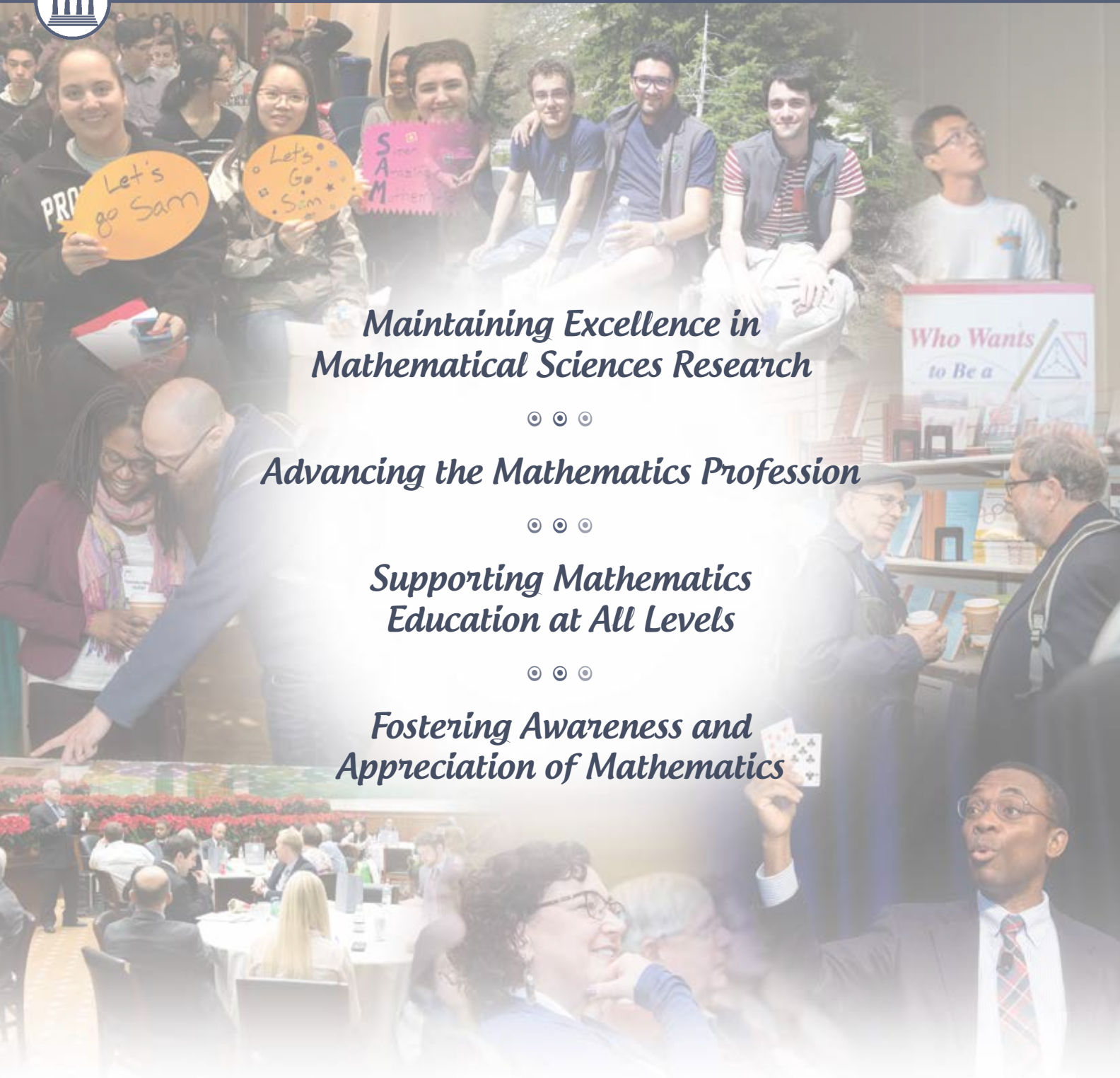




# 2016 ANNUAL REPORT





*Maintaining Excellence in  
Mathematical Sciences Research*



*Advancing the Mathematics Profession*



*Supporting Mathematics  
Education at All Levels*



*Fostering Awareness and  
Appreciation of Mathematics*

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Dear Colleagues and Friends of the AMS,

It is our pleasure to send you the *2016 Annual Report* of the American Mathematical Society, along with our sincere thanks to all of you who are members, volunteers, authors, donors, and staff. You play a key role in supporting the full spectrum of efforts by the Society to fulfill its mission to further the interests of mathematical research, scholarship, and education, serving the national and international community through publications, meetings, advocacy, and other programs. This report highlights many of our 2016 accomplishments, provides a financial report, and recognizes our many donors.

We are especially interested in supporting students and early-career mathematicians and hope you will help inform those you know of the value of joining the AMS. Indeed, your donations support programs such as the Graduate Student Chapter Program. This program is available because of annual mathematician donations, and we hope you'll encourage the establishment of a Graduate Student Chapter Program at your institution.

We want to call your attention to two significant transitions in the senior leadership of our Society. In August 2016, Donald E. McClure retired after serving the AMS for seven and a half years as Executive Director. We thank him for his long record of service to the AMS, his calm and steady approach that helped the AMS weather challenging financial times, and his introduction of several new initiatives to support mathematicians. At the end of 2016, Samuel M. Rankin III retired after twenty-five years of service to the AMS, leading the AMS Washington Office since 1995. We have benefited tremendously from his deep understanding of mathematical and scientific policy. Karen Saxe, a former mathematics professor at Macalester College and AMS-AAAS Congressional Fellow, was hired in 2016 as Director of the Washington Office.

