



# Newsletter

## Message from the Chair



Joe Nichols

Dear Friends of the Foundation,

This has been a year of profound accomplishments for the Foundation, all of which have made my tenure as Chairman extremely

gratifying. I am proud to be associated with an organization so committed to making a difference. We have made incredible progress in extending our reach and in fulfilling our mission to enhance lives with math education this past year, as evidenced by the following achievements;

- Launching two new middle school math modules and a middle school math competition with our educational partner Scholastic
- Hosting the inaugural Modeling the Future Challenge Symposium in New York this past February with great success
- Promoting diversity and encouraging students to enter the actuarial profession by awarding 56 Foundation scholarships

- Expanding our award-winning Math Motivators tutoring program for high school students to Minnesota and Seattle this fall
- Raising over \$128,000 with the SOA Matching Gift Campaign for Math Motivators, which will allow for further expansion to New York and Nebraska in 2019

I am grateful to our individual and corporate donors whose immense generosity makes the work of the Foundation possible. It has also been my honor to work with the Board of Trustees, committee members, volunteers and staff and see firsthand the dedication that propels the Foundation forward to future success. I extend my heartfelt thanks to each of you for your steadfast support. My very best wishes to you and yours for a joyous holiday season, a prosperous 2019 and continued success for The Actuarial Foundation!

Sincerely,

Joe Nichols, ASA, EA, MSPA, MAAA  
Chairman

### Calendar of Events

March 6-7, 2019  
The Actuarial Foundation  
Board of Trustees Meeting  
Rosemont, IL

April 7-10, 2019  
Enrolled Actuaries Meeting  
Washington, D.C.

April 1-3, 2019  
SOA Life Insurance Conference  
Baltimore, MD

May 19-22, 2019  
CAS Spring Meeting  
New Orleans, LA



### SUPPORTING U.S. ACTUARIAL ORGANIZATIONS



**MISSION:** To enhance math education and financial literacy through the talents and resources of actuaries.

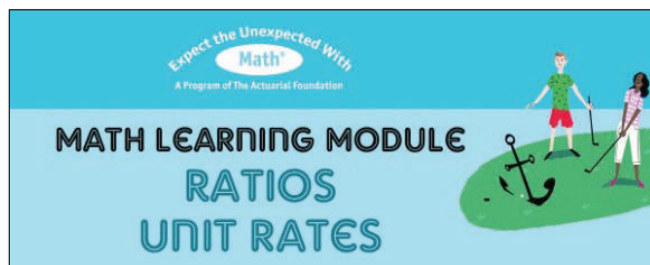
# Changing Lives with Math Education

## EDUCATION

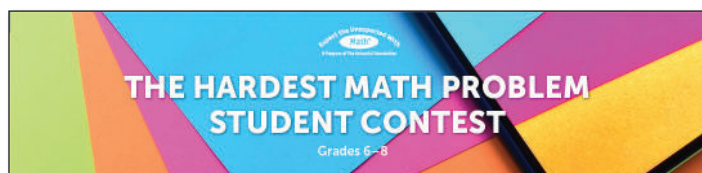
The Actuarial Foundation's *Expect the Unexpected With Math*® series, developed with Scholastic, is well-known for its distinct, interactive math resources. The newest Math Workshop modules launched this fall. With these free modules, students can pace their own math learning while building conceptual understanding through ready-to-go digital modules that include:

- Videos
- Interactive practice
- Quizzes
- Real-world story lines

Specially designed for students in grades 6-8, the modules focus on ratios and equations. For students in grades 6-7, there is a new module on ratios where they can work the math on a trip to a pirate-themed mini-golf course. For students in grades 7-8, the new equations module uses a fun storyline to help students work the math while making a film about time-traveling astronauts! Check



out these new resources and share them with a teacher you know! [www.scholastic.com/teachers/sponsored-content/unexpected-math/17-18/unexpectedmath/](http://www.scholastic.com/teachers/sponsored-content/unexpected-math/17-18/unexpectedmath/)



Another exciting component of the Scholastic line-up this year is a middle school math competition. The Hardest Math Problem student contest is designed to help students in grades 6, 7 and 8 practice critical

thinking supported by accurate computation. There is a story problem for 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> grade students. These problems give students a chance to show off their skills with ratios and equations. To make it more relatable and engaging for the students, each story problem is centered

around a teen using her smartphone. If students answer the story problem for their grade correctly, they will be invited to enter Challenge 2 where they have the chance to win a laptop and \$5,000 for their parents to put toward a 529 college savings plan. Teachers also have the opportunity to win a \$500 gift card. Learn more about this exciting new contest: [www.scholastic.com/hardestmathcontest/](http://www.scholastic.com/hardestmathcontest/)

### Modeling the Future Challenge

The Modeling the Future Challenge (MTF) is a national competition giving high school students the opportunity to develop and present their own mathematical models describing how a new technology or industry might change the future. The 2018-2019 Challenge topic is Future Cures.

