



Robert L. Bryant AMS President, 2015–2017

Dear Colleagues,

Hello and welcome to the American Mathematical Society's 2015 Annual Report.

Here you'll read some of the facts and figures that describe the Society's past year, and meet some of the people involved in our many programs and activities.

The report is quite positive, highlighting the accomplishments of many mathematicians and the continued success of the Society's activities, so I expect that you will find it pleasant and encouraging reading, but I would be remiss not to call your attention to one recent event that, while celebratory, was more solemn: The retirement of AMS Executive Director Donald E. McClure. Don has led our day-to-day operations for more than seven years—instituting some important new initiatives such as open-access journals and the Mathematics Research Communities program for early-career mathematicians—and has been involved with the Society for his entire career. We will sorely miss Don's presence, his expertise, and his buoyant spirit. I hope you'll join me in wishing him the best in his retirement.

Our new Executive Director, Catherine A. Roberts, has also been very involved with the Society, serving on several AMS committees over a ten-year span. We are pleased to welcome her in her new role as Executive Director, and I look forward to working with her and with the AMS staff under her leadership as we take up the challenges of our new strategic plan. Her research and teaching record, administrative experience, and service to the community guarantee that the Society's successful record will continue.

I invite you to read on and learn about the achievements in the past year of the Society that Catherine will lead.

Sincerely,

Robert L. Bryant

AMS President, 2015-2017





Maintaining Excellence in Mathematical Sciences Research

Advancing the Mathematics Profession

Supporting Mathematics Education at All Levels

Fostering Awareness and Appreciation of Mathematics



The American Mathematical Society was founded in 1888 to further the interests of mathematics research and scholarship, and serves the national and international community through its meetings, publications, advocacy, and other programs.

The Society's offices in Providence, Ann Arbor, and Washington, DC, employ 210 people. There are over 28,000 individual members and 560 institutions worldwide that benefit from membership in the Society.

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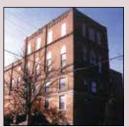
#### **Facts & Figures**

- 450 mathematicians are volunteer leaders and committee members
- 19,872 volunteers review publications for Mathematical Reviews
- 210 staff members in RI, DC, and MI, provide day-to-day membership, program, and publishing services
- 15 mathematicians at various stages of their careers volunteer to write for the Feature Column and AMS Blogs
- 14 mathematicians serve as Editor and Associate Editors of *Notices of the AMS*
- 4 Associate Secretaries organize the scientific program for 8 AMS Sectional Meetings each year
- The over 28,000 AMS members worldwide are actively involved in the Society in some way



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## REPORT OF THE AMS



Donald E. McClure AMS Executive Director, 2009–2016

2015 was again a successful year for the American Mathematical Society (AMS). The Society remains financially healthy, very active in supporting the mathematics community, and responsive in addressing professional and public advocacy issues.

#### **Strategic Planning**

The year marked the completion of the Society's Strategic Plan for 2016–2020, with implementation beginning in 2016. The plan was formulated using three areas of focus. The first was on the AMS as a membership organization (membership, professional services, and the Washington Office); the second was the AMS as publisher of journals, books, and the AMS website; the third focus was on MathSciNet\*.

As part of planning for membership, professional services, and Washington activities the AMS engaged the services of a consulting firm McKinley Advisors. Together the firm and the AMS developed a survey to assess and quantify the perceptions, needs, and expectations of AMS members and the mathematics community to inform the strategic planning process.

### **AMS Members Guiding the Direction**

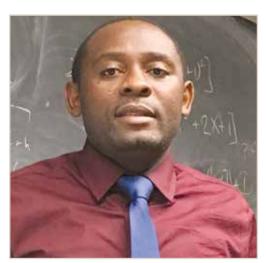
Member feedback from both the survey and conversations with AMS leadership and staff conveyed that the most important objectives going forward are: to support and encourage young mathematicians and individuals pursuing undergraduate/graduate degrees in mathematics; to increase advocacy efforts on key issues, such as support for basic research; to promote awareness and appreciation of the importance of mathematics among the public, and to create programs that promote and foster inclusion of underrepresented populations in the mathematics profession.

Six initiatives were articulated to develop the three areas of focus and to reflect the stated priorities: **Diversity and Inclusion**—including the formation of the new Department of Education and Diversity; **Advocacy**, **Awareness & Visibility**; **Membership Development**; **Development and Promotion** of a coherent portfolio of programs, meetings, publications, and professional services; **Future Directions** for Mathematical Reviews/ MathSciNet\*—including strategies to broaden access;



Rebecca Garcia, Associate Professor, Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX. AMS member since 2002.

