

AMERICAN MATHEMATICAL SOCIETY

2014 ANNUAL REPORT

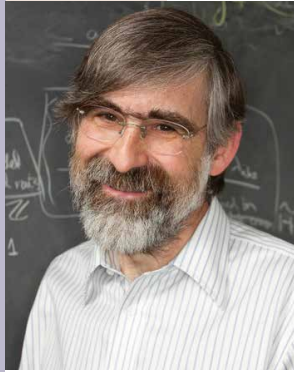


Photo by Bryce Vickmark

David A. Vogan, Jr.
Massachusetts Institute of Technology
AMS President, 2013–2014

Dear Colleagues,

Looking forward while paying attention to the past is a healthy practice both for an individual and for a scientific society. We are optimistic about the future for the American Mathematical Society and the mathematics community, in part because of the good work done by the Society, its members, and the mathematics community in 2014. These pages offer a glimpse into some of that good work.

To provide that glimpse, we've adopted a new approach to a portion of the 2014 Annual Report. Here you'll read profiles of eight individuals who volunteer and help the AMS set policy, participate in our many programs, or make generous contributions. These people and others like them, through their energetic work and enthusiastic generosity, make it possible for us to look forward with confidence.

This year is the 75th anniversary of Mathematical Reviews, exemplifying the leadership the Society has shown in mathematics publishing for years as well as the transition we are making to new formats. Mathematical Reviews began as long rows of orange volumes in academic libraries everywhere (whose weight was perhaps largely responsible for the outstanding upper body strength of AMS members over fifty). Now it has become the digital MathSciNet, with data on more than three million publications (and responsible in its turn for the powerful index fingers of our younger colleagues).

I have thoroughly enjoyed my two-year term as president of the AMS, which has now come to a close. I look forward to continued work with our new president, Robert L. Bryant, and with the Society. We hope you enjoy this review of 2014, which provides a peek into the past year and what it promises for the future.

Sincerely,

David A. Vogan, Jr.

AMS President, 2013-2014



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 206 people. There are over 28,000 individual members and 580 institutions worldwide that benefit from membership in the Society.

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Facts & Figures

- 450 mathematicians are volunteer leaders and committee members
- 16,900 volunteers review publications for Math Reviews
- 200 staff members in RI, DC and MI provide day-to-day membership, program and publishing services
- 13 mathematicians at various stages of their careers volunteer to write for the Feature Column and AMS Blogs
- 19 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
- Over 28,000 AMS members worldwide are actively involved in the Society in some way



Photo by John Abramowski, Brown University

Donald E. McClure
AMS Executive Director

In 2014 the AMS continued to serve its members, the global mathematics community, students and the general public by furthering their lifelong learning, scholarship and careers, and by extending the appreciation and understanding of mathematical sciences.

Of course the Society would not exist without its members, volunteers and staff who maintain, enhance, publicize and use the many programs and services that fulfill our mission.

Furthering Lifelong Learning and Achievement

AMS Publications

Members and the global mathematics community expect high-quality, peer-reviewed publications—and the Society delivers MathSciNet and highly respected research journals and books.

In 2014 Mathematical Reviews executive editor Graeme Fairweather retired, and Edward Dunne, previously a senior editor in the AMS Book Program, moved into that position. Ed led a celebration at the 2015 Joint Mathematics Meetings to kick off the 75th anniversary of Mathematical Reviews (MR). He reintroduced several past executive editors—Gerald Janusz, Donald Babbitt, Jane Kister, Kevin Clancy, and Graeme Fairweather—who oversaw the explosive growth of MR and played key roles in the transition from print to the online database, now known by all as MathSciNet. With over 2.1 million items including 1.8 million reviews in the database, MathSciNet is a critical tool for research, and the AMS is committed to making it available worldwide at special subscription rates for institutions in developing countries and through innovative consortium pricing.

The AMS launched two Gold Open Access (OA) journals in 2014: *Proceedings of the AMS, Series B*, and *Transactions of the AMS, Series B*. The open access journals provide the mathematics community with a Gold OA option within the family of AMS journals. The AMS OA model is innovative, ensuring editorial decision-making is entirely independent of business concerns. Once a paper is accepted for publication, an author may choose to publish the paper in OA form through payment of reasonable article processing charges (APC). Articles in *Conformal Geometry and Dynamics* and *Representation Theory* are also Gold OA, with no article processing charges applicable. The AMS encourages authors of papers in all of its journals to post their final peer-reviewed manuscript on their personal web page,



Photo by Arthur Muchela

Wandera Ogana, Professor, University of Nairobi, Kenya. AMS member since 2005.