To compete in this year's Challenge, students will identify one way in which they think a future cure will change healthcare. Students will select a chronic disease or illness in which researchers have demonstrated progress on a future therapy. They will

analyze data on the occurrences and severity of the disease or illness, and they will mathematically model how they expect the development of these new therapies to change the way the disease affects our healthcare industry, insurance, government, or society.

There are 215 teams and 873 students registered to participate in the 2018-2019 Modeling the Future Challenge. Finalists will be announced March 5, 2019. The finalists will present their projects at the Modeling the Future Challenge Symposium in Chicago on April 11-12, 2019.



A Program of The Actuarial Foundation

### Modeling the Future Challenge



The 2018-2019 Challenge topic is Future Cures

### John Hanson Memorial Math Grant

As part of the 2018-2019 Modeling the Future Challenge, the Foundation provided a limited number of \$500 John Hanson Memorial Educator Math Grants to educators. To apply for the grant, educators had to describe how the funds would be used to help their students connect with STEM, particularly mathematics, using the Modeling the Future Challenge. Five educators from across the United States were selected as this year's recipients. Each of these educators will receive a \$500 grant to help conduct an activity, run an event, or purchase materials that will enhance their math classroom and help them use the Modeling the Future Challenge to engage and excite

their students about STEM, particularly mathematics!

We are thrilled to see such enthusiasm for the Modeling the Future Challenge and look forward to seeing how each of these educators apply this support to enhance their teaching of mathematics through the MTF Challenge!

Congratulations to the 2018-2019 John Hanson Memorial Math Grant Recipients:

- Jake Crawley, Manara Leadership Academy, Irving, Texas
- Natalie Johnson, Metea Valley High School, Aurora, Illinois

- Nikki Kennedy, Arkansas School for Mathematics, Sciences and the Arts, Hot Springs, Arkansas
- Carole Ng, Santa Teresa High School, San Jose, California
- Christopher Pakdel, St. Anthony High School, Long Beach, California

*"Thank you so much for awarding our school the math grant. This will definitely help our students to stay motivated and fully engaged as they work hard to compete in the Modeling the Future event!"*



Natalie Johnson

- Natalie Johnson

### Math Motivators Program Update

The Math Motivators Tutoring program continues to grow! Here is an update of where we are:

- Connecticut – The Math Motivators tutoring program is operating in five schools, including one middle school. The program has 150 tutors from universities and nine companies.
- Chicago – We are running the program in three high schools with 50 tutors from seven companies and three universities.
- Minneapolis/St. Paul – We ran a pilot at one high school in October with the help of tutors from two companies and two universities.
- Portland, ME – Unum actuaries launched a program at Portland High School.

- Seattle – Milliman actuaries launched a five-week summer school program successfully. They also launched the program at one high school this fall.

We are on track to launch the program in New York and Lincoln, Nebraska in 2019.

Some other cities that we are considering for possible expansion include:

- Des Moines
- Pittsburgh
- Philadelphia
- Springfield, MA
- Shelton, WA
- Washington D.C.

Join us! If you can help us in our expansion efforts or are interested in volunteering, please contact Kelly Gschwend, [kelly.gschwend@actfnd.org](mailto:kelly.gschwend@actfnd.org) or call the Foundation office: 847-706-3535.



## SCHOLARSHIP AND REIMBURSEMENT PROGRAMS

### An Extraordinary Year for Scholarships and Reimbursement Programs

The Foundation awarded 56 college students with \$123,750 in scholarships for 2018. Here is the distribution of students receiving each scholarship:

- 39 Actuarial Diversity Scholarships
- 4 *Actuary of Tomorrow*—Stuart A. Robertson Memorial Scholarships
- 3 Caribbean Actuarial Scholarships
- 10 Curtis E. Huntington Memorial Scholarships

Meet the 2018 Foundation scholarship recipients at: [www.actuarialfoundation.org/wp-content/uploads/2018/10/TAF2018ScholarshipFlyer.pdf](http://www.actuarialfoundation.org/wp-content/uploads/2018/10/TAF2018ScholarshipFlyer.pdf)

*"Thank you very much for helping me pursue my dream of helping people and companies by becoming an actuary."*

- Ryan Muzulu, 2018 Actuarial Diversity Scholarship recipient



Ryan Muzulu

Seven individuals making a career change to the actuarial profession were awarded with the *Actuary – A Career Change: Elizabeth M. Mauro Reimbursement Program*.