"Being an active member of the AMS through volunteer service on committees is an opportunity for one to give back to their community by using the skills and talents the community helped instill in them. It is the ultimate expression of gratitude. My involvement as a woman and Pacific Islander also helps bring awareness and further action on the issues in broadening participation in the mathematical sciences. Having been selected to serve on one of the five policy committees of the AMS, I find that this is not only a privilege, but a duty to use this opportunity to promote diversity in our community."



**Brice Nguelifack**, Assistant Professor, Department of Mathematics, United States Naval Academy, Annapolis, MD. **AMS member since 2010.** 

"The MRC summer conference at the Snowbird Resort in Utah was probably my favorite summer conference. Being in my early career as a faculty member, MRC gave me the opportunity to build a solid and lasting network with great people across different disciplines with the same research interest. The MRC conference was just that one bridge I needed to cross to use my rich background in mathematics and statistics and to take my research to a new level. Even though the MRC was a bit of a learning experience for me, it was definitely an enjoyable experience, especially the wonderful aspect of working with a group of participants from different backgrounds who shared ideas. As one of the participants once told me, 'Get a group of really good people in a really good place and magic happens!' For me, magic happened at MRC last summer!"



and **Publishing**—including the development of tools for research and teaching, and strategies for publishing more mathematics content.

As successful programs continue and new programs are launched, members of the mathematics community can expect to learn about, participate in, and benefit from them.

#### **Serving the Community**

The AMS excels at providing opportunities for mathematicians at all ages and levels to meet, learn, collaborate, publish, and advance.

#### **Meetings & Conferences**

Mathematicians continue to value attending meetings and conferences in person. While AMS staff handle the complicated logistics, AMS Secretaries and organizers of special sessions and panels manage the scientific programs of AMS meetings. Special thanks go to AMS Secretary Carla D. Savage and Associate Secretaries Georgia Benkart, Brian D. Boe, Michel L. Lapidus and Steven H. Weintraub, as well as the many organizers, speakers, and panelists who contribute their time, leadership, and expertise to these endeavors.

The 2015 Joint Mathematics Meetings (JMM) in San Antonio drew 5,962 to attend the program of invited talks, special sessions, panels; present work; meet colleagues, mentors and new friends; attend the annual prize ceremony; and see a wide range of exhibitors. Attendance at JMM has remained at approximately 6,000 or above since 2011.

In 2015, the AMS in partnership with other organizations sponsored two special meetings. The Joint International Meeting held in Porto, Portugal, was co-sponsored with the European Mathematical Society and Sociedade Portugesa de Matemática. It was a great success with over 1,100 participants from the US, Portugal, and many other European countries. The sixth Summer Research Institute on Algebraic Geometry held at the University of Utah, Salt Lake City, was sponsored by the AMS in collaboration with the Clay Mathematics Institute, with partial funding provided by the National Science Foundation (NSF), the National Security Agency, and the Simons Foundation. The meeting continued a tradition of decennial summer institutes started in 1964 and drew in 742 participants.

The Mathematics Research Communities (MRC) program continues to be highly successful. The 2015 MRC summer conferences at the Snowbird Resort in Utah drew 120 early-career mathematicians. These conferences, largely funded by the NSF, are part of this AMS program that also includes special sessions at JMMs, and a continuation



Rachel Grotheer, Assistant Professor, Mathematics and Computer Science, Goucher College, Towson, MD. AMS member since 2013.

"Attending the Joint Mathematics Meetings in my last year of graduate school was an especially valuable experience for me as I began the transition from student to faculty member. Not only was I originally planning on interviewing at JMM (but thankfully, accepted a job offer just before the meetings and so did not have to), but I got to re-establish and cultivate relationships with other mathematicians I had met at various conferences and workshops throughout the year, and had the opportunity to present both my research and teaching experiences. I also had the opportunity to connect with my new colleagues and attend talks focused on teaching practices that would help me in my first year as a faculty member. Living so far from the JMM site, the AMS Travel Grant was essential to ensuring I could attend the meetings and I believe attending JMM was one of the most valuable experiences for me last year as I began the transition to faculty."



of the connections and collaborations funded substantially by endowment income. Through 2015, approximately 900 participants have taken part in the MRC program.

Approximately 300 graduate students received travel grants from the AMS to attend JMM and AMS Sectional Meetings to further their work, meet experts and potential mentors and collaborators. Approximately 100 students received support to attend JMM 2015, where they were treated to a brunch where they could meet other students and members of the AMS leadership. The student travel grants are supported by one generous anonymous donor.

#### **Employment and Career Services**

Members and the broader mathematical community also look to the AMS to provide crucial services—employment services, career information, and other opportunities for advancement and involvement.

MathJobs.Org and the Employment Center at JMM remain valued by both employers and job seekers, especially for academic employment. By 2015, MathJobs was serving over 8,000 job applicants and 650 employers who accept job applications through the system.