“MathSciNet has been useful to a number of students in locating publications in a particular subject, journal or by a particular author. In more recent years there has been increasing use of MathSciNet to determine the impact of staff publications, through the number of citations.

In addition to laying a strong background in pure mathematics, which is vital to understanding all other mathematics areas, the University of Nairobi’s School of Mathematics hopes to become a centre of excellence for the study and research in areas of mathematics which address problems in, for example, energy, health, finance, communication, technology, water resources, and help to contribute to development and alleviate poverty.”



on their institution's noncommercial repository, and on arXiv.org. This serves the need for researchers to make their work available, pre-publication.

Behind the scenes, AMS and MathJax Consortium staff developed the infrastructure for creating digital-ready eJournal and eBook output from LaTeX source. The challenging work of rendering mathematics on the web (for both authors and readers) continues, as does the unsung work of the many mathematicians who serve on editorial boards. I—speaking on behalf of the mathematical community—thank them all.

Two AMS books published in 2014 received noteworthy awards: *Hilbert's Fifth Problem and Related Topics* by Terence Tao received a prestigious American Publishers Award for Professional and Scholarly Excellence (PROSE Award) for the best book published in mathematics in 2014. *Really Big Numbers*, by Richard E. Schwartz, the Society's first book for children ("of all ages"), received an inaugural Mathical: Books for Kids from Tots to Teens award for books published in 2014. These books are among the broad array of monographs, texts, and collected works across many fields of mathematics published by the AMS and its co-publication partners. The AMS also undertook the scanning or rekeying of several renowned book series in 2014 for release as digital books in 2015.

Meetings & Conferences

Mathematicians continue to attend meetings and conferences in person—to learn, advance their careers, meet colleagues, and recognize recipients of AMS prizes and awards. 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 Savage and Associate Secretaries Georgia Benkart, Brian D. Boe, Michel L. Lapidus and Steven H. Weintraub and the many organizers, speakers and panelists who contribute their time, leadership and expertise.

The Joint Mathematics Meetings, Sectional Meetings and the Mathematical Research Communities draw positive feedback and suggestions, providing incentive for us to continue offering this important component of professional interaction and development.

James H. Simons, Chairman, Simons Foundation, gave the Einstein Public Lecture, "Mathematics, Common Sense, and Good Luck" at the sectional meeting at San Francisco State University in the fall. About 300 people filled the room to hear him talk about his career in mathematics, finance, and philanthropy. Some of the audience members were recipients of AMS-Simons Travel Grants, supported

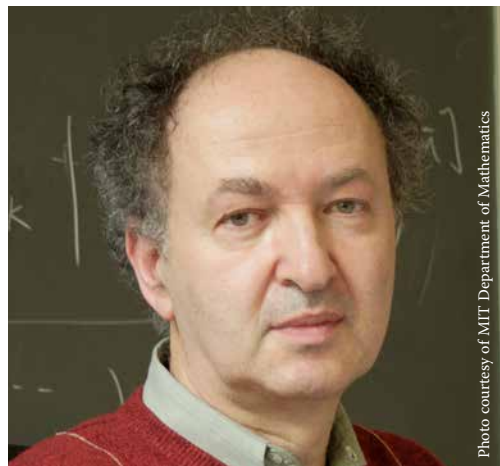


Photo courtesy of MIT Department of Mathematics

George Lusztig, Abdun-Nur Professor of Mathematics, Massachusetts Institute of Technology. He established the AMS Chevalley Prize in Lie Theory, the first awarding of which will be in January 2016. AMS member since 1978.

"I have a particular affinity (and great admiration) for Chevalley since his work on semisimple groups over algebraically closed fields and finite fields provided a foundation for my own work. In addition Chevalley has a connection to AMS (as a winner of the Cole Prize) which makes it even more appropriate to have an AMS prize honoring him."



Photo by Bonny Fleming

Christine Berkesch Zamaere, Assistant Professor, School of Mathematics, University of Minnesota, Minneapolis. AMS member since 2005.

"AMS sectional meetings provide a great opportunity to share and learn mathematics. The smaller size of special sessions facilitates networking among experts, which is especially useful for early career mathematicians such as myself. I am grateful for the travel grant I received to attend one of these meetings. Besides giving a talk, I was able to further my research program thanks to results discussed in my special session."



by the AMS and the Simons Foundation, and they came up and spoke with him afterwards. It was nice to see the philanthropist and his beneficiaries connect in person and so warmly.

