

American Mathematical Society

Council Minutes

Chicago, Illinois

16 April 2011 at noon

Abstract

The Council of the Society met at noon on Saturday, 16 April 2011, in the Chicago Room of the Chicago O'Hare Hilton Hotel, O'Hare International Airport, Chicago, IL, 60666. These are the minutes of that meeting. Although some items were treated in Executive Session, all actions taken are reported in these minutes.

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I. MINUTES

1. Call to Order

1.1. Opening of the Meeting and Introductions

AMS President Eric Friedlander called the meeting to order promptly at noon, CDT, and presided throughout. He asked those present to introduce themselves. Other Council members present were: Alejandro Adem, Matthew Ando, George Andrews, Estelle Basor, Georgia Benkart, Ralph L. Cohen, Robert J. Daverman, John M. Franks, Eric M. Friedlander, Susan Friedlander, Robert Guralnick, Richard Hain, Jane Hawkins, Patricia Hersh, Tara S. Holm, Craig Huneke, Barbara Lee Keyfitz, Bryna Kra, Paul J. Sally, Jr., Chi-Wang Shu, Joseph H. Silverman, T. Christine Stevens, Michelle Wachs, Steven H. Weintraub and David Wright. Other interested parties and guests were: Sandy Golden (Administrative Assistant, AMS Secretary), Greg Lawler (Chair, AMS Committee on Publications), David Manderscheid (Chair, AMS Committee on Science Policy), Ellen Maycock (AMS Associate Executive Director), Donald McClure (AMS Executive Director), Zbigniew Nitecki (Associate Treasurer elect), Carla Savage (Chair, AMS Nominating Committee), and Ronald J. Stern (AMS Board of Trustees). Georgia Benkart was the voting Associate Secretary.

1.2. Recent Additions to this Council

Newly elected or appointed members of the Council took office on 01 February 2011, and they are:

Vice President	Barbara Lee Keyfitz
Treasurer	Jane M. Hawkins
Associate Treasurer	John M. Franks
Members at Large	Matthew Ando Estelle Basor Patricia Hersh Tara S. Holm T. Christine Stevens

President Friedlander welcomed them all.

1.3. List of Council Members

A list of current Council members can be found in **Attachment A**.

2. Minutes

2.1. Minutes of the January 2011 Council

The minutes of the January 2011 Council were distributed by mail prior to the meeting. They also are available on the web at

<http://www.ams.org/about-us/governance/council/council-minutes0111.pdf>

The Council approved the minutes as distributed.

2.2. Minutes of Business by Mail

The Council conducted business by mail since the last Council meeting. Minutes for this business are attached (**Attachment B**). The action taken was to elect **RALPH COHEN** to the Executive Committee of the Council for a four-year term 01 Feb 2011 - 31 Jan 2015. Council also approved these minutes.

3. Consent Agenda

The two items below were approved by consent.

3.1. AMS Sectional Meetings Travel Grants Committee

For several years the AMS has received substantial gifts from an anonymous donor to support the travel of graduate students to the Joint Mathematics Meetings. Upon being told that graduate students also could benefit from participation in Sectional meetings, he promptly pledged \$50,000 for that purpose. The gift will provide partial support of \$250 to support each of approximately 100 graduate students.

The expectation is that the funding for this program will continue. To that end, the Secretary recommends the establishment of the following standing committee:

AMS Sectional Meetings Travel Grants Committee

General Description

Committee is standing.

Term is three years.

Number of members is three, appointed by the President.

Charge

After processing applications from graduate students, the committee selects awardees of travel grants to AMS Sectional Meetings.

3.2. AMS-Simons Travel Grants Committee

The AMS recently obtained a generous grant from the Simons Foundation which will provide an early career mathematicians with \$2000 per year for two years to reimburse travel expenses related to research. Sixty new awards will be made annually over the next three years. Individuals who are not more than four years past

completion of a Ph.D. are eligible. The department of the awardee will also receive a small amount of funding to help enhance the research atmosphere there.

The hope/expectation is that the funding for this program will continue. To that end, the Secretary recommends the establishment of the following standing committee:

AMS-Simons Travel Grants Committee

General Description

Committee is standing.

Term is three years.

Number of members is sixteen, appointed by the President.

Charge

The committee processes applications for and selects awardees of the AMS-Simons travel grants.

4. Reports of Boards and Standing Committees

4.1. Nominating Committee [Executive Session]

The AMS Nominating Committee had recommendations for the Council pertaining to the forthcoming AMS election in Fall 2011. Carla Savage, Chair of the Nominating Committee, reported.