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

#### **AMS Publishing**

Mathematical Reviews (MR) celebrated its 75th year of publishing comprehensive coverage of new research in the mathematical sciences. In 2015, 119,000 items were added to the MR database, including 89,000 reviews. The growth of mathematics literature presents a significant challenge to MathSciNet® in its mission to cover all new research contributions in mathematics and, at the same time, continue to improve the capabilities of MathSciNet® for discovery of new research results. The strategic planning for MathSciNet® addresses this challenge through changes in the structure and management of the database.

The AMS Publishing Division continues to make major strides in broadening the availability of AMS eBooks. In 2015, the Society launched availability of additional backfile collections for libraries, including the CBMS Issues in Mathematics Education, the CBMS Regional Conference Series in Mathematics, and Mathematical World series as well as selected out-of-series volumes.



**Dr. William J. Browning**, Founder and President of Applied Mathematics, Inc., Gales Ferry, CT. **AMS member since 1970**.

"My first experience with the JMM Employment Center was, as a student, at the 1974 annual meeting in San Francisco. There was no Internet, email or cell phones then; communication between employer and applicant was by hand-written notes left in message boxes or slipped under hotel room doors. Although my expectation was an academic position, I accepted a position with a small company of applied mathematicians working on US Navy applications.

My company, Applied Mathematics, Inc., has used the JMM Employment Center each year since 1980 to meet with applicants interested in or curious about a position in industry. Most JMM applicants are looking for an academic position; however, through the JMM Employment Center we have been fortunate to hire excellent mathematicians who have thrived using their talents to work on applied problems in industry."



**Seick Kim**, Professor, Department of Mathematics, Yonsei University, Seoul, Republic of Korea. **AMS member since 1977.** 

"I use MathSciNet a lot. It is an indispensable tool for my research. I found some recent features of MathSciNet very useful. I can use MathSciNet on my iPhone and iPad by mobile pairing when I am out of my office. I also like MathSciNet displaying my name in Korean characters, my native language. I think it will help Korean researchers to identify me more easily."



In 2015, the book program published 81 new titles, of which we are very proud. Two sets of AMS books are especially noteworthy: a new series launched in collaboration with the Institute for Advanced Study / IAS / Park City Mathematics Institute, IAS/PCMI-The Teacher Program Series, presents materials from the IAS/PCMI Secondary School Teachers Program for high school mathematics teachers. The other is a 5-volume set, A *Comprehensive Course in Analysis* by Barry Simon. This can serve as a comprehensive graduate-level text and a definitive reference for almost all areas of classical analysis.

Really Big Numbers, by Richard Evan Schwartz, won the first Mathical: Books for Kids from Tots to Teens book prize in two categories: Grades 3–5 and Grades 6–8. The prize, presented by the Mathematical Sciences Research Institute (MSRI) and the Children's Book Council (CBC) as part of the 2015 National Mathematics Festival, recognizes the most inspiring math-related fiction and nonfiction books that inspire children of all ages.

A behind-the-scenes, high priority mission of the AMS is to continue the advancement of technology for the electronic distribution of mathematical content. The AMS partners with about twenty other organizations in the development of MathJax™, which has had a revolutionary impact in enabling the high-quality web rendering of mathematics in all standard browsers. In 2015, the key developers of MathJax were funded by the Alfred P. Sloan Foundation to develop a software infrastructure for handicap accessibility of mathematics on the web, such as text-to-speech processing. The same enhancement of the infrastructure provides a novel way of rendering mathematics on small screens by re-arranging and collapsing equations in a meaningful way.

There were major developments for AMS research journals as well. While we continue to deliver the highest quality publications at the lowest possible cost, the Society strives to publish more of the high-quality research content that is being created. In 2015, the AMS made substantial increases to the pages published in its primary research journals, eliminating backlogs of papers and delivering the content at lower cost to the subscribers.

In 2015, the AMS introduced Early View as a new AMS member benefit. As soon as an article is accepted by one of the primary research journals, the author's final submitted manuscript is posted on ams.org and made freely available for members to view. Authors are also encouraged to post their final manuscript at arXiv.org. All of these initiatives are designed to achieve rapid and broad dissemination of new research.



**Darryl Yong**, Professor, Department of Mathematics, Harvey Mudd College, Claremont, CA. **AMS member since 1995**.

"My co-authors and I are excited that AMS is publishing this book series and that it might be a helpful resource to mathematics education faculty, practicing mathematics teachers, and home-schooled families. The work that we do at the Park City Mathematics Institute is unique, and we've tried to find a way to take the experience that we provide to mathematics teachers during the three-week program and distill it into a form that is usable by others. I personally find this work very gratifying because I was not trained in these areas of mathematics and the process of putting these materials together allows me to experience mathematics anew with wonder and joy."



