21, 2020 (Fri-Sat) *TENTATIVE*	AMS Executive Committee and Board of Trustees (ECBT) Meeting	Providence, RI
November 26, 2020 (Thu)	Thanksgiving Day	*All AMS Offices Closed*
November 27, 2020 (Fri)	Day after Thanksgiving	*AMS RI & DC Offices Closed MI Office Open*
December 10-18, 2020 (Thu-Fri)	Hanukkah	---
December 25, 2020 (Fri)	Christmas Day	*All AMS Offices Closed*
January 1, 2021 (Fri)	New Year's Day	*All AMS Offices Closed*
January 5, 2021 (Tue)	AMS Council Meeting	Washington, DC
January 6-9, 2021 (Wed-Sat)	AMS-MAA Joint Mathematics Meetings (JMM)	Washington, DC

SBS REPORT PREPARED FOR
AMERICAN MATHEMATICAL SOCIETY
14 NOVEMBER 2016

2016 Election

Survey & Ballot Systems
7653 Anagram Drive
Eden Prairie, MN 55344-7311
800-974-8099
surveyandballotsystems.com

SBS Survey&Ballot
systems

November 14, 2016

Carla D. Savage
AMS Secretary
890 Oval Drive
Engineering Building II
Raleigh, NC 27606

Dear Professor Savage:

As the election contractor for the American Mathematical Society (AMS), we are pleased to provide you with the official tabulation for the 2016 Election from ballots qualified in accordance with the election specifications, as approved by the AMS.

The following reports are tabulated from ballots received on or before November 11, 2016. These certified results account for 3,571 ballots cast from 28,137 eligible members, yielding a participation rate of 12.69%.

Also provided are supporting reports, including a Write-In, a Voters by Member Type, a DirectVote® Rating and a DirectVote® Comments Report.

We greatly appreciate the opportunity to serve the AMS with election services and wish you great success in the coming year. If you have any questions regarding the enclosed information, please do not hesitate to call me at (800) 974-8099, Ext. 314.

Sincerely,

Melissa Fiala
Quality Assurance Specialist

Enclosure(s)

TABLE OF CONTENTS

AMERICAN MATHEMATICAL SOCIETY

2016 ELECTION

SUMMARY

DirectVotePlus

AMERICAN MATHEMATICAL SOCIETY

2016 ELECTION

Eligible Voters:	28,137
Paper Ballots:	172
Web Ballots:	3,401
Duplicate Web/Paper Ballots:	2
Final Web Ballots:	3,399
Total Returns:	3,571
Percent Returned:	12.69%

Certified by Survey & Ballot Systems

Melissa A Fiala   11/14/2016

Melissa Fiala   Date

Quality Assurance Specialist

Amy C. Ebli   11/14/2016

Notary Public   Date

AMY CATHERINE EBLI
NOTARY PUBLIC-MINNESOTA
My Commission Expires
January 31, 2017

RESULTS

DirectVotePlus
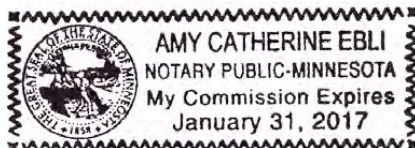
AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION

Vice President (3 Years)

Vote for: 1	Votes	Percent	
David Jerison	1,831	56.4%	DECISION
Gunther Uhlmann	1,411	43.5%	
Write-in – only if different than above	5	0.2%	

Total Valid Ballots:	3,247	
Total Unexercised:	324	
Total Invalid:	0	
Total Ballots Cast:	3,571	

Board of Trustees (5 Years)

Vote for: 1	Votes	Percent	
Ralph L. Cohen	1,759	55.0%	DECISION
Alejandro Uribe	1,435	44.9%	
Write-in – only if different than above	5	0.2%	

Total Valid Ballots:	3,199	
Total Unexercised:	372	
Total Invalid:	0	
Total Ballots Cast:	3,571	

SBS DirectVotePlus®

**AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION**

Member-at-Large of the Council (3 Years)

Vote for: 5	Votes	Percent	
Ravi Vakil	1,846	53.8%	DECISION
Irina Mitrea	1,762	51.4%	DECISION
Talitha M. Washington	1,647	48.0%	DECISION
Gregory F. Lawler	1,584	46.2%	DECISION
Nathan M. Dunfield	1,239	36.1%	DECISION
Sorin Popa	1,204	35.1%	
Pham Huu Tiep	1,093	31.9%	
Robert Pego	930	27.1%	
Edriss S. Titi	923	26.9%	
Charles Steinhorn	885	25.8%	
Write-in – only if different than above	12	0.3%	
Write-in – only if different than above	4	0.1%	
Write-in – only if different than above	1	0.0%	
Write-in – only if different than above	0	0.0%	
Write-in – only if different than above	0	0.0%	

Total Valid Ballots:	3,429
Total Unexercised:	141
Total Invalid:	1
Total Ballots Cast:	3,571

3

RESULTS

DirectVotePlus®

AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION

Nominating Committee (3 Years) (3 to be elected)

Vote for: 6	Votes	Percent	
Bjorn Poonen	2,300	73.1%	DECISION
Linda Chen	2,071	65.9%	DECISION
Laura De Carli	1,892	60.2%	TIE
Shelly Harvey	1,892	60.2%	TIE
Edray Herber Goins	1,789	56.9%	
Matthew Gursky	1,602	50.9%	

Total Valid Ballots:	3,145
Total Unexercised:	426
Total Invalid:	0
Total Ballots Cast:	3,571

RESULTS

DirectVote**Plus**®

AMERICAN MATHEMATICAL SOCIETY

2016 ELECTION

Editorial Boards Committee (3 Years) (2 to be elected)

Vote for: 4	Votes	Percent	
Hélène Barcelo	2,272	74.3%	DECISION
Scott Sheffield	2,110	69.0%	DECISION
Christopher T. Woodward	1,991	65.1%	
Rostislav Grigorchuk	1,762	57.6%	

Total Valid Ballots:	3,057	
Total Unexercised:	514	
Total Invalid:	0	
Total Ballots Cast:	3,571	

WRITE-IN

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AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION

Vice President (3 Years)

CHARLES TRAINA	1

Note: A member may have checked write-in and left text field empty.