4.1.1. Vice President

The Nominating Committee recommended the appointment of **ALOYSIUS G. HELMINCK** (North Carolina State University) and **ANDREW M. ODLYZKO** (University of Minnesota) as candidates for election to one post as Vice President for a term of three years, beginning 01 February 2012 and ending 31 January 2015. The Council appointed the two of them as candidates.

4.1.2. Members at Large of the Council

The Nominating Committee recommended the appointment of **DAN ABRAMOVICH** (Brown University), **RODRIGO BANUELOS** (Purdue University), **HELENE BARCELO** (Arizona State University), **ARTHUR T. BENJAMIN** (Harvey Mudd College), **JAMES A. CARLSON** (Clay Mathematics Institute), **LLOYD E. DOUGLAS** (University of North Carolina at Greensboro), **ROBERT J. MCCANN** (University of Toronto), **VICTORIA ANN POWERS** (Emory University), **BRUCE E. SAGAN** (Michigan State University) and **ILEANA STREINU** (Smith College) as candidates for election to positions as Member at Large of the Council. Five people are to be elected. The term is three years, beginning 01 February 2012 and ending 31 January 2015. The Council appointed these ten as candidates.

4.1.3. Trustee

The Nominating Committee recommended the appointment of **RUTH M. CHARNEY** (Brandeis University) and **NASSIF A. GHOUSSOUB** (University of British Columbia) as candidates for election as Trustee for a term of five years, beginning 01 February 2012 and ending 31 January 2017. The Council appointed them as candidates.

4.2. *Bulletin of the American Mathematical Society* Editorial Committee [Executive Session]

Susan Friedlander, Chief Editor of the *Bulletin*, recommended the appointment of **PETER KUCHMENT** (Texas A&M) as the *Bulletin* Book Reviews Editor for the 3 year term 01 January 2012 -31 December 2014. Friedlander also recommended the appointments of **ANDREW RANICKI** (University of Edinburgh) and **CHRISTOPH THIELE** (UCLA) as Associate Editors for *Bulletin* Articles for the same term. The Council appointed each to the recommended position for the specified term.

4.3. Committee on Science Policy

The AMS Science Policy Committee met in Washington, D.C., on March 4-5, 2011. A report from this committee will be attached to the January 2012 Council Agenda. David Manderscheid, the committee chair, reported orally on the highlights of the meeting.

4.4. Committee on Meetings and Conferences

The AMS Committee on Meetings and Conferences (CoMC) met in Chicago, Illinois, on March 26, 2011. A report from this committee will be attached to the January 2012 Council Agenda.

5. Old Business

5.1. AMS participation in the SIAM annual meeting

In response to an invitation from SIAM, at its previous meeting in January 2011 the AMS Council approved the following:

Resolution: The Council endorses moving forward with a plan to have the AMS participate in the SIAM Annual Meeting with a goal of starting as early as July 2012, subject to formulation of a detailed plan by the Secretariat and officers and approval by CoMC and Council in March and April 2011.

It did so with the understanding that the AMS President, SIAM President and AMS Secretary would formulate a plan, probably like that for AMS participation in the MAA MathFest and in line with what has already been discussed by the SIAM President and AMS officers. The plan would be negotiated between the AMS and SIAM as it is formulated, to be sure that SIAM supports the way the AMS would choose to plug in.

In mid-January AMS President George Andrews proposed to SIAM, "The AMS suggests that we participate in the SIAM annual meeting with an invited lecture and a single "special session" along our traditional lines

which would link with the AMS lecturer. The AMS would choose the lecturer. Presumably, the chosen lecturer would be a mathematician whose research has either current or expected applications.”

SIAM responded positively. A summary of key parts of the SIAM response is **Attachment C**. At its meeting of 26 March 2011, CoMC approved the plan and recommended that Council do the same.

It was moved and seconded to approve the plan. The Council did so.

5.2. AMS Fellows Program

At its most recent meeting, in January 2011, the Council approved putting a proposal about instituting a Fellows Program for a vote by the AMS membership in the 2011 AMS Election. The Council Committee, consisting of George Andrews, James Glimm (chair) and Susan Friedlander, which proposed modifications

to the 2008 Fellows Program proposal at the January 2011 Council Meeting, had some additional (minor) changes to suggest. One was to allow any Invited Speaker at either an ICM or an ICIAM event before January 1, 2012, not just one who has delivered a plenary address, and who meets the other criteria, to be invited to become an AMS Fellow through the initial seed pool. Another was the addition of an explicit cutoff date – namely, January 1, 2012 – for the Invited Speakers and Prize winners who would comprise the seed pool. The third was to increase the size of the (steady state) Selection Committee from 9 to 12; the SIAM Fellows selection committee has 12 members, and in the interest of covering a broad spectrum of mathematics, a committee numbering 12 is better than one numbering 9. Beyond these, the changes were for clarification and were not substantive.