## Advocacy, Partnerships for Mathematics and Science, and Public Awareness

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

The Washington Office leads or oversees a number of activities in advocacy for the mathematical sciences and public policy in support of science. The office hosts an annual Congressional Briefing, leads the Coalition for National Science Funding (CNSF), serves as liaison for the AMS policy committees on Education and Science Policy, and recruits and selects the AMS Congressional Fellow and the AMS Mass Media Fellow.

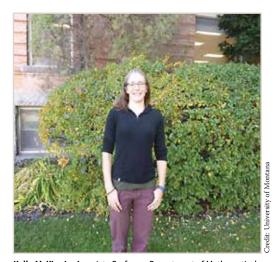
CNSF, an alliance of over 140 professional societies, research institutes, higher education institutions, and businesses, works to increase the national investment in the NSF's research and education programs. The coalition organizes a reception and exhibition each year for members of Congress and Congressional staffers. The 2015 exhibition drew 275 people, including ten members of Congress. Katharine Gurski (Howard University) represented the AMS and presented her work on "Mathematical Algorithms for Space Weather, Tsunamis, and Plasma Physics."

In April 2015, AMS Committee on Science Policy members visited the offices of thirty Senators and Representatives to have conversations about the state of science funding and to ask for support of budget increases proposed for NSF in FY 2016. Such "visits to the hill" are important; for example, at the time of the 2015 visits, the NSF was being subjected to unprecedented scrutiny by the House Committee on Science, Space, and Technology.

The AMS Public Awareness Office (PAO) provides leadership and support in communicating mathematics news, the importance of mathematics, and Society activities to the mathematical community, general public and select constituencies. In April 2015, the AMS participated in the inaugural National Mathematics Festival, with the PAO lending a lot of support to promote the festival as well as sponsoring the *Who Wants to Be a Mathematician* game.

#### **Current Issues**

While the AMS continues to manage and improve the programs and services that members and the mathematical community need, one issue that continues to affect the AMS in its role as a scholarly publisher is the steady growth of research literature in the mathematical sciences. As noted, the number of new research articles published



Kelly McKinnie, Associate Professor, Department of Mathematical Sciences, University of Montana, Missoula. AMS member since 2000.
"I visited my congressional representative on Capitol Hill as a member of the AMS Committee on Science Policy in March 2015. It was a very valuable experience in which I met other mathematicians interested in science."

able experience in which I met other mathematicians interested in science policy, learned in greater detail how the mathematical sciences are funded in the US and met with the congressional representative from my district (the whole state of Montana) and from other districts as well. One of the most valuable things that came from the visit was holding a meeting with my department when I returned, giving them information on the state of funding from Congress for the mathematical sciences."



annually in journals covered by Mathematical Reviews (MR) continues to increase. The AMS is finding ways to accommodate this growth through increasing the number of high-quality papers published in our primary research journals and by the possible introduction of new AMS journals.

Another issue is new policies requiring public access to research sponsored by government funding. There are several dimensions to the discussion, including (1) what form the mandates for public access will take and (2) how business models for publishing scientific work will evolve; e.g., Open Access vs. subscription models for journals. In accordance with its mission statement, the AMS continues to promote open, rapid, and affordable communications of research.

The third major issue concerning to the AMS is that support of basic research has become highly politicized. We continue to collaborate with other organizations in advocacy for the support of basic research.

#### **Moving Forward**

As the AMS implements its strategic plans we are grateful to our members, leadership, dedicated volunteers and staff for their commitment, involvement, and financial support.



**Susan Schwartz Wildstrom**, Mathematics Teacher, Walt Whitman High School in Bethesda, MD. **AMS member since 2000.** 

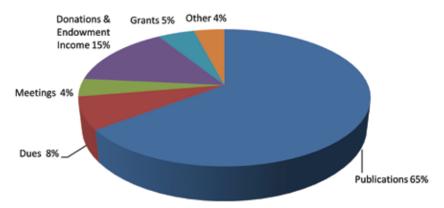
"I am a high school mathematics teacher and a member of the AMS. I have become an active supporter since AMS has become more involved in pre-college activities. These initiatives include financial support for many excellent "math camps" through the Epsilon Fund; Who Wants to Be a Mathematician contests at JMM and other events; and the AMS booth at the USA Science and Engineering Festival, which for the past couple of fairs has featured a popular curve-stitching activity that I designed and managed for them."