Meet the 2018 Mauro Reimbursement recipients at: [www.actuarialfoundation.org/elizabeth-m-mauro-reimbursement-program/](http://www.actuarialfoundation.org/elizabeth-m-mauro-reimbursement-program/)

### Congratulations to our 2018 Mauro Reimbursement recipients:

- |                   |                 |
|-------------------|-----------------|
| Esther Addai      | Michael Jeffers |
| Michael Gaffke    | Jennifer Jones  |
| Ethan Galebach    | Antonio Ventura |
| Elizabeth Howland |                 |

## The Actuarial Foundation is a 2018 Power of A Summit and Gold Award Winner

The Actuarial Foundation earned 2018 ASAE Power of A Summit and Gold Awards in the Power to Enrich Lives category for its Math Motivators tutoring program. The American Society of Association Executives (ASAE) bestowed the industry's highest honor on the program for its work to close the achievement gap by connecting professional actuaries and college students majoring in actuarial science, mathematics, or math education with underserved students who need math tutoring. The Power of A Awards recognize the outstanding accomplishments of associations and industry professionals who work tirelessly to strengthen lives, the workforce, our systems and structures, the economy and the world.



Members of the Foundation Board and staff traveled to Washington, DC to accept the Power of A Summit and Gold Award.

## Society of Actuaries' Math Motivators Matching Campaign Exceeds Goal

Thanks to the generous support of the Society of Actuaries (SOA) and its members, The Actuarial Foundation is pleased to announce nearly \$129,000 has been raised for its Math Motivators tutoring program this past year. Generous contributions from SOA members during this year's matching gift campaign and at the 2018 SOA Annual Meeting & Exhibit raised \$64,461 for our award-winning tutoring program. With the SOA match, that brings the total donation to \$128,922.

The Foundation will use these funds to bring Math Motivators to more schools and communities across the country. The

expansion of the program will mean that more low-income high school students will have access to free math tutoring from local actuaries and actuarial science students. Donations will also be used to develop tutor training materials, give achievement-based awards and recognition to students and provide the funding needed to administer the program.

Thank you, SOA, for your sponsorship of Math Motivators. We couldn't give back and invest in the future of the actuarial profession without your generosity and support.



Foundation Chair Joe Nichols presents at the 2018 SOA Annual Meeting

## Rebuild Math Classrooms – Impact Report

Rebuild Math Classrooms, an initiative of The Actuarial Foundation, has helped numerous schools affected by natural disasters over the years by providing funds to replace damaged or destroyed math resources. In the fall of 2017, Florida was hit with hurricanes Irma and Maria, causing destruction to many communities. Local schools were not immune to this destruction and the lives of students and their families in the hurricanes' paths were heavily disrupted.

The Actuarial Foundation reached out to the Consortium of Florida Education Foundations (CFEF) offering to assist students and schools through their Rebuild

Math Classrooms program that supports math and science materials for any student affected by a natural disaster. Eight CFEF-member local education foundations requested and received support, ultimately impacting over 2,000 students.

These eight education foundations sent an impact report with some examples of how Rebuild Math Classrooms donations were used:

- Over 1,400 high quality graphing calculators were purchased for students throughout Florida. These calculators were used for advanced math classes and ACT/SAT preparation.

- Licenses to digital platforms Math XL and Math Bits were purchased to help students struggling with math. These platforms provide extra support and individualized reinforcement on needed skills and concepts both in school and at home.



Florida students with their new graphing calculators

### Three Scholarship Recipients Share Their Stories

Thank you to Bright Amuzdi, ACAS, Dominic Lee, ACAS, and Daniel Mena, FCAS for sharing their stories of how receiving a scholarship from the Foundation and the International Association of Black Actuaries positively impacted them on their journey to becoming an actuary. These three individuals shared their stories as part of a panel at an E&Y sponsored luncheon at the Casualty Actuarial Society Annual Meeting. We are grateful to Foundation Trustee Kathy Odomirok for moderating the panel and to Ernst & Young for its generous sponsorship of the luncheon.