AMS meetings and professional programs expanded and served mathematicians at all stages of their careers. In 2016 the AMS established a Department of Education and Diversity, with Helen G. Grundman as its Director. One of her first actions was to co-organize the tremendously successful panel *Hidden Figures* at the 2017 Joint Mathematics Meetings. The new department will focus on diversity in graduate education. The Mathematics Research Communities program for early-career mathematicians welcomed its 1000th participant in 2016. AMS Sectional Meetings, employment services, public awareness activities, fellowships and grants, and Washington Office advocacy work remained vital in connecting mathematicians and communicating mathematics.

In the publications realm, the AMS book program was robust; eBooks provided a new and growing source of revenue; AMS Blogs covered a range of mathematics, mathematics education, and professional topics; and AMS journals remained highly respected. MathSciNet, an essential resource for researchers, continued to grow. The AMS Washington Office and Public Awareness Office advanced the Society's leadership role in advocacy and awareness.

We hope you enjoy reading highlights of the year in this *2016 Annual Report*. Please reach out to us with any questions.

Robert Bryant  
President 2015–2016

Catherine A. Roberts  
Executive Director



Robert L. Bryant  
AMS President, 2015–2016

Photo by Les Todd, Duke Photography.



Catherine A. Roberts  
AMS Executive Director

Photo courtesy of Marc Studios.



## Maintaining Excellence in Mathematical Sciences Research

AMS long-standing and new programs, publications, and tools support researchers, and the Society recognizes achievements of others through prizes and awards.

Meetings & Conferences are a primary way mathematicians at all levels connect with each other. The 2016 Joint Mathematics Meetings in Seattle, WA, drew over 6,200 mathematicians, exhibitors, and staff to over 3,000 presentations (talks, panels, and posters) as well as events and exhibits. AMS Sectional Meetings drew over 3,100 participants, including 104 Graduate Student Travel Grant recipients. Thanks to all the organizers and to the host institutions: University of Georgia, Athens; Stony Brook University, NY; University of Utah, Salt Lake City; North Dakota State University, Fargo; Bowdoin College, Brunswick, ME; University of Denver, CO; University of St. Thomas, Minneapolis, MN; and North Carolina State University, Raleigh.

The Mathematics Research Communities program drew its 1000th participant. The 2016 week-long sessions “Lie Group Representations, Discretization, and Gelfand Pairs,” “Character Varieties: Experiments and New Frontiers,” “Algebraic Statistics,” and “Mathematics in Physiology and Medicine” drew 119 early-career mathematicians.

Ravi Vakil, Stanford University, gave the Erdős Memorial Lecture, “Cutting and Pasting in Algebraic Geometry,” at the Sectional Meeting at the University of Utah.

MathSciNet® remains a key resource for researchers worldwide: 125,489 items and 88,921 reviews were added to the Mathematical Reviews database that feeds MathSciNet. Historically, the growth rate is 3.5%, but this year the overall increase was 5.64% larger than the increase in 2015.

Among the upgrades in 2016: search results are sortable in a number of different ways, including chronologically, reverse chronologically, and by citations; searches in MathSciNet insert Boolean AND between terms by default; search results include facets that allow users to filter and refine searches; Author Search displays with more information.

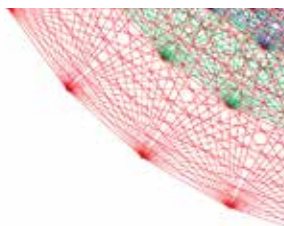
AMERICAN MATHEMATICAL SOCIETY  
**MathSciNet**  
Mathematical Reviews

## BY THE NUMBERS

as of April 14, 2017

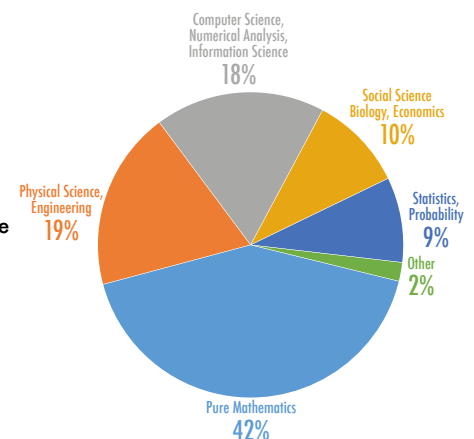
**3,397,678** total publications    **841,009** authors indexed    **352,345** authors cited    **20,667** active reviewers

**2,061,837** direct links to original articles    **11,807,543** matches citations    **Over 1,800** current journals    **3,391** journals cited



## CONTENT BY DISCIPLINE

MathSciNet isn't just pure math. Additions to the Mathematical Reviews Database in 2016 were from many disciplines.



AMERICAN MATHEMATICAL SOCIETY  
**MathSciNet**  
Mathematical Reviews



**Pamela Harris**, Williams College, Williamstown, MA  
**AMS member since 1997**

"Participating in two Mathematics Research Communities (MRC), in 2014 and 2016, helped me become part of a research community outside of my institution and introduced me to open problems in my areas of research. The research problems were new and exciting, but what I found most valuable is the connections I made with other participants, both in and outside of my immediate research group. These connections have continued for years after the initial MRC session, have developed into fruitful collaborations, and more importantly, have become friendships that have increased my sense of belonging to the mathematical community at large."