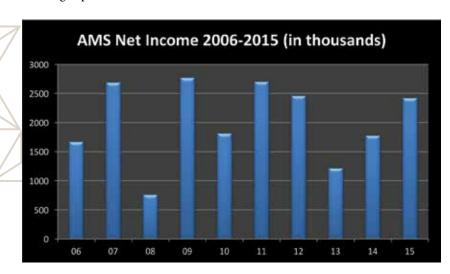
#### **Financial Review**

The American Mathematical Society enjoyed a financially healthy year in 2015. This was due primarily to two generous bequests from the estates of Isidore Fleischer, and Franklin and Marilyn Peterson, totaling about \$1.7 million. In 2015, the net operating income of the Society was approximately \$2.4 million, as compared to a net income of \$1.8 million in 2014. Without the bequests, net operating income would have been about \$700,000. The Society has experienced a positive net operating income for more than 25 years.

#### 2015 Operating Revenues of \$31,472,978



Operating expenses increased between 2014 and 2015 by about \$900,000 or about 3%. The largest expense increase was related to wages and benefits, which were up by 3%. The personnel expenses were mostly affected by modest salary raises and the addition of a small number of staff that were strategically added to departments. The American Mathematical Society has excellent budgetary controls over spending, ensuring that expenditures remain at appropriate levels. Many expenditures, such as equipment, postage expenses, or building expenses, decreased or remained about the same.





The following are the Society's Balance Sheets, Statement of Activities, and a listing of the Society's endowment and other funds:

#### AMERICAN MATHEMATICAL SOCIETY

#### **Balance Sheets**

|  |      | December 31, |    |             |  |  |
|--|------|--------------|----|-------------|--|--|
|  |      | 2015         |    | 2014        |  |  |
| Assets   |      |              |    |             |  |  |
| Cash and short-term investments                  | \$   | 16,182,495   | \$ | 15,955,399  |  |  |
| Accounts receivable, inventory, prepaid expenses |      | 4,890,935    |    | 3,991,457   |  |  |
| Land, buildings and equipment, net               |      | 4,379,852    |    | 4,449,507   |  |  |
| Long-term investments                            |      | 127,034,621  |    | 126,818,565 |  |  |
| Total assets                                     | \$ _ | 152,487,903  | \$ | 151,214,928 |  |  |
| Liabilities and Net Assets                       |      |              |    |             |  |  |
| Liabilities:                                     |      |              |    |             |  |  |
| Accounts payable and accrued expenses            | \$   | 4,288,374    | \$ | 4,595,550   |  |  |
| Deferred revenue                                 |      | 12,613,091   |    | 11,451,092  |  |  |
| Post-retirement benefit obligation               |      | 7,321,355    |    | 7,408,478   |  |  |
| Total liabilities                                | _    | 24,222,820   | _  | 23,455,120  |  |  |
| Net assets:                                      |      |              |    |             |  |  |
| Unrestricted:                                    |      |              |    |             |  |  |
| Undesignated                                     |      | 120,955      |    | -           |  |  |
| Designated                                       |      | 111,782,413  |    | 111,171,200 |  |  |
|  |      | 111,903,368  |    | 111,171,200 |  |  |
| Temporarily restricted                           |      | 10,665,546   |    | 11,050,480  |  |  |
| Permanently restricted                           |      | 5,696,169    | _  | 5,538,128   |  |  |
| Total net assets                                 | _    | 128,265,083  |    | 127,759,808 |  |  |
| Total liabilities and net assets                 | \$   | 152,487,903  | \$ | 151,214,928 |  |  |



#### AMERICAN MATHEMATICAL SOCIETY

#### Statements of Activities

|  |    | Years Ended Dec<br>2015 | ecember 31,<br>2014 |  |
|--|----|-------------------------|---------------------|--|
| Changes in unrestricted net assets:                                    |    |                         |                     |  |
| Operating revenue, including net assets released from restrictions:    |    |                         |                     |  |
| Mathematical Reviews   | \$ | 11,521,492 \$           | 11,344,158          |  |
| Journals   |    | 5,206,573               | 5,306,814           |  |
| Books  |    | 3,494,449               | 3,687,814           |  |
| Dues, services, and outreach   |    | 5,427,103               | 3,893,767           |  |
| Investment returns appropriated for spending                           |    | 2,074,382               | 1,799,700           |  |
| Other publications-related revenue                                     |    | 605,080                 | 631,772             |  |
| Grants, prizes, and awards   |    | 1,753,884               | 1,592,929           |  |
| Meetings   |    | 1,321,735               | 1,189,114           |  |
| Short-term investment income   |    | 64                      | 381,349             |  |
| Other  |    | 68,216                  | 77,375              |  |
| Total operating revenue  |    | 31,472,978              | 29,904,792          |  |
| Operating expenses:  |    |                         |                     |  |
| Mathematical Reviews   |    | 7,696,350               | 7,596,576           |  |
| Journals   |    | 1,515,997               | 1,501,487           |  |
| Books  |    | 3,442,729               | 3,236,476           |  |
| Publications, indirect   |    | 1,216,181               | 1,418,636           |  |
| Customer services, warehousing, and distribution                       |    | 1,625,478               | 1,751,542           |  |
| Other publications-related expenses                                    |    | 141,647                 | 157,416             |  |
| Membership, services, and outreach                                     |    | 4,533,481               | 4,054,224           |  |
| Grants, prizes, and awards   |    | 2,138,628               | 1,871,237           |  |
| Meetings   |    | 1,268,016               | 1,154,390           |  |
| Governance   |    | 569,277                 | 506,583             |  |
| Member and professional services, indirect                             |    | 891,823                 | 775,200             |  |
| General and administrative   |    | 3,915,508               | 3,989,842           |  |
| Other  |    | 100,011                 | 118,363             |  |
| Total operating expenses   |    | 29,055,126              | 28,131,972          |  |
| Excess of operating revenue over operating expenses                    |    | 2,417,852               | 1,772,820           |  |
| Other changes in unrestricted net assets, including investment returns |    | (1,685,684)             | 6,943,112           |  |
| Change in unrestricted net assets                                      | _  | 732,168                 | 8,715,932           |  |
| Change in temporarily restricted net assets                            | _  | (384,934)               | 1,081,835           |  |
| Change in permanently restricted net assets                            | _  | 158,041                 | 272,137             |  |
| Change in net assets   |    | 505,275                 | 10,069,904          |  |
| Net assets, beginning of year  |    | 127,759,808             | 117,689,904         |  |
| Net assets, end or year  | \$ | 128,265,083 \$          | 127,759,808         |  |