The entire proposal, with suggested modifications included, can be found in **Attachment D**.

It was moved to amend Item IIB, second sentence, to read, “Attention will be paid to selecting AMS members recognized for their contributions beyond research.” The amendment carried.

It was agreed that the membership criterion for the initial appointment of Fellows is that they be AMS members during the years 2010 and 2011 as of January 1, 2012.

It was also moved and seconded to amend by deleting the sentence “Each year all Fellows are invited to a reception at the AMS annual meeting” from Item IE.

The committee also recommended including the following statement with the election material published in the *Notices* and with the election ballots:

The January 2011 Council directed that the following proposal be presented to the membership in 2011 for their vote to support or oppose the formation of an AMS Fellows Program. The Council further directed that the ballot be accompanied by this statement: “If more than $\frac{1}{2}$ of the members voting on this issue are in favor, then the AMS will implement the program. Information about the history of AMS Fellows Proposals can be found at:

<http://www.TBA> ”

The amended motion carried, almost unanimously.

6. New Business

6.1. Check-off Contribution to HIMU

Since 1989, the Society has collected contributions for the IMU Special Development Fund, which supports travel of mathematicians from the developing world to the International Congress. These contributions have been made through a negative check-off option on individual member dues bills.

The IMU has informed the AMS of a recent change, perhaps temporary, regarding the current need for these funds from the Society. ICM2014 will be held in Seoul and the Korean hosts have promised very generous support for travel of mathematicians from developing countries. Thus the need for contributions to support travel is less. At the same time, the IMU is broadening and growing its programs for other support of mathematics in the developing world.

The current needs have been discussed with the Board of Friends of the International Mathematical Union (FIMU). The FIMU Board is very enthusiastic about the Society's suggestion about allowing more flexibility in the use of the funds. In particular, the staff suggested that the wording on the dues bill be amended to state that the purpose of the contributions is to "foster mathematics research and scholarship in developing countries." The funds could still be used to support travel, but it would also be possible to support scholarships, visiting lectures, access to publications, etc.

This proposal was presented to the Council in April, prior to the ECBT meeting, in order that the change could be made effective in summer 2011.

Council approved modifying the wording as spelled out above.

6.2. Discussion

As a repeat of an item first tried in April 2002, the Council devoted a portion of this meeting to a discussion of one of the items in its purview. At its meeting in November 2010, the Council's Executive Committee decided the topic would be how to better engage young mathematicians into the profession. This was a return to a topic discussed at the Spring 2006 Council Meeting. By way of background, **Attachment E** presents a list of AMS activities that support young mathematicians, many of which promote their involvement in the profession. The wide-ranging discussion touched on -- among other topics -- possible student AMS chapters, the need/value of mentoring, posting of short videos on crucial mathematical topics, use of social networks, appointment of grad students to AMS committees, concerns about how much the AMS gives away, taking advantage of the MathJobs program to promote AMS membership, and the possible development of AMS special activity groups.

No action was taken.

6.3. Report of the Executive Director

The Executive Director, Donald McClure, gave his annual report to the Council highlighting major events of the past year. He began by describing how the AMS has been sensitive in the past two years to the effects of the economy on members and on institutional libraries. He also mentioned how the AMS investment portfolio has recovered from the substantial drop in value in late 2008. He discussed how Mathematical Reviews continues to accommodate the rapid growth in the mathematical literature, and added that a highlight

of the MR year was the rollout of MathJax, which allows subscribers to see reviews in their browsers as polished mathematics, not just as TeX code. Another important piece of news was that the NSF has renewed a grant that will support the AMS Mathematics Research Communities program for another three years.

6.4. Sending Broadcast Email Messages to AMS Members

AMS President Friedlander sought discussion of the circumstances under which the entire AMS membership (minus those who have opted out) could be sent email on issues of general interest. The Council treated the matter of large scale emailing most recently in Spring 2009. At that time the Committee on Science Policy proposed an opt-out policy for distribution of mass emails, but the Council went for the following opt-in policy instead (for inclusion with a checkbox on the annual dues renewal statement):

Check here if you wish to receive periodic emails regarding issues related to grassroots science policy advocacy to increase funding for basic mathematical and scientific research and education.

Then it took an additional step and adopted the following:

The situation concerning federal investment in scientific research is of sufficient concern that the Council authorizes only the President of the AMS to use the email addresses of members collected by the AMS to send a message to members concerning whatever actions on the part of the membership that the President believes are desirable.