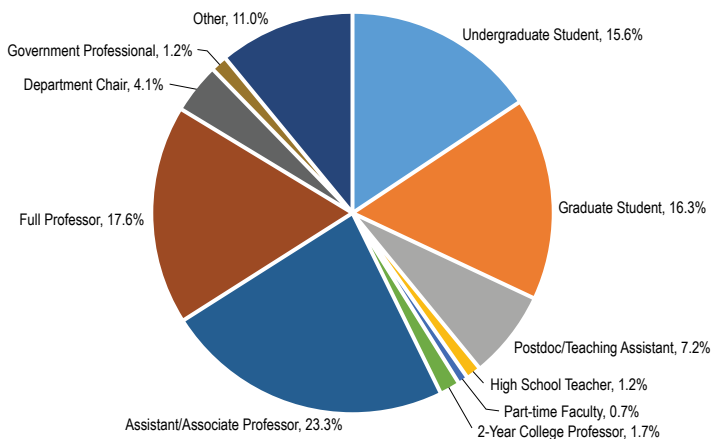


**David A. Blanc**, Haifa University, Israel  
**AMS member since 1984**



"As a graduate student, I had access to *Mathematical Reviews* only in the print form, 12 huge volumes per year, making a search for one particular topic or paper quite complicated. Luckily Norman Steenrod had collected all the math reviews in algebraic topology in a more accessible form, which one could usefully browse through from start to finish.

"Over the years *Mathematical Reviews* has become much easier to search, on MathSciNet, and still provides a service which has no equivalent in a general-purpose search engine. I hope current graduate students appreciate all the work that went into preparing the MR database and making it easy to access!"

## JMM 2016 PARTICIPANTS



## AMS POLICY COMMITTEES

-  Committee on Education
-  Committee on Publishing
-  Committee on the Profession
-  Committee on Meetings & Conferences
-  Committee on Science Policy



**AMS Books and Journals** remain highly respected. AMS published 70 books in 2016. Notable monographs: *Gallery of the Infinite*, by Richard Evan Schwartz (received honorary mention at the American Association of Publishers 2016 PROSE Awards for Mathematics); *Algebraic Spaces and Stacks*, by Martin Olsson; and *The Case of Academician Nikolai Nikolaevich Luzin*, edited by Sergei S. Demidov and Boris V. Lévshin. AMS continued to create eBook products of previously published titles. AMS research journals remained among the top-ranked in mathematics according to the Journal Citation Reports Impact Factor ratings.

**AMS Prizes and Awards** are given for research, education, model programs, art, communication, and service. The AMS awarded 13 AMS and AMS joint prizes and awards to individuals. Geordie Williamson received the first Chevalley Prize for his work on the representation theory of Lie algebras and algebraic groups. The prize was established by George Lusztig to honor Claude Chevalley (1909–1984), a founding member of the Bourbaki Group.

The Department of Mathematics at Morehouse College received the AMS Mathematics Programs That Make a Difference Award, and the Department of Mathematics at California State University Northridge (CSUN) received the AMS Award for an Exemplary Program or Achievement in a Mathematics Department.

## AMS JOURNALS



1,001 articles published in 10 AMS research journals in 2016

46 articles published in the *Bulletin of the AMS*

201 articles published in 4 translation journals in 2016

## AMS BOOKS



5,075 AMS co-published & distributed print and electronic books

18 active AMS book series

8 active AMS co-published book series

17 AMS distributed book series



**Jennifer Taback**, Bowdoin College, Brunswick, ME

**AMS member since 1993**

"Organizing a sectional meeting was a lot of work but also a lot of fun. Sectional meetings are important to people at many different stages of their careers; they provide a chance to collaborate, to showcase research, to learn about new ideas in the field. It was also a chance to showcase Bowdoin College and Maine in the fall, our best season! Many participants enjoyed the lobster bake on Saturday evening. Bowdoin College is in Brunswick, Maine, a small town with a wonderful community. Hosting a sectional meeting was a chance to show local residents the warmth and strength of the mathematical community. Local schools have strong math programs, including math teams and math clubs. As part of the meeting, we hosted a community lecture given by Dr. Michael Kleber of Google, which brought together local math students (most of the Brunswick junior high eighth grade math team, for example), local math teachers, community members, Bowdoin students, and conference participants. I was part of organizing two special sessions, so I was able to participate on a research level as well. I appreciated all the support of the AMS staff who helped to make the meeting a great success."



## Advancing the Mathematics Profession

The AMS helps students and mathematicians at all stages to find the best resources, support, and tools to advance their careers.

A new **Membership Department** was established in 2016 to secure and grow an effective society of members in the mathematical sciences and to communicate with members the importance of supporting this work, both financially and by volunteering. We hired Megan Turcotte as its Director. Her first appearance was at the Joint Mathematics Meetings (JMM) in January, where she learned about what the AMS does at its annual meeting and met members in the AMS exhibit area and at the AMS Dinner.

The AMS continued its valued **employment services**, including MathJobs and the Employment Center at JMM. MathJobs, an automated job application system sponsored by the AMS, recorded 267,957 logins by faculty/staff, job applicants, referees, and others in 2016.

**Advocacy work and government relations** handled by the AMS office in Washington DC connect mathematicians with elected officials, decision makers, and funding agencies by communicating about the value of mathematical sciences research at exhibitions, Committee on Science Policy meetings, congressional testimonies and Hill visits, and through partnerships with organizations such as the Coalition for National Science Funding. The AMS Public Awareness Office continued its work of **promoting awareness of the role mathematics plays in science, nature, technology, and human culture** through Mathematical Moments, free posters, and online resources such as the Feature Column and Math in the Media.