### AMERICAN MATHEMATICAL SOCIETY—Statements of Invested Funds As of December 31, 2015, and 2014

| Income Restricted Endowment: Endowment Funds: | Original Gift<br>at 12/31/15 | 12/31/15<br>Total Value | 12/31/14<br>Total Value |
|---|------------------------------|-------------------------|-------------------------|
| Research Prize Funds                          |                              |                         |                         |
| Steele  | 145,511                      | 762,236                 | 784,425                 |
| Birkhoff                                      | 50,132                       | 95,695                  | 98,481                  |
| Veblen  | 58,599                       | 84,688                  | 87,153                  |
| Wiener  | 29,773                       | 50,748                  | 52,225                  |
| Bôcher  | 32,557                       | 51,554                  | 53,055                  |
| Conant  | 9,477                        | 50,800                  | 52,278                  |
| Cole Number Theory                            | 52,063                       | 71,773                  | 73,593                  |
| Cole Algebra                                  | 51,713                       | 71,452                  | 73,262                  |
| Satter  | 49,720                       | 83,585                  | 86,018                  |
| Chevalley Fund                                | 115,000                      | 116,108                 | 119,488                 |
| Doob Prize                                    | 80,000                       | 98,274                  | 64,631                  |
| Robbins Prize                                 | 41,250                       | 58,443                  | 60,145                  |
| Eisenbud Prize                                | 40,000                       | 54,734                  | 56,328                  |
| Other Prize and Award Funds                   |                              |                         |                         |
| Morgan Prize                                  | 25,000                       | 55,282                  | 56,892                  |
| Albert Whiteman Prize                         | 95,417                       | 133,902                 | 135,999                 |
| Arnold Ross Lectures                          | 103,579                      | 131,363                 | 116,603                 |
| Trjitzinsky                                   | 196,030                      | 612,435                 | 630,264                 |
| C.V. Newsom                                   | 100,000                      | 284,994                 | 293,290                 |
| Centennial                                    | 61,183                       | 152,019                 | 156,444                 |
| Menger  | 97,250                       | 138,464                 | 142,495                 |
| Ky Fan (China)                                | 366,757                      | 489,545                 | 503,796                 |
| Impact Award                                  | 22,110                       | 28,446                  | 29,274                  |
| Epsilon                                       | 2,076,671                    | 2,803,104               | 2,780,670               |
| Einstein Lecture                              | 100,000                      | 141,720                 | 145,846                 |
| Exemplary Program                             | 100,000                      | 140,853                 | 144,954                 |
| Mathematical Art                              | 20.000                       | 28.171                  | 28,991                  |
| Subtotal (Income Restricted)                  | 4,119,793                    | 6,790,388               | 6,826,600               |
| Endowment                                     | 111,475                      | 946,521                 | 973,253                 |
| Morita  | 100,000                      | 167,967                 | 173,081                 |
| Henderson                                     | 548,223                      | 5,008,701               | 5,161,172               |
| Schoenfeld/Mitchell                           | 573,447                      | 949,627                 | 978,535                 |
| Laha  | 189,309                      | 319,039                 | 328,751                 |
| Ritt  | 51,347                       | 298,411                 | 307,495                 |
| Moore   | 2.575                        | 28.129                  | 28,986                  |
| Subtotal (Income Unrestricted)                | 1,576,376                    | 7,718,395               | 7,951,273               |
| <b>Total Endowment Funds</b>                  | <u>5,696,169</u>             | 14,508,783              | 14,777,873              |
| Quasi-Endowment Funds (Board-Designated)      | :                            |                         |                         |
| Journal Archive Fund                          |                              | 1,657,495               | 1,607,169               |
| Young Scholars                                |                              | 843,852                 | 868,952                 |
| Economic Stabilization Fund (ESF)             |                              | 30,131,910              | 29,407,917              |
| Endowment Income Stabilization Fund (EISF)    |                              | 482,844                 | 490,634                 |
| Backfile Digitization Fund                    |                              | 111,389                 | 111,389                 |
| Strategic Initiative Fund                     |                              | 250,000                 |                         |
| Kathleen Baxter Memorial Fund                 |                              | 263,859                 | 263,625                 |
| Operations Support Fund (OSF)                 |                              | 78,041,064              | 78,407,114              |
| Total Quasi-Endowment Funds                   |                              | 111,782,413             | 111,156,800             |
| Undesignated                                  |                              |                         | 110,985                 |
| <b>Beal Prize</b> (Temporarily Restricted)    | 1,000,000                    | 1,236,302               | 1,263,562               |
| <b>Total Invested Funds</b>                   | <u>\$6,696,169</u>           | <u>\$127,527,498</u>    | <u>\$127,309,220</u>    |