The luncheon raised \$4,300 for the Foundation's Actuarial Diversity Scholarship and the International Association of Black Actuaries Scholarship.



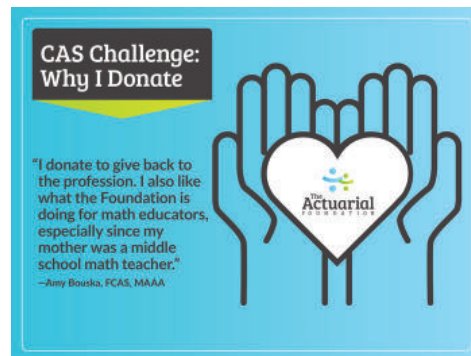
Doug French, Kate Weaver, Bright Amuzdi, Dominic Lee, Daniel Mena and Jason Leppin

### CAS Members - Steve Lowe Reissues his December Challenge!

Last December, CAS Member Steve Lowe was so inspired by the work of the Foundation, he decided to issue a challenge to his fellow members that resulted in 100 Foundation donors. This year, Steve is once again encouraging donors with a new challenge. For the 2018 CAS Challenge, the goal is 100 CAS donors, with an added layer of 50 first-time donors to the Foundation. If this Challenge is met by the end of 2018, Steve will once again generously contribute an additional \$5,000 to the Foundation.

Please join Steve in this worthwhile effort and support the work of the Foundation and the actuarial profession. CAS Members have already stepped up to the Challenge, sharing their reasons for supporting the Foundation on social media. Join them and recruit a new donor today!

Visit the special CAS Matching Donation page on the Foundation's website to make your donation today. Thank you for your generosity! <https://www.actuarialfoundation.org/donate-2018-steve-low-cas-challenge/>



CAS Members share why they give to the Foundation

### New Math Motivators Part-time Staff Members

The Foundation welcomes Arden Ashley-Wurtmann and Amanda Theriault, who are part-time staff supporting the expansion of the Math Motivators program. Arden works in the Minneapolis/St. Paul and Amanda works in Hartford, Connecticut. They visited the Foundation offices over the summer to meet the staff and attend a training event.



Arden Ashley-Wurtmann and Amanda Theriault

### Spread Double the Good Will This Holiday Season

The Foundation is grateful to the Actuaries' Club of Hartford and Springfield (ACHS) and the Actuarial Society of Greater New York (ASNY) for their generosity in establishing matching gift campaigns for their members. If you are a member of one of these groups, you have the chance to **double** your contribution benefitting students, teachers and the general public with Foundation resources and programs. See the website information below for each organization. Thank you for your support!

Actuaries' Club of Hartford and Springfield (ACHS):  
[www.actuarialfoundation.org/achs-matching-gift-campaign/](http://www.actuarialfoundation.org/achs-matching-gift-campaign/)

Actuarial Society of Greater New York (ASNY):  
[www.actuarialfoundation.org/asny-matching-gift-campaign/](http://www.actuarialfoundation.org/asny-matching-gift-campaign/)

### Doing any online shopping at Amazon this holiday season?

If you are purchasing holiday gifts at amazon.com, please consider shopping at smile.amazon.com, which donates a portion of your purchases to the Foundation. Visit <https://smile.amazon.com/> and choose Actuarial Foundation from the dropdown menu. Thank you for your support!

### Thank you to our Trustees

The following Trustees are completing their Board service terms at the end of 2018. We are grateful for your extraordinary commitment to the Foundation.

Pamela Cone, 2007, 2008-2010, 2011-2012, 2016-2018

A. Greig Woodring, FSA, MAAA, 2013-2015, 2016-2018

Thank you, Ezra Penland, for your generous sponsorship of the Foundation's 2018 annual meeting give-aways!



# Changing Lives with Math Education

Corporate partnerships help the Foundation develop math education and financial literacy resources and fund scholarships to change lives and promote lifelong math education. Thanks to all of the organizations below whose support makes our work possible.

Corporate Sponsors 2017-2018

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\$25,000+

Ernst & Young LLP  
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New York Life Insurance Company  
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## INNOVATOR LEVEL

\$10,000+

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## PIONEER LEVEL \$5,000+

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Trustmark Foundation  
Zenith Insurance Company

## PATHFINDER LEVEL

\$2,500+

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DW Simpson Global Actuarial & Analytics Recruitment  
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Hannover Life Reassurance Company of America  
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UnitedHealth Group  
Verisk Analytics  
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## BUILDER LEVEL \$500+

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The Jacobson Group

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