## BULLETIN OF THE AMS

Articles available from the free archive going back to 1891:

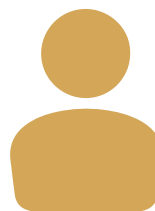
- *On the doubly infinite products*, by Thomas S. Fiske (1891)
- *The Mittag-Leffler testament and institute*, by Caroline E. Seely (1916)
- *Loop spaces of H-spaces*, by William Browder (1960)
- *String theory and math: Why this marriage may last. Mathematics and dualities of quantum physics*, by Mina Aganagic (2016)

2016 Annual Report

3,164 people (279 from outside the US) attended the 2016

## AMS SECTIONAL MEETINGS

in these locations:



University of Georgia, Athens  
Stony Brook University, NY  
University of Utah, Salt Lake City  
North Dakota State University, Fargo  
Bowdoin College, Brunswick, ME  
University of Denver, CO  
University of St. Thomas, Minneapolis, MN  
University of North Carolina, Raleigh



*Notices of the AMS* continued its transformation in 2016, with the popular Graduate Student Section and the Back Page, opportunity for online comments on articles, and Samplers of upcoming lectures at AMS Sectional Meetings. Editor-in-Chief Frank Morgan and the editorial board invited article submissions, and 2016 saw a wide range of pieces: expository articles about mathematics, tributes to deceased mathematicians, reports, interviews, reviews, opinions, and more.

**Fellowships and grants** offered exciting opportunities to early-career mathematicians. The 2016 AMS-AAAS Congressional Fellow Catherine Paolucci started working in the office of Senator Al Franken (MN); AMS-AAAS Media Fellow Kelsey Houston-Edwards worked at PBS *NOVA*; AMS Centennial Fellow Eyal Lubetzky, Courant Institute of Mathematical Sciences, New York University, used the fellowship to visit Princeton University during the 2016–2017 academic year to carry on his work in probability theory and combinatorics. In 2016 the AMS Simons Grants program served its 300th early-career mathematician. The grants support research-related travel. AMS Graduate Student Travel Grants were awarded to 222 to attend JMM and AMS Sectional Meetings.

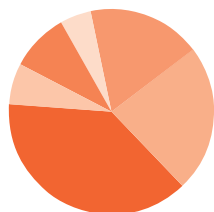
The AMS continued to develop and partner with others on **tools to help researchers and authors**. Math Viewer (a new option for viewing articles directly in your browser, offering an interactive alternative to PDF and print reading) and Open Math Notes (an AMS-hosted repository of freely downloadable mathematical works in progress) were developed in 2016 and launched in January 2017. The AMS continued to support MathJax, which received a Special Libraries Association Award, and the AMS pledged support for arXiv, the much-used repository of electronic preprints, known as e-prints, of papers.

The AMS launched **Book Ends**, a blog edited by Eko Hironaka, as a forum for discussions about mathematics books. Topics included interviews with authors on the writing and publishing process and advice to new authors, featured books, and publishing opportunities for undergraduates.

The AMS made more resources available to those interested in learning more about careers in **Business, Industry and Government (BIG)**. At JMM 2016 the AMS Committee on Science Policy organized the panel, “Mathematical Careers beyond Academia,” moderated by Kristin Lauter, Microsoft Research, and in 2016 we planned for a Careers in BIG booth at JMM 2017, where individuals working in BIG could share experiences and advice.

## ANNUAL SURVEY OF THE MATHEMATICAL SCIENCES

(AMS, ASA, IMA, MAA, SIAM) reports:



- Number of PhDs awarded
- Employment of New PhDs
- Recruitment & Hiring
- Salaries
- Faculty Size
- Graduate Students
- Course Enrollments & Degrees Awarded
- Demographics in the Mathematical Sciences
- Department Groupings

## AMS GRADUATE STUDENT TRAVEL GRANTS



- 1,704 grants from 2009–2016
- 118 awards to JMM 2016
- 104 awards to 2016 AMS Sectional Meetings





**Loribeth Alvin**, Bradley University  
**AMS member since 2006**

"The AMS Simons Travel Grant allowed me the opportunity to attend several conferences and enjoy a research visit with collaborators, which I would not have been able to do without the program's support. By attending these conferences, I was able to discuss some of my current research results with other mathematicians, which has led to new and exciting collaborations. During the research visit, we were able to complete the final details of a paper and discuss potential directions for continued collaboration. I am grateful to have received this award, as it has helped to broaden my research program and assisted in fostering connections with other experts in the field."



Photo courtesy of Coe College.

**Brittany Miller**, Coe College  
**AMS member since 2010**

"MathJobs.org is a great central location to begin a job search. Although the number of job postings can be overwhelming, the convenience of having mostly everything in one place makes it manageable to submit applications. MathJobs made it easy for me to find a job at an institution that is a perfect fit for me."



**David Saltman**, Center for Communications Research, Princeton, NJ.

**AMS member since 1974**

"I am Director of the Center for Communications Research - Princeton. We are a mathematics 'think tank' that does classified research for the US government and specifically for the National Security Agency (NSA). I served on the AMS 'Mathematical Careers beyond Academia' panel at the 2016 Joint Mathematics Meetings and emphasized that we work extremely collaboratively and that each of our researchers works in many different areas. We emphasize breadth and depth in our mathematics. When asked about how someone might begin to participate in our community, I mentioned the two NSA programs, the Director's Summer Program for undergraduate mathematics majors, and the Graduate Mathematics Program, as well as our summer program, SCAMP."