The Mathematics Research Communities (MRCs), held for the seventh year at Snowbird Resort in Utah, drew 120 early-career mathematicians for the intense week-long sessions in their specialized area of research, guided by senior researchers (week one: Michael Gekhtman, Mark Gross, Gregg Musiker, David Speyer, Gordana Todorov; week two: Carina Curto, Jesus A. De Loera, Christine Heitsch, Michael Orrison, Francis Edward Su; week three: Siu-Hung Ng, Eric C. Rowell, Zhenghan Wang, and Aaron Clausen, David Kempe, Mason A. Porter). By the end of 2014, the MRCs had served over 800 early-career mathematicians.

"The MRC is an extremely unique conference. It is the only conference/workshop I am aware of where the attendees get the chance to work on a specific research topic with new collaborators, and with the specific intent of solving open problems. Even more amazing: that this goal was reached and all teams emerged with new results." What could be more gratifying—to the participant, fellow collaborators, session organizers, and AMS—than this response to the experience? We can all hope that one day this person will publish, teach, and be a mentor, organizer and member of the AMS community to pass along this enthusiasm to the generation that follows.

Furthering Careers

Members and the broader mathematical community also look to the AMS to provide crucial services—employment services, career information, and other opportunities—to advance and get involved.

MathJobs.org and the Employment Center at the Joint Mathematics Meetings remain valued by both employers and job seekers, especially for academic employment. By the end of 2014 MathJobs was serving over 8000 job applicants and 650 employers, including some international employers who began accepting job applications through the system in July 2014. 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 Ph.D. recipients along with their employment status. These 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.

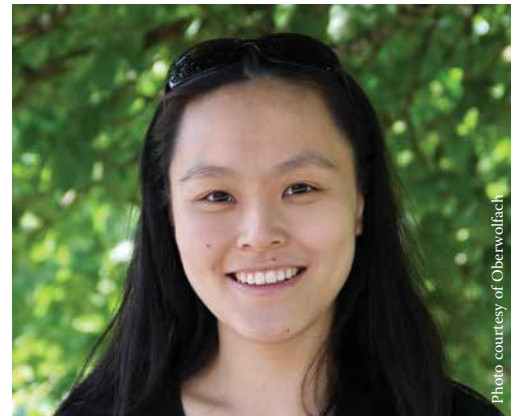


Photo courtesy of Oberwolfach

Wei Ho, Assistant Professor, Department of Mathematics, University of Michigan, Ann Arbor. AMS member since 2004.

"As a young postdoc, I was fortunate enough to participate in one of the early MRC programs. At that stage in my career, it was incredibly useful to be exposed to — and more importantly, to become a part of — serious research that was tangentially related to my previous work. Because the program had gathered so many other early-career mathematicians in related fields, we were all able to learn from one another as well. I think most of the participants are still in touch, and many have collaborated since the program!

Because of my wonderful experience as a participant, I returned as an organizer several years later. It was very rewarding to work with the students and postdocs in small groups, and the organizers are delighted that quite a few of the groups still have ongoing collaborations."



Monika Kiss, Associate Professor of Mathematics, Saint Leo University, Saint Leo, Florida. AMS member since 2014.

"MathJobs, the online employment tool, is a great resource to identify potential candidates prior to the meeting. It was very easy to navigate and also convenient to schedule the interviews. The Employment Center has been a wonderful program that we at Saint Leo University used the last few years. The physical space provided at the conference sites was well organized and spacious. The AMS staff was always incredibly professional, friendly and very helpful."



In 2014 the AMS created “Awards, Fellowships & Other Opportunities” on ams.org where users can search, browse, share and post calls for fellowship and grant applications, prize and award nominations, and meeting and workshop proposals in the mathematical sciences. We hope that organizations worldwide will post their opportunities and that individuals will use this centralized source of calls to advance their work and careers.

The “AMS for Students” page, also released in 2014, offers news and information for high school and undergraduate students in mathematics. Students can explore math programs outside the classroom, find out about graduate school, competitions, where math is used in careers, and more. Over the course of the year, about 2,000 people attended Who Wants to Be a Mathematician games (and more saw the national game via webcast) to cheer on some of the nation’s most talented high school math students. I’m pleased to report that as of 2014 year-end there were 30 AMS Graduate Student Chapters, and the number continues to grow. AMS programs are encouraging the “pipeline” of students pursuing mathematics.

Extending the Appreciation and Understanding of the Mathematical Sciences

Mathematicians want to feel represented and mathematics to be respected. The AMS Washington DC Office and Public Awareness Office, as well as many in the profession, are key in 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.

Over 280 attendees and eight Members of Congress came to the 2014 Coalition for National Science Funding (CNSF) Exhibition & Reception on Capitol Hill, where Robert Ghrist presented his work on “Topological Sensor Networks.” Almost every day department faculty at high schools, colleges and universities request free posters to inspire their students: “Women Doing Mathematics,” “What Can I Do with a Math Degree?,” “Math Research, It’s Knot What You Think,” among others, and Mathematical Moments, the series of over 110 posters on the role mathematics plays in science, nature, technology and human culture.