Friedlander expressed discomfort about the result that the President can send such an email (without guidance) and that others cannot. He proposed that the AMS could send emailings concerning important issues for the general membership provided that such emailings are approved by a committee consisting (until a new policy is recommended by CoProf and approved by the Council) of the President, the Secretary, and the Executive Director.

It was moved and seconded that the Council approve the occasional use of email messages to the membership with the approval of the President. The motion carried.

7. Announcements, Information and Record

7.1. 2010-2011 Centennial Fellowship

The AMS Centennial Fellowship Committee has announced that Andrew S. Toms (Purdue University) is the winner of the 2011 Fellowship competition. Toms has accepted the award. The amount of this fellowship for 2011-2012 will be \$79,000, with an additional expense allowance of \$7900.

7.2. AMS-NLMS Maclaurin Lecturer

At its Spring 2010 meeting the Council approved the establishment of a lectureship exchange involving the AMS and the New Zealand Mathematical Society, in which, during alternate years, a US-based mathematician would lecture in New Zealand and a New Zealand mathematician would lecture in the US. The first of these is in the scheduling stage, and if the plans work out a US-based person will deliver lectures at the major universities in New Zealand.

7.3. AMS Lecture at Mathfest

Also at its Spring 2010 meeting the Council approved co-sponsoring an AMS-MAA Lecture at Mathfest, the summer MAA meeting. The first joint lecture will occur at the 2011 Mathfest in Lexington, Kentucky. Laura DeMarco will be the featured speaker.

7.4. MCA Progress Report

As mentioned in the January 2011 Council Agenda and Minutes, discussions began in Fall 2010 about possibly establishing a Mathematical Congress of the Americas, which might be held in 2013. The goal would be to highlight the excellence of the mathematical achievements in the Americas and to foster the scientific integration of all mathematical communities there. Representatives from several interested mathematical societies met during the 2011 Joint Mathematics Meetings to explore feasibility of the idea. A steering committee has been formed, which will meet at IMPA in Rio de Janeiro in mid May, 2011. It has 6 representatives appointed by the AMS, CMS, SIAM, SMM, SBM and UMALCA. The committee has sent out a "call for bids" to host the 2013 MCA and the site will be selected at the committee meeting in Rio.

7.5. Next Council Meeting

The next meeting of this Council will be Tuesday, 03 January 2012, in Boston, Massachusetts, starting at 1:30pm.

8. Adjournment

The meeting adjourned at 4:07 CDT.

Attachment A

2011 AMS GOVERNANCE

2011 COUNCIL

Officers

President	Eric Friedlander	University of Southern California	2013
Immed. Past President	George E. Andrews	Pennsylvania State University	2011
Vice Presidents	Barbara Lee Keyfitz	Ohio State University	2013
	Sylvain Cappell	New York University-Courant	2012
	Frank Morgan	Williams College	2011
Secretary	Robert J. Daverman	University of Tennessee	2012
Associate Secretaries	Georgia Benkart	University of Wisconsin	2011
	Michel Lapidus	University of California, Riverside	2011
	Matthew Miller	University of South Carolina	2012
	Steven H. Weintraub	Lehigh University	2012
Treasurer	Jane M. Hawkins	University of North Carolina	2012
Associate Treasurer	John Franks	Northwestern University	2011

Representatives of Committees

Bulletin Editorial	Susan J. Friedlander, Chair	University of Southern California	2011
Colloquium Editorial	Paul J. Sally, Jr., Chair	University of Chicago	2011
Executive Committee	Craig L. Huneke	University of Kansas	2011
Executive Committee	Joseph H. Silverman	Brown University	2012
Executive Committee	Bryna Kra	Northwestern University	2013
Journal of the AMS	Karl Rubin, Chair	University of California, Irvine	2013
Math Reviews Editorial	Ronald M. Solomon, Chair	Ohio State University	2012
Math Surveys & Monographs	Ralph L. Cohen, Chair	Stanford University	2012
Mathematics of Computation	Chi-Wang Shu, Chair	Brown University	2011
Proceedings Editorial	Ken Ono, Chair	University of Wisconsin	2013
Transactions and Memoirs	Robert Guralnick, Chair	University of Southern California	2012