## MATHJOBS 2016



- 680 employers posted 1,473 new jobs
- 7,904 individual applicants made a total of 152,950 new applications
- 17,124 reference letters were uploaded by 10,152 writers

## AMS CENTENNIAL FELLOWSHIPS



- First awarded in 1974
- 101 fellows to date
- David A. Vogan Jr., Centennial Fellowship 1977–1978, AMS President 2013–2014



## Supporting Mathematics Education at All Levels

The AMS is committed to providing publications and forums that allow mathematics education researchers and educators to share their expertise and experiences to improve teaching and learning of mathematical sciences.

**Helen G. Grundman** became the first Director of the newly established Department of Education and Diversity. Her initial focus has been on graduate education in the mathematical sciences, the preparation of students to enter graduate programs, mentoring of students for success in graduate school, and the promotion of diversity and inclusiveness at the graduate level.

The 2016 AMS Committee on Education (COE) meeting, chaired by **Douglas Mupasiri**, focused on “Broadening the Conversation: Engaging Other STEM Education Stakeholders.” The meeting included presentations by Ted Hodapp, American Physical Society; Nancy Bakowski, American Chemical Society; Tara Holm, Cornell University and Transforming Post-Secondary Education in Mathematics (TPSE Math); Michael Gage, University of Rochester and WeBWork; Jess Ellis, Colorado State University; Emmanuel Schanzer, Bootstrap; Tie Luo, National Science Foundation; Gavin LaRose, University of Michigan; Robin Gottlieb, Harvard University; Catherine Good, Baruch College, CUNY. Mathematics department chairs from across the US participated in the discussions, which will help guide the new AMS Department of Education and Diversity.

Book series published and co-published by the AMS include CBMS Issues in Mathematics Education, CBMS Regional Conference Series in Mathematics, IAS-PCMI–The Teacher Program Series, and MSRI Mathematical Circles Library. Textbooks and lecture notes series include AMS Pure and Applied Undergraduate Texts, Courant Lecture Notes, Graduate Studies in Mathematics, Student Mathematical Library, and University Lecture Series. The AMS blog *On Teaching and Learning Mathematics*, edited by Ben Braun, covered what’s in your syllabus, classroom culture, teaching inverse functions, conceptual understanding of calculus, and learning mathematics in context with modeling and technology.

At JMM 2016 the AMS hosted Focus Groups for Undergraduate and Graduate Program Directors and the AMS Committee on Education panel “What Is a Mathematics PhD?” and co-hosted a joint AMS-Association for Women in Mathematics Committees on Education panel, “Work in Mathematics Education in Departments of Mathematical Sciences.”

*Notices of the AMS* published its annual list of doctoral degrees conferred in mathematical sciences as a way to thank the universities and recognize the new generation of PhDs. In 2016 *Notices* also published “The Common Core and the Potential for Mathematicians to Improve the Teaching of School Mathematics,” “Can Math Education Research Improve the Teaching of Abstract Algebra?” and “A Common Vision for Undergraduate Mathematics.”

## ON TEACHING & LEARNING MATHEMATICS BLOG

Top 5 Posts in 2016



1. Famous Unsolved Math Problems as Homework
2. Inverse Functions: We’re Teaching It All Wrong!
3. More Linear Algebra, Please
4. Believing in Mathematics
5. Wanted, Mathematicians for an Important but Difficult Task

## ANNUAL SURVEY FACTS & FIGURES (2015)



- 29,400 individuals earned bachelor’s degrees in mathematical sciences
- 5,100 individuals earned master’s degrees in mathematical sciences
- 1,900 individuals earned PhDs in mathematical sciences
- Most recent postdoctoral recipient employment: 60% in academia; 40% in business, industry, or government; 41% undergraduate math majors; 37% full-time graduate students; and 31% of all PhDs in US were female



**Ben Braun**, University of Kentucky, Lexington

**AMS member since 2002**

"Serving as the editor-in-chief of the AMS blog *On Teaching and Learning Mathematics* is an excellent opportunity for me to serve the AMS mission of supporting mathematics education at all levels. By showcasing high-quality work by mathematics faculty, professional societies, and funding agencies, our editorial board is able to inspire all members of the mathematics community to strive for excellence in their teaching. As a recent member of the AMS Committee on Education, I have been able to participate in collaborative action with other professional societies, making a difference beyond my institution alone. I believe that the AMS serves a vital role in supporting a broad spectrum of activities in the mathematical community, from supporting research and education to engaging with federal policymakers and beyond, and I am proud to have been a part of fulfilling the mission of the AMS."



**Douglas Mupasiri**, University of Northern Iowa

**AMS member since 1987**

"I have been serving on the AMS Committee on Education (COE) since February 1, 2014, as a member for the first two years and as chair since February 1, 2016. What a great three and a half years it has been! On the COE I got to meet and work with very smart colleagues who are committed and truly devoted to the cause of mathematics. I have been struck by the breadth and scope of the activities of the COE. In my time there, the COE has invited speakers and panelists from areas spanning virtually all STEM disciplines and government agencies to address mathematicians on topics relevant to (K–12), undergraduate, graduate education, and the profession. Speakers have discussed such topics as active learning approaches, characteristics of successful programs in college calculus, diversity initiatives, lower-division pathways, new instructor training programs, funding opportunities for graduate students, and the Common Vision project. I have found my term on the COE to be a great learning experience."

## MATHEMATICAL MOMENTS



- 129 topics on mathematics in science, nature, technology, and human culture
- 68 podcasts with mathematicians
- 313 translated into 14 other languages

## AMS COMMITTEES & VOLUNTEERS



- 535 volunteers serve on 125 committees including:
- 30 selection committees for prizes, awards, and travel grants
- 22 journal and book editorial committees
- 14 speaker selection committees



## Fostering Awareness and Appreciation of Mathematics

The AMS plays a leading role in advocating for mathematics to policymakers and in promoting awareness of the importance and beauty of mathematics to the mathematical community, general public, and media.