WRITE-IN

SBS DirectVotePlus®

AMERICAN MATHEMATICAL SOCIETY

2016 ELECTION

Board of Trustees (5 Years)

| JAVIER ROJO | 1 |

Note: A member may have checked write-in and left text field empty.

WRITE-IN

SBS DirectVotePlus®

AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION

Member-at-Large of the Council (3 Years)	
BENNEDICT GROSS	1
EDITOR ROLFE CHALAROKEN	1
PETER EBENFELT	1
PRES RALF MCCLINTOCK	1

Note: A member may have checked write-in and left text field empty.

VOTERS BY MEMBER TYPE

SBS DirectVotePlus®

AMERICAN MATHEMATICAL SOCIETY
2016 ELECTION

Member Type	Total Members	Paper Ballots	Web Ballots	Total Ballots	% Received	% Participation
AFFIL-BULL	702	1	150	151	21.5%	4.2%
AFFIL-NOTI	1,445	2	289	291	20.1%	8.1%
CONT	35	2	6	8	22.9%	0.2%
EMER	2,593	58	298	356	13.7%	10.0%
FAM-P-H	28	0	11	11	39.3%	0.3%
FAM-P-L	24	0	9	9	37.5%	0.3%
FAM-S-H	18	1	7	8	44.4%	0.2%
FAM-S-L	36	0	6	6	16.7%	0.2%
GRADST	113	1	10	11	9.7%	0.3%
INTRO	1,886	10	294	304	16.1%	8.5%
LIFE	1,379	27	386	413	29.9%	11.6%
NOM	245	0	38	38	15.5%	1.1%
NOM-G	12,012	1	274	275	2.3%	7.7%
NOM-S	330	0	21	21	6.4%	0.6%
RECIP	1,565	12	304	316	20.2%	8.8%
RECIP-H	14	0	9	9	64.3%	0.3%
RECIP-L	13	0	4	4	30.8%	0.1%
REG-H	1,920	19	577	596	31.0%	16.7%
REG-L	2,759	22	588	610	22.1%	17.1%
RET	708	13	80	93	13.1%	2.6%
STUDENT	241	1	28	29	12.0%	0.8%
UNEM	67	2	6	8	11.9%	0.2%
Unspecified	4	0	4	4	100.0%	0.1%
Totals	**28,137**	**172**	**3,399**	**3,571**	**12.7%**	**100.0%**

RECOMMENDATION FROM BULLETIN EDITOR SEARCH COMMITTEE

Susan Friedlander is currently chief editor of the Bulletin. She is in her fourth full term, spanning 2015, 2016 and 2017. Friedlander's service as chief editor actually started in late 2005. Under the procedure established in 2006, a committee consisting of the President, Secretary, Executive Director, and two elected members of the Council (appointed by the President) is required to recommend to the Council a chief editor of the *Bulletin* for the three years 2018-2020. The two members of the Council appointed by President Robert Bryant were Carlos Kenig and Mary Pugh.

The committee was appointed in April and started its discussions via email in early May.

The committee was initially provided with the following information:

- The written report prepared three years ago by the committee that recommended Friedlander's appointment for 2015-2017;
- A statement from Friedlander describing her plans for the Bulletin during the remainder of the current term, and beyond.

The first item, the report of the previous committee, on which the Secretary and Executive Director also served, included findings of the review of member journals carried out by the Committee on Publications (CPub) in 2013. After the present committee's first phone meeting, we invited all of the Associate Editors for Bulletin Articles to share their thoughts about the appointment/reappointment of the Chief Editor for 2018-2020. We received several replies expressing high regard for Friedlander's leadership and collaborative style.

The committee completed its discussions at the end of June.

The search committee's unanimous recommendation is that Susan Friedlander be reappointed as Chief Editor of the *Bulletin* for the term February 1, 2018 to January 31, 2021.

- The growth and nature of the content demonstrate that Friedlander has been very effective at soliciting and selecting articles. Virtually all of the expository articles are solicited. The *Bulletin* is currently very strong. Friedlander puts a lot of energy into her work on the *Bulletin* and she is interested in continuing.
- Friedlander has a collaborative style that encourages participation by members of the editorial board. This contributes to the high quality of the articles. Editorial board members review drafts of articles and recommend improvements.
- The 2013 CPub review showed that the Bulletin is widely read. About half of the respondents to a CPub survey "frequently or always" read the expository research articles and about two-thirds of the respondents regularly read the book reviews and the historical Mathematical Perspectives.
- The Bulletin is highly cited and publishes some truly outstanding papers. See, for example, the citations for recent recipients of the Conant Prize.

Donald McClure (chair),
On behalf of the selection committee