Members at Large

Alejandro Adem	University of British Columbia	2012
Matthew Ando	University of Illinois	2013
Estelle Basor	American Institute of Mathematics	2013
Aaron Bertram	University of Utah	2011
Richard Hain	Duke University	2012
Patricia Hersh	North Carolina State University	2013
Tara S. Holm	Cornell University	2013
William A. Massey	Princeton University	2011
Jennifer Schultens	University of California, Davis	2012
Panagiotis E. Souganidis	University of Chicago	2011
T. Christine Stevens	Saint Louis University	2013
Janet Talvacchia	Swarthmore College	2012
Christoph Thiele	University of California, Los Angeles	2012
Michelle L. Wachs	University of Miami	2011
David Wright	Washington University	2011

2011 EXECUTIVE COMMITTEE

George Andrews	Pennsylvania State University	<i>ex officio</i>
Robert J. Daverman	University of Tennessee	<i>ex officio</i>
Eric Friedlander	University of Southern California	<i>ex officio</i>
Craig L. Huneke	University of Kansas	2011
Bryna Kra	Northwestern University	2013
Joseph H. Silverman	Brown University	2012

2011 TRUSTEES

John M. Franks	Northwestern University	<i>ex officio</i>
Eric Friedlander	University of Southern California	<i>ex officio</i>
Mark L. Green	University of California, Los Angeles	2014
Jane M. Hawkins	University of North Carolina	<i>ex officio</i>
William H. Jaco	Oklahoma State University	2015
Ronald J. Stern	University of California, Irvine	2013
Karen Vogtmann	Cornell University	2012
Carol S. Wood	Wesleyan University	2011

2011 EDITORIAL BOARDS COMMITTEE

Michael T. Lacey	Georgia Institute of Technology	2011
Anatoly S. Libgober	University of Illinois at Chicago	2012
Michael F. Singer	North Carolina State University	2011
John R. Stembridge	University of Michigan	2013
Sergei K. Suslov	Arizona State University	2013
Simon J. Tavener	Colorado State University	2012

2011 NOMINATING COMMITTEE

William Beckner	University of Texas at Austin	2012
Richard Brualdi	University of Wisconsin	3013
Richard T. Durrett	Duke University	2012
Irene Fonseca	Carnegie Mellon University	2011
Sheldon H. Katz	University of Illinois	2011
Ellen E. Kirkman	Wake Forest University	2011
Donal B. O'Shea	Mount Holyoke College	2013
Carla D. Savage	North Carolina State University	2012
Gunther Uhlmann	University of Washington, Seattle	2013

Attachment B

**AMERICAN MATHEMATICAL SOCIETY
MINUTES OF THE COUNCIL
BUSINESS BY MAIL
18 March 2011**

In a mail ballot dated 15 February 2011, there were 26 ballots cast, by:

Alejandro Adem	Patricia Hersh
Matthew Ando	Craig Huneke
George E. Andrews	Barbara Lee Keyfitz
Estelle Basor	Bryna Kra
Aaron Bertram	Ken Ono
Ralph L. Cohen	Karl C. Rubin
Robert J. Daverman	Paul J. Sally, Jr.
John Franks	Jennifer Schultens
Eric M. Friedlander	Chi-Wang Shu
Susan J. Friedlander	Joseph H. Silverman
Richard Hain	T. Christine Stevens
Jane M. Hawkins	Janet Talvacchia
Tara S. Holm	David Wright

In the election to the Executive Committee the result was:

Ralph Cohen	16
David Wright	10

Accordingly, Cohen is declared elected, effective immediately, and ending when a replacement is determined in the election of February 2015.

Robert J. Daverman
Secretary
March 22, 2011

Attachment C**AMS Presence at the SIAM Annual Meeting**

There is a tentative agreement between AMS and SIAM to establish an AMS presence at the SIAM Annual Meeting. This presence will mirror the form of SIAM's presence at the Joint Math Meetings. In particular,

AMS will

- * Have one invited speaker slot (semi-plenary); and
- * Organize four minisymposia.

SIAM will:

- * Label the sessions (including the invited speaker) organized by the AMS as sessions contributed by the AMS.
- * Appropriately note AMS cooperation with the conference on the SIAM web pages.

Note that each minisymposium typically occupies a two-hour slot in the program. A minisymposium consists of four talks, each of approximately 30 minutes each. They are not unlike special sessions at the Joint Math Meetings. One person usually organizes the session and invites the four speakers.

Since the AMS will have four designated minisymposium sessions, these will be scheduled over two days (one in the morning, one in the afternoon each day).

Financial Arrangements

The financial arrangements will mirror those between SIAM and AMS for the Joint Math Meetings.

Logistical Arrangements

The AMS is responsible for the structure and organization of its presence and may form its own committee to organize its sessions. The AMS will need to provide to SIAM the information needed for the program in a timely fashion.