The AMS Washington DC Office organized the **Congressional Briefing** by Mac Hyman, Tulane University, “How Mathematical Models Predict Emerging Epidemics” and the **Coalition for National Science Funding (CNSF) Exhibition** presentation by Konstantina Trivisa, University of Maryland, “On the Movement of Cells, Birds, Fish and Other Agents: Mathematical Modeling in Biology and Ecology,” which Congressman Jerry McNerney visited.

At JMM 2016 the **AMS Committee on the Profession** hosted the panel “Promoting Mathematics to Policymakers and the Public.” The AMS Public Awareness Office, with volunteer Susan Wildstrom, hosted a curve-stitching activity enjoyed by students and families at the **USA Science & Engineering Festival** in Washington DC.

**2016 Mathematical Moments**—free downloadable posters and podcasts with researchers—were “Farming Better,” “Maintaining a Balance” (tipping points in complex systems), “Explaining Rainbows,” “Making Art Work” (on perspective), “Trimming Taxiing Time (on shortening airport runway queues), “Dis-playing the *Game of Thrones*” (on network theory applied to the popular book and TV series), and “Thwarting Poachers.”

**AMS Posters** inform and inspire. Among the free posters mailed in 2016 to high school math teachers was a poster of John Urschel (the pro football player who is also a graduate student in mathematics at MIT) on #WhyILovemath and another, “Summer Math Camps and Programs for Students.”

**Math in the Media** is the central source for news of mathematics and mathematicians covered by news media, general science journals, radio, and TV. Tony Phillips, Stony Brook University; past AMS-AAAS Media Fellows Claudia Clark and Rachel Crowell; and Public Awareness Office staff contributed their takes and summaries on pieces in many sources, such as *Quanta Magazine*, *Forbes*, *Science*, *Nature*, PBS, NPR, *The New York Times*, *The Atlantic*, *Scientific American*, *Discover*, and science newswires.

Erik Demaine, MIT, gave the 2016 **Einstein Public Lecture**, “Fun with Fonts: Mathematical Typography,” at the Sectional Meeting at the University of Georgia, and Jennifer Chayes, Microsoft Research, gave the **MAA-AMS-SIAM Gerald and Judith Porter Public Lecture**, “Network Science: From the Online World to Cancer Genomics,” at JMM 2016.

## TOP MATH STORIES IN THE MEDIA 2016



- *Hidden Figures*, the book & film
- *The Man Who Knew Infinity*, film about Ramanujan
- 2016 IMO, US team wins again
- Andrew Hacker and “Who Needs Math?”
- Andrew Wiles receives the 2016 Abel Prize
- Eugenia Cheng on math and baking
- Nobel Prize in Physics, topology explained
- Weapons of Math Destruction
- Sphere-packing problem
- Pi Day



## AMS Strategic Planning

Each AMS division was heavily involved in AMS Strategic Planning Initiatives to be implemented in 2017 and beyond. A working group engaged a design firm to define our “brand essence,” which will be key to enhancing the visibility of the Society and its many endeavors. The AMS portfolio of programs, publications, and services was inventoried and is being assessed, toward the goals of improving user experiences, enhancing the productivity of mathematicians, and increasing our international reach.

**Konstantina Trivisa**, University of Maryland, College Park  
**AMS member since 1992**

“The CNSF exhibition is an annual event on Capitol Hill for the members of Congress to understand the results, impact, and benefits of NSF-supported research. I was invited by the American Mathematical Society to present my research and a poster. It was an exciting event by all accounts. I met a number of members of Congress. One of them, Congressman Jerry McNerney, became excited about my research on the mathematical models for cancer and requested a one-minute lecture on my research that he could present on the floor of the Congress. Now more than ever it is essential to inform our members of Congress on the importance of supporting fundamental research and make our voices heard at any opportunity.”



**Alexander Diaz-Lopez**, Villanova University  
**AMS member since 2011**

“I believe mathematics is for everyone and can be enjoyed by everyone. Thus, my goal as a *Notices* editor is to create awareness, especially among graduate students, that mathematics comes in many flavors and appears in many different areas. In a newly created section, we publish interviews with mathematicians in academia and industry. They share their experience, advice, failures, and successes. The interviews are in addition to our main task, which is to publish articles about the latest developments in mathematics. We aim for the articles to be as accessible as possible to the mathematics community.”

## PUBLIC LECTURES & PRESENTATIONS TO DATE



- 20 AMS presentations at Coalition for National Science Funding Exhibitions
- 20 AMS Congressional Briefings
- 8 AMS-MAA-SIAM Gerald and Judith Porter Lectures
- 11 AMS Einstein Public Lectures in Mathematics
- 90 Josiah Willard Gibbs Lectures