#### The following prizes and awards were given at the 2016 Joint Mathematics Meetings.



#### Leroy P. Steele Prize for Lifetime Achievement Barry Simon

for his impact on the education and research of a generation of mathematical scientists through his significant research achievements, his highly influential books, and his

mentoring of graduate students and postdocs.







Leroy P. Steele Prize for Mathematical Exposition David A. Cox, John B. Little, and Donal O'Shea

for their book *Ideals, Varieties, and Algorithms* which has made algebraic geometry and computational commutative algebra accessible not just to mathematicians but to students and researchers in many fields.



#### Leroy P. Steele Prize for Seminal Contribution to Research Andrew Majda

for two papers published in the *Memoirs of the AMS* in 1983: "The existence of multidimensional shock fronts," Vol 43, Number 281, and "The stability of multidimensional shock fronts," Vol 41, Number 275.



## Chevalley Prize in Lie Theory Geordie Willliamson

for his work on the representation theory of Lie algebras and algebraic groups.



## Levi L. Conant Prize Daniel H. Rothman

for his paper "Earth's Carbon Cycle: A Mathematical Perspective," *Bulletin of the AMS* (2015). He gives the reader an understanding of the Earth's carbon cycle by applying classical ideas from applied mathematics to the data at hand.



## Award for Distinguished Public Service Aloysius "Loek" G. Helminck

for "his dynamic and public-spirited leadership of the Department of Mathematics at North Carolina State University, and for his work, both in his department and at the national level, to increase the diversity of the mathematical research community."



## JPBM Communications Award for Public Outreach Museum of Mathematics

for its innovative approach to presenting fundamental mathematical ideas to the public in a variety of creative, informative, and entertaining exhibits and events that engage audiences with

the beauty and utility of mathematics in daily life.



## JPBM Communications Award for Expository and Popular Books Simon Singh

for his fascinating books on mathematical topics, including Fermat's Enigma, The Code Book, and The Simpsons and Their Mathematical Secrets, which have opened up the beauty of

mathematics and mathematical thinking to broad audiences with clear and charming prose.









E. H. Moore Research Article Prize Caucher Birkar, Paolo Cascini, Christopher Hacon, and James McKernan

for their article "Existence of Minimal Models for Varieties of Log General Type," *Journal of the AMS* (2010).



AMS-MAA-SIAM Frank and Brennie Morgan Prize for Outstanding Research by an Undergraduate Student Amol Aggarwal

for his outstanding research in combinatorics.







David P. Robbins Prize Manuel Kauers, Christoph Koutschan, and Doron Zeilberger

for their paper, "Proof of George Andrews's and

David Robbins's q-TSPP conjecture," Proceedings of the National Academy of Sciences (USA) (2011).





#### Oswald Veblen Prize in Geometry Fernando Codá Marques and André Neves

for "their remarkable work on variational problems in differential geometry [including] the proof of the Willmore conjecture." This work

resolved a longstanding question about the nature of surfaces.



## Norbert Wiener Prize in Applied Mathematics Constantine M. Dafermos

for his foundational work in partial differential equations and continuum physics.





#### Award for Impact on the Teaching and Learning of Mathematics—2015 W. James "Jim" Lewis, Jr.

for creating an atmosphere of commitment to teaching that established the department as a national model among mathematics departments in research universities where both teaching and research are highly valued, integrated,



#### Award for an Exemplary Program or Achievement in a Mathematics Department—2015

#### The Department of Mathematics at Iowa State University

for truly exemplary diversity efforts at all levels of the Department of Mathematics at Iowa State University.