Attachment D**A Proposal for a Fellows Program of the AMS**

The Fellows program is created and updated by the Council of the AMS. The program below describes in general terms what a new Fellows program will look like. If approved, some details of the program may be changed by the AMS Council prior to implementation in order to address practical needs. Future Councils can make further changes, keeping in mind the intent of the membership in approving the initial program.

The goals of the Fellows Program are:

- *To create an enlarged class of mathematicians recognized by their peers as distinguished for their contributions to the profession.*
- *To honor not only the extraordinary but also the excellent.*
- *To lift the morale of the profession by providing an honor more accessible than those currently available.*
- *To make mathematicians more competitive for awards, promotion and honors when they are being compared with colleagues from other disciplines.*
- *To support the advancement of more mathematicians in leadership positions in their own institutions and in the broader society.*

I. Program (steady-state)

- 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 take part in the selection of new Fellows,
 - To present a “public face” of excellence in mathematics, and
 - To 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. Following a selection process (see below), individuals are invited to become
- D. Fellows. They may decline and they may also resign as Fellows at any time.

¹ This proposal’s recommendation to Council is 5% of members. At present there are about 30,000 members so the number of Fellows would be about 1,500.

- E. Each year all Fellows are invited to a reception at the AMS annual meeting. Fellows receive a certificate and their names are listed on the AMS web site. 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, all eligible AMS members who have done one or more of the following are 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). ⁵
- B. An additional 50 Fellows are selected by a committee appointed by the President with the advice of the Executive Committee of the Council. Particular attention will be paid to selecting AMS members recognized for their contributions to education and service to the profession, and to addressing issues of diversity.
- C. Any person who falls into one of the three categories above, and who is an AMS member during the years 2010 and 2011 will be invited to be a Fellow.

III. Selection Process

- A. New Fellows are selected each year after a nomination process. The nomination

²An invited address is one given at the invitation of the program committee and delivered before January 1st, 2012.

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

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

⁵These are the Birkhoff, Bôcher, Cole, Conant, Doob, Eisenbud, Fulkerson, Moore, Robbins, Satter, Steele, Veblen, Whiteman, and Weiner prizes. Again, they must have been awarded before January 1st, 2012

process is carried out under the direction of the Secretary with help from the AMS staff. The procedures for nominating AMS Fellows will be 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, nominates 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.
- D. To be eligible for nomination to Fellowship, an individual must be an AMS member as of March 31 during the year in which he or she is nominated as well as for the prior year.
- E. A 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 nominator and three additional AMS members who support the nomination, with at least two of these individuals current Fellows.
- F. Any person who is nominated and is not selected a Fellow will remain an active nominee to be considered by the Selection Committee for possible selection for a further 2 years.
- G. Each year the January Council provides a guideline for the number of Fellows to be selected⁶. 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. The Selection Committee has the discretion to make nominations to fulfill the general goals of the Fellowship.
- H. Those members who are chosen by the Selection Committee are invited by the President to become new Fellows of the AMS.

Attachment E

⁶ 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.

AMS Activities That Support Young Mathematicians

Membership

- **Nominee Members**

As of March, 2011, AMS is providing free memberships to 12,093 individuals as Nominee members. About 95% of these are full time graduate students who are studying at universities with institutional AMS memberships. A Nominee membership includes all usual member privileges such as discounts on AMS products and meeting registrations. Nominee members may request to receive paper copies of the *Notices* and the *Bulletin*. The Council approved changes in the member categories in January 2011, which will begin with the 2012 membership year. In the future, graduate students who are named by their institutions will be called Graduate Student members.

- **Entry level and student level dues**

Currently about 30% of all Regular AMS members pay the “Entry” level dues of \$63 (1/2 of regular low dues). The student/unemployed rate is $\frac{1}{4}$ of regular high dues, or \$42 in 2011.

Employment

- **Employment Center**

The Employment Center is held each year at the Joint Mathematics Meetings. In 2011, 772 job candidates registered online for the Employment Center; employers used 102 tables. The Employment Center now offers tables and online support for self-scheduled interviews. There are two rooms—one for tables that have one or two interviewers and one for tables that can accommodate up to six interviewers. The AMS provides financial support and staffing to the Employment Center.

- **MathJobs.org**

The AMS began administering the MathJobs.org automated job application system in 2001, at the request of the original developer, Duke University’s Department of Mathematics. In the last 12 months, 429 employers from 35 countries have used the service for 897 job ads; 5,478 applicants have submitted 14,8681 applications. Only North American employers can use the system for application purposes; others just advertise.