Philip T. Gressman, Professor, Department of Mathematics, University of Pennsylvania, Philadelphia. AMS member since 2001.

“It was an honor to represent the AMS at the Coalition for National Science Funding (CNSF) exhibition. I learned a tremendous amount about the vital work that the AMS is doing in Washington DC and had a chance to speak with nearly a dozen different representatives and their staff people about the importance of federal mathematics research funding. For the most part, I found them to be very receptive of that message and excited to hear about the progress being made. I came away with a renewed sense of the importance of communication between the mathematics community at large and our representatives in Washington, and I would encourage everyone to seek out ways to promote such communication.”



Mathematicians and others the world over visit ams.org and follow AMS on social media to see and share information. The Visual Insight Blog by John Baez and the Mathematical Imagery site managed by the AMS Public Awareness Office present the beauty of mathematics in ways that many can better “see,” and the Blog on Math Blogs by Evelyn Lamb and Anna Haensch covers conversations about mathematics, math and the arts, education, applied mathematics, and other popular or offbeat topics that can enlighten everyone. “Hee Oh to Receive 2015 AMS Satter Prize,” a news release; “How to Make a 3D Print,” by David Austin; “Why Do We Expect Lots of Twin Primes?,” by Bill Casselman; “Magical Mathematics - A Tribute to Martin Gardner,” by Joe Malkevitch; and Tony Phillips’ take on Math in the Media are examples of some much-visited pages on ams.org in 2014.

Several mathematicians volunteered to be interviewed for podcast on ams.org: Edward Witten talked about math and physics; Colin Adams talked about knot theory; Meredith Greer talked about the math involved in designing roller coasters. Other mathematicians wrote op-eds to reach a wide audience: “Don’t Teach Math, Coach It,” by Jordan Ellenberg, *The New York Times*, July 24, 2014; “Math can-do: Column,” by Kathy Liu Sun, *USA Today*, July 9, 2014; “Mathematics is the engine that creates,” by Pamela Clute, *The Desert Sun*, June 20, 2014; and “Have patience on imperfect Common Core,” by John Ewing, *USA Today*, May 21, 2014.

Many mathematicians serve on AMS policy committees or otherwise try to “make a difference” for the good of the broader mathematics community—by advocating for funding and better math education, promoting awareness of mathematics, encouraging diversity in the profession, being a committed member of the AMS. The mathematical community benefits from the labors of those too many to mention here who serve on the committees on Science Policy, Publications, Education, Meetings & Conferences, and Profession, lead the annual Department Chairs Workshop, guide Congressional visits, and write for the On Teaching and Learning Mathematics or eMentoring Network in the Mathematical Sciences blogs, for instance.

Again, we are grateful for the contributions of these engaged mathematicians who are such good communicators. How fruitless and dull it would be for all if these and others in the community didn’t participate, inform and advocate in so many ways.



Kristin Lauter, Senior Leadership Team, XCG Xtreme Computing Group Lab, Microsoft Research. AMS member since 1993.

“I chose to serve on the AMS Council and on the Committee on Science Policy in order to represent the interests of professional mathematicians. The Committee on Science Policy meets in Washington annually to argue on behalf of Congressional support and approval for funding of research in basic science. Interfacing with government and funding agencies is important work and enables mathematicians to understand and connect with the base of support for our research. I have found it rewarding to represent the AMS in meetings with Congressional offices and to articulate the need for support for basic research in mathematics and the importance of mathematics as a fundamental scientific discipline.”



Issues and Outlook

The AMS remains robust in all ways: we are financially healthy, flexible and forward-looking, while addressing the ongoing challenges and opportunities of publishing trends, mathematics education at all levels, what it means to be a member of a professional society, and advocacy for federal funding of research. In 2014 we accomplished much more than can fit in this report. We initiated strategic planning for Mathematical Reviews and for the Society as a membership organization. We organized the standing-room-only Conversation on Nonacademic Employment session at the Joint Mathematics Meetings. We underwent preparations for expanded digital publishing. We hired T. Christine Stevens as Associate Executive Director of the Meetings & Professional Services Division and Eriko Hironaka as Acquisitions Editor in the AMS Book Program, and Robert L. Bryant, Duke University, moved into the role of AMS President-elect.

Through its members, volunteers, leaders, staff, donors and partner organizations, the AMS is poised to continue furthering the careers of individual mathematicians and furthering the understanding of mathematics and its importance.



Juan Meza, Dean, School of Natural Sciences, University of California, Merced. AMS member since 1991.