#### Mathematics Programs That Make a Difference Award—2015 Center for Undergraduate Research in Mathematics (CURM) at Brigham Young University

for their "significant efforts to encourage students from underrepresented groups to continue in the study of mathematics."



#### Pacific Coast Undergraduate Mathematics Conference (PCUMC)

for their "significant efforts to encourage students from underrepresented groups to continue in the study of mathematics."



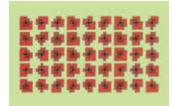
#### AMS Epsilon Fund 2015 Awards

AMS chose 22 summer math programs to receive Epsilon grants in 2015:

Camp Euclid; Canada/USA Mathcamp; Governor's Institutes of Vermont: Mathematical Sciences; Hampshire College Summer Studies in Mathematics: Joaquin Bustoz Math-Science Honors Program: KSU Mathcircle Summer Enrichment Program; MathILy; MathPath; Mathworks Honors Summer Math Camp; Michigan Math and Science Scholars Summer Program; New York Math Cirlce High School Summer Program; PROMYS; PROTaSM (Puerto Rico Opportunities for Talented Students in Mathematics); Research Science Institute; Ross Mathematics Program;

Stanford University Mathematics Camp (SUMaC); STEM for Scholars; Summer Institute for Mathematics at UW; Summer Mathematics Program for High School Students; Summer Program in Mathematical Problem Solving; TexPREP; Williams College Math Camp (WCMC); Young Scholars Program

for giving students a chance to see aspects of mathematics that they may not see in school and to share their enthusiasm for mathematics with one another.



Mathematical Art Exhibition Award **—2016** Karl Kattchee for "45 Poppies," a digital print for best photograph, painting, or print.



Mathematical Art Exhibition Award **—2016 George Hart** for "Sword Dancing," a work made of wood and cable ties

for best textile, sculpture, or other medium.



Mathematical Art Exhibition Award **—2016** Robert Orndorff for "OSU Triptych No. 2," a paper and acrylic triptych

for honorable mention.



Donald E. McClure AMS Executive Director, 2009–2016

Dear AMS Members and Friends,

Thank you for the many ways in which you support and advance mathematics. This Contributors Report lets me especially thank everyone who made a charitable donation to mathematics through the American Mathematical Society in 2015. Your gifts make many good things happen, for many people, in our vast community.

Over 700 students attended accelerated summer math programs supported by your gifts to the Epsilon Fund for Young Scholars. Thousands of scholars and students throughout the world had access to Mathematical Reviews through your gifts to MathSciNet® for Developing Countries. A great many scholars at the beginning of their careers benefitted from your donations to programs such as travel grants, JMM Child Care Grants, and Mathematics Research Communities. Your gifts to the Area of Greatest Need and to the AMS Endowment, which generates important spendable income, supported the costs of vital programs such as sectional meetings, the JMM Employment Center, short courses, public lectures, and more. It is difficult to precisely count the number of people who benefit from our donors' generosity. Even prizes, awards, and fellowships that are given directly to individual mathematicians serve to raise the public profile of the importance of mathematical sciences, something that benefits us all.

Generosity was also expressed through several thoughtful tribute gifts, as well as estate gifts from Richard M. Cohn, Isidore Fleischer, Trevor James McMinn, and Franklin P. Peterson. Their dedication to mathematics will benefit the mathematics community now and for years to come.

The future of the AMS and how it serves mathematics is bright. Thank you for your charitable giving that helps it to be so.

Donald E. McClure *Executive Director* 



### **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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#### **Tribute Gifts**

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 2015 donors who made these gifts possible.

#### Gifts were made in memory of the following individuals:

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#### Gifts were made in honor of the following individuals:

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## Gifts were made to the campaign for the Arnold Ross Lectures Endowed Fund in memory of Arnold Ross and Paul J. Sally Jr. by the following individuals:

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The people and businesses listed below made gifts to the AMS between January 1-December 31, 2015. 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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> --- Karen Vogtmann, Chair, AMS Board of Trustees

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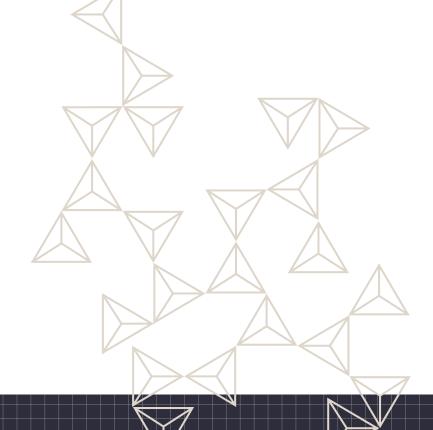
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