- **Job ads/Coversheet**

The job ads in Employment Information in the Mathematical Sciences (EIMS) now appear exclusively on the AMS website and are almost universally accessed by job seekers. The AMS Coversheet, introduced over 15 years ago, has become standard for job applications.

- **Annual Survey**

The Annual Survey tracks the employment status and starting salaries of new PhDs in the “Employment Experience of New Doctorates” survey, which is the

best source of information about the job market for younger mathematicians. The Annual Survey is a joint effort of the AMS, ASA, IMS, MAA, and SIAM. The AMS provides over 80% of the financial support for the survey.

- **Sloan Project: Mathematical Sciences Career Information DVD**
The Careers in Mathematics video, which was reproduced as a DVD using funds from the Sloan Foundation, contains interviews with mathematicians working in industry, business and government. Individuals interviewed have come from industrial-based firms such as Kodak and Boeing, business and financial firms such as Price Waterhouse and D. E. Shaw & Co., and government agencies such as the National Institute of Standards and Technology and the Naval Sea System Command.

Fellowships and Grants

- **High school students**
 - **Epsilon Fund—Young Scholars Program**
In 1999 the AMS started the Epsilon Fund to help support summer programs for mathematically talented high school students. For the summer of 2011, there are 10 programs supported with a total of \$100,000.
 - **Karl Menger Memorial Prize**
The majority of the income from this fund is to be used by the Society for annual awards at the International Science and Engineering Fair.
- **Undergraduate students**
 - **Trjitzinsky Prize**
Each year the Society selects a number of geographically distributed schools who in turn make one-time awards to beginning mathematical students to assist them in pursuit of careers in mathematics. The amount of each scholarship is currently \$3,000.
 - **Math in Moscow**
The National Science Foundation decided to not fund the most recent grant proposal submitted by the AMS for the purpose of providing scholarships for U.S. undergraduate mathematics or computer science majors to participate in a one-semester program at the Independent University of Moscow. Last fall, the AMS revised the proposal and resubmitted it to NSF. If the proposal is funded, we would resume the scholarship program in 2012.
- **Graduate students**
 - **Travel Grants for Graduate Students**
With support from a private gift, the AMS has created two programs to provide partial funding for graduate students to attend AMS meetings. A doctoral student in his or her last year of study may apply for \$500 to help pay for expenses to the Joint Mathematics Meetings. A full-time doctoral student may apply to receive \$250 in funding to travel to an AMS Sectional Meeting.

- **Mass Media Fellowship Program**

In affiliation with the AAAS, the AMS sponsors one fellowship per year for a graduate student in the mathematical sciences to work full-time over the summer as a reporter, researcher or production assistant in U.S. mass media organizations -- radio and TV stations, newspapers and magazines. The program is intended to strengthen the connections between science and the media, to improve public understanding of science, and to sharpen the ability of the fellows to communicate complex scientific issues to non-specialists.
- **Postdoctoral mathematicians**
 - **AMS Congressional Fellows**

Since 2005, the AMS, in conjunction with the AAAS, has sponsored a Congressional Fellow each year. The Fellow spends the year working on the staff of a Member of Congress or a congressional committee, working as a special legislative assistant in legislative and policy areas requiring scientific and technical input. The fellowship stipend from September 2011 to August 2012 is US\$74, 872, with allowances for relocation and professional travel and a contribution towards health insurance.
 - **Project NExT Fellows support**

Project NExT (New Experiences in Teaching) is a program of the Mathematical Association of America that provides training for young mathematicians beginning their careers. The AMS has provided funding for six NExT Fellows each year since 2002.
 - **Centennial Fellowships**

The AMS Centennial Research Fellowship Program makes awards annually to outstanding mathematicians to help further their careers in research. Those who are 3 – 12 years past receipt of the doctorate, and hold a tenured, tenure-track, or postdoctoral position in North America are eligible. The stipend for the fellowship awarded for 2011-2012 is US\$79,000, with an additional expense allowance of about US\$7,900.
 - **AMS-Simons Travel Grants**

The AMS has recently received funding from the Simons Foundation to launch a program of travel grants to individuals who are within four years of receiving the PhD degree in the mathematical sciences. Each year, for three years, 60 young mathematicians will receive grants of \$4,000 over two years to cover travel related to research. The AMS will administer these personal grants. The department of each awardee will receive \$400 each year to use to enhance its research environment. Applications for the first year of the grant were due on March 31.
 - **ICM travel grants**

Since 1990, the National Science Foundation has funded a grant that is administered by the AMS for travel to the International Congress of Mathematicians. The most recent example is the travel grant program for U.S. mathematicians to attend ICM2010 in Hyderabad, India. We

gave out a total of 119 awards, of which 84 mathematicians accepted, for a total expense of US\$244,676. Typically, about 40% of the grants awarded go to those within 6 years of receipt of the doctorate.