## AMS STAFF



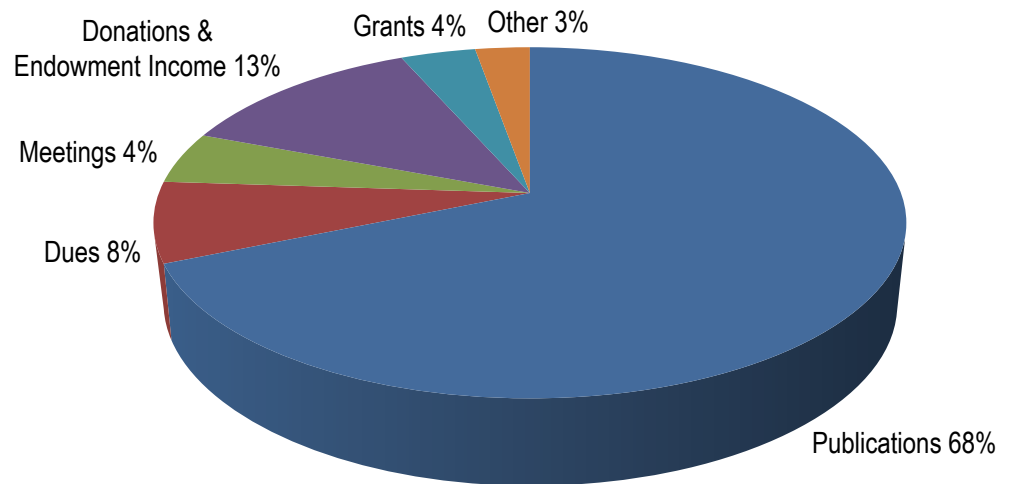
- 117 in Providence, RI (headquarters)
- 10 in Pawtucket, RI (Printshop & Distribution Center)
- 2 in Washington DC (Government Relations & Programs)
- 82 in Ann Arbor, MI (MathSciNet, Mathematics Reviews Editorial Office)



## Financial Report

The American Mathematical Society enjoyed a financially successful year in 2016 with operating revenues of approximately \$1.6 million. In part, this was due to a 15% increase in book sales revenues associated with the introduction of new electronic backlist series and sales of some popular titles. In addition, unrestricted contributions were another major contributor to revenues in 2016 due to receipt of some major bequests. Finally, spendable income from endowment and board-designated funds contributed \$3.3 million to the Society's operating revenues.

### 2016 Operating Revenues of \$31,815,649



Operating expenses increased between 2015 and 2016 by about \$1,350,000 or about 5%. The largest expense increase was related to wages and benefits, which were up by 5%. The personnel expenses were mostly affected by modest salary raises, increases in benefit costs, and the addition of some staff that were added to departments to support the strategic plan implementation.

The full financial statements will be available in the October 2017 issue of the *Notices*. The following are the Society's 2016 Balance Sheets and Statement of Activities.



## AMERICAN MATHEMATICAL SOCIETY

*Balance Sheets*

	<i>December 31,</i>	
	<i>2016</i>	<i>2015</i>
<b>Assets</b>		
Cash	\$ 1,131,379	\$ 1,018,324
Certificates of deposit	660,000	710,000
Short-term investments	14,600,782	14,454,171
Accounts and contributions receivable, net of allowances of \$284,980 and \$258,480 in 2016 and 2015, respectively	553,200	1,150,407
Deferred prepublication costs	594,587	568,295
Completed books	1,360,939	1,291,914
Prepaid expenses and deposits	1,632,127	2,038,938
Land, buildings and equipment, net	5,086,655	4,379,852
Long-term investments	<u>140,116,402</u>	<u>127,034,621</u>
<b>Total assets</b>	<b>\$ <u>165,736,071</u></b>	<b>\$ <u>152,646,522</u></b>
<b>Liabilities and Net Assets</b>		
Liabilities:		
Accounts payable and accrued expenses	\$ 4,190,837	\$ 3,748,485
Accrued study leave pay	736,298	698,508
Deferred revenue	12,926,112	12,613,091
Postretirement benefit obligation	<u>7,646,939</u>	<u>7,321,355</u>
<b>Total liabilities</b>	<b><u>25,500,186</u></b>	<b><u>24,381,439</u></b>
Net assets:		
Unrestricted:		
Undesignated		120,955
Designated	<u>122,198,789</u>	<u>111,782,413</u>
	122,198,789	111,903,368
Temporarily restricted	11,667,789	10,665,546
Permanently restricted	<u>6,369,307</u>	<u>5,696,169</u>
<b>Total net assets</b>	<b><u>140,235,885</u></b>	<b><u>128,265,083</u></b>
<b>Total liabilities and net assets</b>	<b>\$ <u>165,736,071</u></b>	<b>\$ <u>152,646,522</u></b>



## AMERICAN MATHEMATICAL SOCIETY

*Statements of Activities*

	<i>Years Ended December 31,</i>	
	<b>2016</b>	<b>2015</b>
Changes in unrestricted net assets:		
Operating revenue, including net assets released from restrictions:		
Mathematical Reviews	\$ 11,877,717	\$ 11,521,492
Journals	5,171,245	5,206,573
Books	4,134,261	3,494,449
Dues, services, and outreach	3,378,939	3,613,378
Investment returns appropriated for spending	2,537,418	2,074,382
Other publications-related revenue	590,102	605,080
Grants, prizes, and awards	1,473,577	1,753,884
Meetings	1,438,623	1,321,735
Unrestricted contributions	797,693	1,813,725
Short-term investment income	394,068	64
Other	22,006	68,216
	<hr/>	<hr/>
<b>Total operating revenue</b>	<b>31,815,649</b>	<b>31,472,978</b>
	<hr/>	<hr/>
Operating expenses:		
Mathematical Reviews	8,189,326	7,696,350
Journals	1,488,098	1,515,997
Books	3,629,068	3,442,729
Publications indirect	1,373,895	1,216,181
Customer services, warehousing, and distribution	1,615,466	1,625,478
Other publications-related expense	188,623	141,647
Membership, services, and outreach	4,804,083	4,533,481
Grants, prizes, and awards	1,405,161	2,138,628
Meetings	1,344,479	1,268,016
Governance	642,822	569,277
Member and professional services indirect	1,054,673	891,823
General and administrative	4,418,657	3,915,508
Other	75,888	100,011
	<hr/>	<hr/>
<b>Total operating expenses</b>	<b>30,230,239</b>	<b>29,055,126</b>
	<hr/>	<hr/>
<b>Excess of operating revenue over operating expenses</b>	<b>1,585,410</b>	<b>2,417,852</b>
Nonoperating revenues and expenses:		
Investment returns less investment returns available for spending	8,512,302	(1,872,939)
Other changes in unrestricted net assets	197,709	187,255
	<hr/>	<hr/>
Change in unrestricted net assets	10,295,421	732,168
Change in temporarily restricted net assets	1,002,243	(384,934)
Change in permanently restricted net assets	673,138	158,041
	<hr/>	<hr/>
<b>Change in net assets</b>	<b>11,970,802</b>	<b>505,275</b>
Net assets, beginning of year	128,265,083	127,759,808
	<hr/>	<hr/>
<b>Net assets, end of year</b>	<b>\$ 140,235,885</b>	<b>\$ 128,265,083</b>
	<hr/>	<hr/>