"I am always delighted to serve on joint committees. Not only do I learn about the fascinating research going on in other fields, but I'm learning it from some of the leading experts in the field who also happen to be committee members.

Some of the most exciting research these days is at the interface between different fields. And not just between math and other scientific disciplines, but also between different areas of math. Working with the committees one can see just how vibrant mathematics has become in the last 10-20 years, with applications throughout the entire spectrum of science. And while researchers in many of the physical sciences have long recognized the utility of mathematics, it now plays a major role in many other areas such as biology, social sciences (through big data), and even the humanities. My only regret is not having enough time to delve more deeply into all of these areas.

What is definitely clear from working on these committees is that mathematics is and will remain an exciting and wonderful opportunity for our next generation of mathematicians."

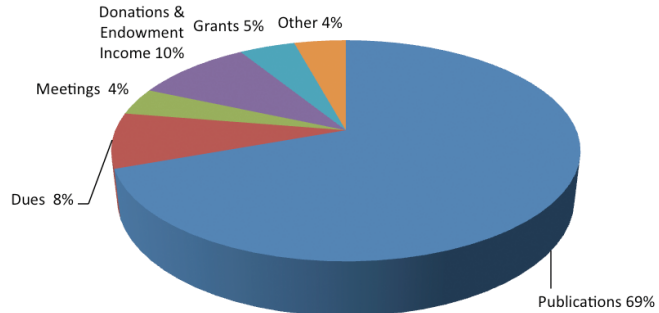


Financial Review

The American Mathematical Society had a positive net operating margin of approximately \$1.8 million in 2014. With these operating results, the Society has experienced a positive net income for more than two decades. The Society's unrestricted net assets increased by \$8.7 million primarily due to a 10.2% return on the long-term investments.

In 2014, the Society's revenues increased by \$1.6 million over 2013 revenues. The largest revenue increase is attributable to publishing operations, which experienced a 4% gain in revenues over 2013. This gain was due to modest subscription price increases and increased sales of electronic book backlists and subscriptions. An increase in unrestricted contributions, grant revenues, and operating portfolio investment income also contributed significantly to the bottom line. The pie chart below shows the breakdown of the Society's revenues by percentage.

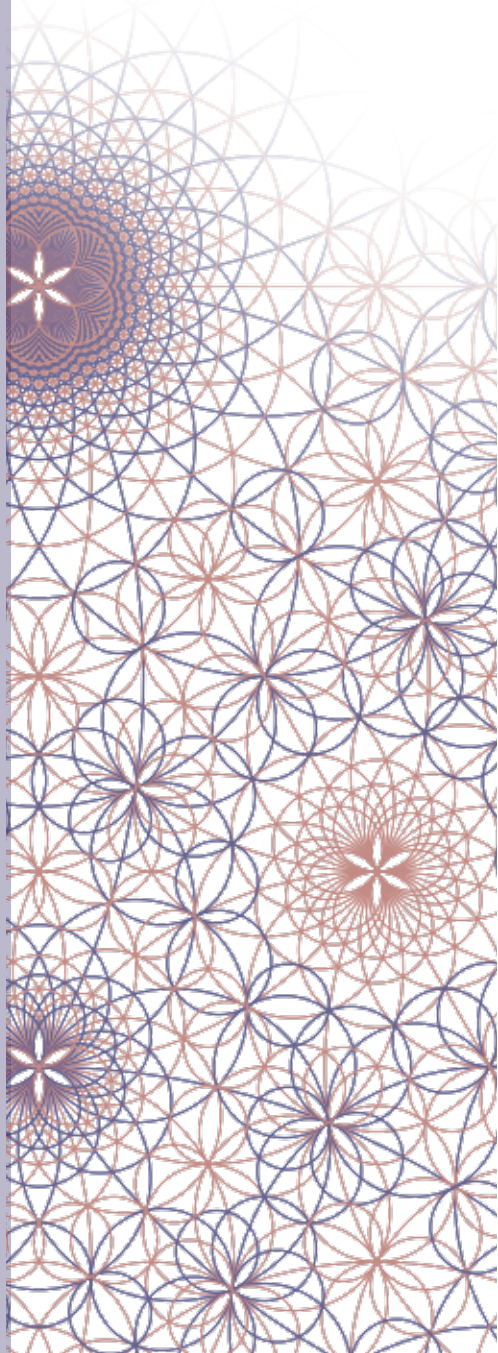
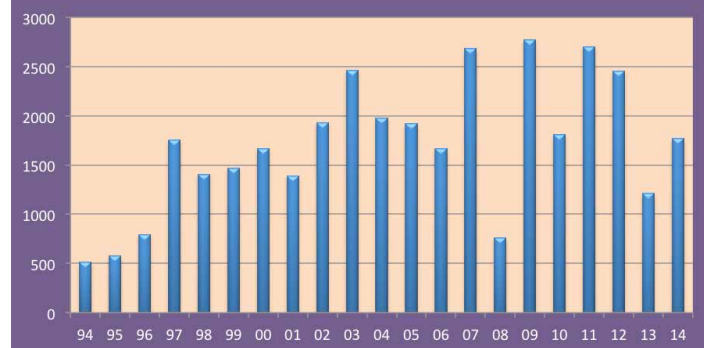
2014 Operating Revenues of \$29,904,792