Conferences and Events

- **Mathematics Research Communities**

This program is designed to support early career mathematicians as they begin their research careers. The goal of the MRC program is to develop and sustain long-lasting cohorts for collaborative research projects in many areas of mathematics. The program includes week-long summer conferences in each topic, Special Sessions at the JMM, electronic communication, and a longitudinal study of participants. NSF is funding the MRC program and recently renewed the MRC grant for an additional three years, covering programs that will begin with summer conferences in 2011, 2012 and 2013.

- **Joint Mathematics Meetings**

The AMS jointly sponsors the reception for graduate students and first-time participants at the Joint Mathematics Meetings with the MAA. The JMM has special student and unemployed rates. The AMS exhibit at the JMM always includes publications and resources for young mathematicians.

- **Grad School Fair**

Since 2008, the AMS and MAA have jointly sponsored this popular program held at the JMM, aimed at undergraduate students considering graduate school. Typically, there are about 50 tables for graduate programs and at least 300 students who attend.

- **Arnold Ross Lecture**

Beginning in 2003, the AMS presents a lecture each year for talented high school mathematics students whose purpose is to stimulate their interest in mathematics beyond the traditional classroom and to show them the tremendous opportunities for careers in mathematics.

- ***Who Wants to Be a Mathematician***

In this game, high school or undergraduate students compete for cash and prizes by answering multiple choice mathematics questions. The cash prize in each game is donated by the AMS. Other prize donors are: Maplesoft Inc., Texas Instruments, and John Wiley & Sons. The game is a program of the AMS Public Awareness Office and was developed by Mike Breen (AMS Public Awareness Officer) and Bill Butterworth (DePaul University). In 2010 and 2011, a national version of Who Wants to Be a Mathematician was conducted at the Joint Mathematics Meetings, funded by a private gift.

Resources

- **AMS Books**

- *Mathematical Publishing: A Guidebook* (Krantz, 2005)
- *A Mathematician's Survival Guide: Graduate School and Early Career Development* (Krantz, 2003)

- *Starting Our Careers: a Collection of Essays and Advice on Professional Development from the Young Mathematician's Network* (ed. Bennett and Crannell, 1999).
- *Graduate Studies in Mathematics series*
- *General interest books, such as: what's Happening in the Mathematical Sciences, Math Medley, Math Everywhere and Math Connections.*
- **Brochures**
 - *A Guide to Online Resources for high school math students*
 - *Resources for undergraduates in mathematics*
- **Posters**
 - *Mathematical Moments*
 - *What Can I Do With a Math Degree?*
 - *Women Doing Mathematics*
 - *Powered By Math*
 - *Fibonacci Numbers in Nature*
 - *Mathematics, language of the sciences*
 - *Math Camps Poster*
 - *Headlines & Deadlines for Students*
 - *Math in the Media*

Mailings

- **Department mailings**

Membership & Programs mails packets to institutional members each semester; Public Awareness mails packets to department chairs each fall. All of these mailings include materials that would be of interest to undergraduate and graduate students.
- **PAO outreach to high schools**
 - Public Awareness mails packets to mathematics departments in selected high schools each fall (list rotates each fall).
 - The AMS is now participating in the annual conference of the National Council of Teachers of Mathematics, with a small booth to distribute materials of interest to high school teachers.

Electronic Resources and Communications

- **Online resource pages for:**
 - high school students
<http://www.ams.org/programs/students/high-school/high-school>
 - undergraduate students
<http://www.ams.org/programs/students/undergrad/undergrad>
 - graduate students and recent doctorates
<http://www.ams.org/programs/students/gradinfo/gradinfo>
- **Headlines & Deadlines for Students**

This service provides periodic email notifications in addition to an ongoing web site with news and information.
<http://www.ams.org/news/student-enews/news-for-students>

- **AMS Grad Student Blog**
Based at Williams College and overseen by Frank Morgan, entries for this blog are written by a team of graduate students.
<http://mathgradblog.williams.edu/>
- **Feature Column**
This series of essays is supposed to be aimed at undergraduate students and above (including the general public) who have some background in mathematics.
<http://www.ams.org/samplings/feature-column/fcarc-featurecolumn>
- **Math Awareness Month**
The resources for MAM each year are aimed primarily at mathematics departments to inform and involve undergraduate students. MAM is sponsored by the JPBM; the responsibility for a specific MAM rotates among the AMS, ASA, MAA and SIAM. The AMS hosts www.mathaware.org.