Dear AMS Members and Friends,

Thank you for your gifts to the American Mathematical Society in 2016.

In my first year as Executive Director I've been fortunate to observe your generosity firsthand, and I am moved by your dedication to and vision for the Society.

I particularly want to thank long-time donors to the AMS. More than one thousand people who donated to the Society last year have done so for more than fifteen years; of those, over six hundred people have given for twenty years or more. The Society thanks you for your steady support of mathematics. Many good things stand on the longevity of your giving.

Other exciting notes from 2016 include Thomas C. Hales endowing the new Bertrand Russell Prize of the AMS. Stuart A. Geman, Donald E. McClure, and David B. Mumford created the Ulf Grenander Prize in Stochastic Theory and Modeling. The Society became the home of the Mark Green and Kathryn Kert Green Fund for Inclusion and Diversity, which is most welcome in these times. We also received generous gifts from several donors who chose to remain anonymous. Their philanthropy is providing essential support to graduate students, early-career mathematicians, and to the mathematics community at large. On behalf of the many beneficiaries, I thank you.

The Society is grateful for bequests received from the estates of Roy L. Adler, Isidore Fleischer, Bettie C. and James F. Hannan, Franklin P. Peterson, and Barbara and Paul T. Schaefer. Thank you to everyone who is making a provision in their will, no matter the size, to the AMS. Your commitment to mathematics will continue for years to come.

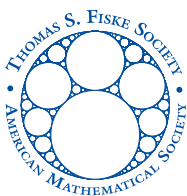
Please enjoy reading this report. Our Society benefits from each of you acknowledged herein.

Catherine A. Roberts  
*Executive Director*



**Catherine A. Roberts**  
AMS Executive Director

Photo courtesy of Marc Studios.



## Thomas S. Fiske Society

Members of the Thomas S. Fiske Society uphold the future of mathematics by including the American Mathematical Society in their estate plans. The following Fiske Society members have created a personal legacy in support of the mathematical sciences by naming the AMS in their will, retirement plan, or other gift-planning vehicle.

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## In Tribute

The following friends, colleagues, and family members are all being specially honored by a donation in support of mathematics. These gifts are a tangible homage to those who have passed on or a way to honor people still living. The AMS is pleased to list the commemorated individuals and the 2016 donors who made these gifts possible.

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The people and businesses listed below made gifts to the AMS between January 1 and December 31, 2016. On behalf of all those who benefit from this generosity, the AMS extends its thanks to everyone who chose to support mathematics through the AMS during the past year. Donors who have contributed \$1,000 or more in one year are further acknowledged on the AMS Donor Wall of Honor at the Society's headquarters. We are pleased to recognize each donor in the following listing.

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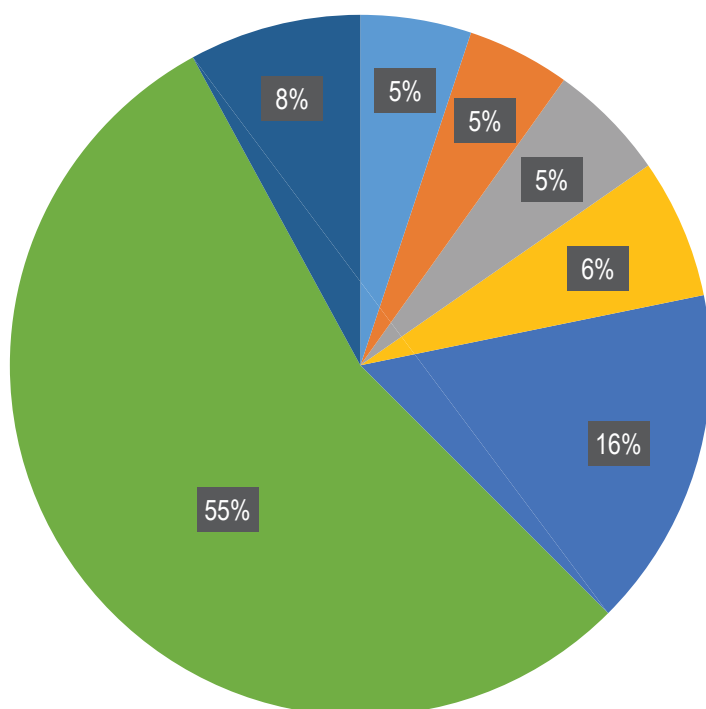


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