Expenses increased between 2013 and 2014 by about \$1,000,000 or 3.8%. The American Mathematical Society has excellent budgetary controls over spending, ensuring that expenditures remain at appropriate levels.

The largest expense increase was related to personnel costs, 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 contracted services expense increased by about \$325,000. Much of these additional costs was related to strategic initiatives designed to improve the Society's publishing technology and digitize the book backlist of the publishing program.

AMS Net Income 1994 - 2014 (in 000's)





AMERICAN MATHEMATICAL SOCIETY

Balance Sheets

	<i>December 31,</i>	
	<i>2014</i>	<i>2013</i>
Assets		
Cash and short term investments	\$ 15,955,399	\$ 16,108,273
Accounts receivable, inventory, prepaid expenses	3,991,457	3,729,701
Land, buildings and equipment, net	4,449,507	5,127,278
Long-term investments	126,818,565	115,196,217
Total assets	\$ <u>151,214,928</u>	\$ <u>140,161,469</u>
Liabilities and Net Assets		
Liabilities:		
Accounts payable and accrued expenses	\$ 4,595,550	\$ 4,691,504
Deferred revenue	11,451,092	11,671,731
Postretirement benefit obligation	7,408,478	6,108,330
Total liabilities	<u>23,455,120</u>	<u>22,471,565</u>
Net assets:		
Unrestricted:		
Undesignated	-	1,448,012
Designated	111,171,200	101,007,256
	<u>111,171,200</u>	<u>102,455,268</u>
Temporarily restricted	11,050,480	9,968,645
Permanently restricted	5,538,128	5,265,991
Total net assets	<u>127,759,808</u>	<u>117,689,904</u>
Total liabilities and net assets	\$ <u>151,214,928</u>	\$ <u>140,161,469</u>

AMERICAN MATHEMATICAL SOCIETY
Statements of Activities

	<i>Years Ended December 31,</i>	
	<i>2014</i>	<i>2013</i>
Changes in unrestricted net assets:		
Operating revenue, including net assets released from restrictions:		
Mathematical Reviews	\$ 11,344,158	\$ 10,868,077
Journals	5,306,814	5,062,348
Books	3,687,814	3,623,632
Dues, services, and outreach	3,893,767	3,839,958
Investment returns appropriated for spending	1,799,700	1,459,970
Other publications-related revenue	631,772	636,881
Grants, prizes and awards	1,592,929	1,233,313
Meetings	1,189,114	1,253,181
Short-term investment income	381,349	262,762
Other	77,375	67,791
Total operating revenue	29,904,792	28,307,913
Operating expenses:		
Mathematical Reviews	7,596,576	7,075,759
Journals	1,501,487	1,415,180
Books	3,236,476	3,220,413
Publications indirect	1,418,636	1,168,463
Customer services, warehousing and distribution	1,751,542	1,567,644
Other publications-related expense	157,416	194,186
Membership, services and outreach	4,054,224	4,016,715
Grants, prizes and awards	1,871,237	1,504,294
Meetings	1,154,390	1,254,622
Governance	506,583	553,239
Member and professional services indirect	775,200	740,306
General and administrative	3,989,842	4,317,500
Other	118,363	66,021
Total operating expenses	28,131,972	27,094,342
Excess of operating revenue over operating expenses	1,772,820	1,213,571
Other changes in unrestricted net assets, including investment returns	6,943,112	16,591,549
Change in unrestricted net assets	8,715,932	17,805,120
Change in temporarily restricted net assets	1,081,835	3,185,820
Change in permanently restricted net assets	272,137	170,000
Change in net assets	10,069,904	21,160,940
Net assets, beginning of year	117,689,904	96,528,964
Net assets, end of year	\$ 127,759,808	\$ 117,689,904



**Endowment Funds and the Beal Prize
12/31/2014**

Income Restricted Endowment:	Original Gift	
Research Prize Funds	at 12/31/14	Total Value
Steele	145,511	784,425
Birkhoff	50,132	98,481
Veblen	58,599	87,153
Wiener	29,773	52,225
Bôcher	32,557	53,055
Conant	9,477	52,278
Cole Number Theory	51,813	73,593
Cole Algebra	51,463	73,262
Satter	49,720	86,018
Chevalley Fund	115,000	119,488
Doob Prize	45,000	64,631
Robbins Prize	41,250	60,145
Eisenbud Prize	40,000	56,328
Other Prize and Award Funds		
Morgan	25,000	56,892
Albert Whiteman	93,618	135,999
Arnold Ross Lectures	85,212	116,603
Trjitzinsky	196,030	630,264
C.V. Newsom	100,000	293,290
Centennial	61,183	156,444
Menger	97,250	142,495
Ky Fan (China)	366,757	503,796
Gross	22,110	29,274
Epsilon	1,976,296	2,780,670
Einstein Lecture	100,000	145,846
Exemplary Program	100,000	144,954
Mathematical Art	20,000	28,991
Total (Income Restricted)	3,963,752	6,826,600
Income Unrestricted Endowment:		
Endowment	109,765	973,253
Morita	100,000	173,081
Henderson	548,223	5,161,172
Schoenfeld/Mitchell	573,447	978,535
Laha	189,309	328,751
Ritt	51,347	307,495
Moore	2,575	28,986
Total (Income Unrestricted)	1,574,666	7,951,273
Total Endowment Funds	5,538,418	14,777,873
Quasi-Endowment Funds (Board-Designated):		
Journal Archive Fund		1,607,169
Young Scholars		868,952
Economic Stabilization Fund (ESF)		29,407,917
Endowment Income Stabilization Fund (EISF)		490,634
Backfile Digitization Fund		111,389
Kathleen Baxter Memorial Fund		263,625
Operations Support Fund (OSF)		78,407,114
Total Quasi-Endowment Funds		111,156,800
Owed to operations		110,985
Beal Prize	1,000,000	1,263,562
Total Invested Funds		127,309,220



The following prizes and awards were given at the 2014 Joint Mathematics Meetings.

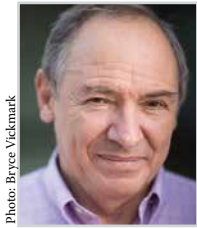


Photo: Bryce Vickmark

Leroy P. Steele Prize for Lifetime Achievement

Victor Kac

for his groundbreaking contributions to Lie Theory and its applications to Mathematics and Mathematical Physics.



Levi L. Conant Prize

Jeffrey Lagarias and Chuanming Zong

for their article, "Mysteries in Packing Regular Tetrahedra," which appeared in *Notices of the AMS*, Volume 59, No. 11 (2012), 1540-1549.



Leroy P. Steele Prize for Mathematical Exposition

Robert Lazarsfeld

for his books *Positivity in Algebraic Geometry I and II*, published in 2004.



Frank and Brennie Morgan Prize for Outstanding Research by an Undergraduate Student

Levent Alpoge

for several contributions in the fields of number theory, probability, and combinatorics.



Leroy P. Steele Prize for Seminal Contribution to Research

Rostislav Grigorchuk

for his influential paper "Degrees of growth of finitely generated groups and the theory of invariant means," which appeared in Russian in 1984 in *Izvestiya Akademii Nauk SSSR. Seriya Matematicheskaya* and in English translation a year later.



Ruth Lyttle Satter Prize in Mathematics

Hee Oh

for her fundamental contributions to the fields of dynamics on homogeneous spaces, discrete subgroups of Lie groups, and applications to number theory.



George David Birkhoff Prize in Applied Mathematics

Emmanuel Candès

for his work on compressed sensing that has revolutionized signal processing and medical imaging and his related work on computational harmonic analysis, statistics and scientific computing.



Photo: Vieri Bottazzini

Albert Leon Whiteman Memorial Prize

Umberto Bottazzini

for his many works in the history of mathematics, notably on the rise of modern mathematics in Italy and on analysis in the 19th and early 20th centuries.



Photo: George Bergman

Frank Nelson Cole Prize in Algebra

Peter Scholze

for his work on perfectoid spaces which has led to a solution of an important special case of the weight-monodromy conjecture of Deligne.



Photo: Allen Kee / ESPN Images

JPBM Communications Award 2015

Nate Silver

Through his articles for major media, his blog *FiveThirtyEight.com*, and his book *The Signal and the Noise*, he has provided a great public service by showing how sound quantitative methods can greatly increase understanding of significant societal issues.

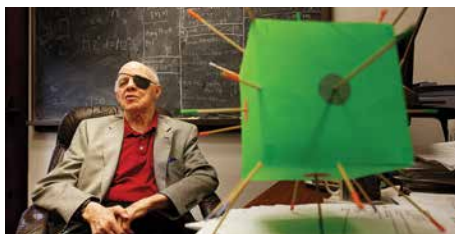


Photo: Jason Smith; Courtesy of University of Chicago.

Award for Impact on the Teaching and Learning of Mathematics – 2014

Paul Sally, Jr.

for his work with teachers and students at the precollege level, which began in the 1960s and continued unabated until the day of his death.



Photo: 2013 SMALL participants by Cesar E. Silva.

Award for an Exemplary Program or Achievement in a Mathematics Department – 2014

Williams College Department of Mathematics and Statistics

for its wide-ranging accomplishments and for being an inspiration to mathematics departments around the nation.



Photo: SMP community members (spanning 16 years), courtesy of Carleton College Summer Mathematics Program.

Mathematics Programs That Make a Difference Award – 2014

Carleton College Summer Mathematics Program for Women

for its successful efforts to encourage women to pursue doctoral work by helping them prepare for the rigors of graduate school and for building a thriving network of successful women in the field.



Photo: Participants in RUSIS 2012, courtesy of Javier Rojo.

Rice University Summer Institute of Statistics

for its significant efforts to encourage underrepresented minorities and women to continue in the study of mathematics.



Photo: Students in the Epsilon-funded PROMYS held at Boston University.

AMS Epsilon Fund 2014 Awards

AMS chose 22 summer math programs to receive Epsilon grants in 2014:

All Girls/All Math; Camp Euclid; Canada/USA MathCamp; Governor's Institutes of Vermont: Mathematical Sciences; KSU Mathcircle Summer Enrichment Program; MathILy; MathPath; Mathworks Honors Summer Math Camp; Michigan Math and Science Scholars Summer Program; New York Math Circle High School Summer Program; PROMYS; PROTaSM (Puerto Rico Opportunities for Talented Students in Mathematics); Research Science Institute; Ross Mathematics Program; SMaRT (Summer Mathematics Research Training Camp); Stanford University Mathematics Camp (SUMaC); Summer Program for Applied Rationality and Cognition; Summer Program in Mathematical Problem Solving; UMTYMP Summer Program; We Do Math; Williams College Math Camp (WCMA); Young Scholars Program.



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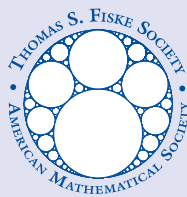
Our mathematics community is an exciting one. Dedication to mathematics moves the field ahead each day, and we all contribute in many ways. This Contributors Report acknowledges everyone who donated to the American Mathematical Society in 2014. Your gifts to the AMS allowed us to continue offering vital programs and services that address the needs of our wide-reaching and growing community.

The people and organizations listed here made gifts in 2014 that helped great things to happen, across all levels of scholarship. Budding young minds attended Epsilon-supported math camps where they learned new ideas; undergraduates received crucial financial assistance via Waldemar J. Trjitzinsky awards; graduate students deepened their studies with the help of AMS Graduate Student Chapters and the Graduate Student Travel Grant Program; early-career scholars collaborated within Mathematics Research Communities. Prizes were awarded to some of our most esteemed peers, and around the globe, mathematicians with limited resources were able to access research, thanks to the MathSciNet for Developing Countries program.

The mathematics of tomorrow develops from all our efforts today. Each and every gift helps mathematics advance and the Society is honored to be the steward of your generosity.

I extend my sincere gratitude to you for your support.

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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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 2014 donors who made these gifts possible.

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

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The people and businesses listed below made gifts to the AMS between January 1–December 31, 2014. 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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The AMS has played an important role in every stage of my career, providing information about professional opportunities, opening doors to professional networks and expanding my vision of mathematics. By giving to the AMS, we are

helping the next generation of mathematicians to grow and to thrive.

—Ruth Charney,
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The math department has been split into two buildings for many years at Texas A&M.... This past April, the pure math department moved into the applied math building, finally unifying the department. We decided to host two teas to bring together all the graduate students and professors.... They were a huge success.

—AMS Graduate Student Chapter, Texas A&M



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Without MathSciNet my work as a teacher and researcher would be severely compromised.

—Nick Gill,
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—Ahana, 8th grade participant at Epsilon Fund-supported camp

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Erik Demaine, Arnold Ross Lecture, 2013 at Museum of Math

Thanks again for a terrific event.... I think Dr. Ross would have been happy to know that such a terrific lecture series encourages kids to do mathematics.

—Arnold Ross
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I am learning so much that I've never learned before. So thanks for the support because this is the best thing that ever happened to me.

—Francisco,
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