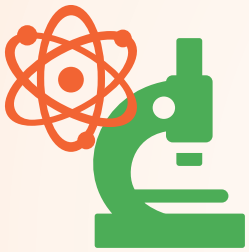
SCIENCE
FROM SCIENTISTS

"We work to improve the attitudes and aptitudes of 4th-8th grade students towards STEM by providing our unique, innovative, and award-winning STEM enrichment program to schools across the U.S.

Our programs are unique:

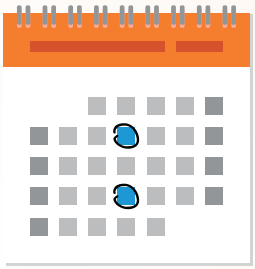


DURING-SCHOOL

We want to ensure that every student in the classroom has access to high-quality STEM opportunities.

ROLE-MODEL SCIENTISTS

All of our staff have strong academic backgrounds or demonstrable research experience in STEM, in addition to being approachable and passionate role-models in the classroom.



MULTI-TOUCH MODEL

We are in the classroom with our students and teachers every other week throughout the academic year. Our classroom teachers select lessons from our lesson library to create a completely customizable curriculum for every school.

MEASURABLE IMPACT

Over the last decade, our program has shown measurable impact by raising standardized test scores, improving students' knowledge and retention of STEM concepts, and improving students' attitudes towards future careers in STEM.

"Focusing efforts on increasing STEM literacy amongst elementary and middle school students will encourage passionate, competent individuals to pursue careers in STEM and progress through the STEM workforce pipeline, helping the U.S. to improve its global competitiveness in STEM.

THE STEM EDUCATION CRISIS

83% OF STUDENTS LACKING IN **STEM** PROFICIENCY

The U.S. is facing a crisis in the STEM (Science, Technology, Engineering, Mathematics) workforce training pipeline that needs to be addressed. STEM job positions are growing faster (+17%) than non-STEM jobs (+9.8%); yet, of the 32% of adults who earn a Bachelor's degree, only 29% will earn a degree in STEM. The Business Higher Education Foundation determined that, by the time students reach high school, 83% report lacking proficiency and/or interest in STEM. Thus, the STEM challenges must be addressed earlier, in elementary and middle school, where gaps in STEM content competency and interest begin.

HOW WE CAME TO BE

Science from Scientists was founded in 2002 by Dr. Erika Ebbel Angle, an MIT graduate with a doctorate in biochemistry from Boston University School of Medicine. Erika's life was strongly shaped by experiential science - winning the California state science fair three times on her way to choosing a career as a scientist and entrepreneur.

OVER **40** SCHOOLS

OVER **50 STAFF** MEMBERS

9,500 STUDENTS IN 2016

30,000 STUDENTS SINCE 2002

OUR SOLUTION

Our vision is to inspire students, ignite interest, and improve STEM competency with the goal of filling the workforce pipeline with talented, competent individuals. For our during-school program, we selectively choose and train real scientists with advanced STEM degrees to collaborate with classroom teachers to deliver hands-on, lab-based lessons, which are aligned with state and national frameworks; this collaborative program is cost effective and scalable and has had measurable impact. By bringing our program to students during the school day, we reach every student, not just those who already show interest in STEM, whose parents sign them up, or who are able to participate in out-of-school programs. In addition, because our scientists work elbow-to-elbow with classroom teachers to select and deliver the sequence of lessons for their classrooms, we provide an embedded professional development program to help our partner teachers feel more prepared and confident to teach high-quality, hands-on science lessons to their students.

+17% MCAS PERCENTAGE IMPROVEMENT IN MASSACHUSETTS SINCE STARTING SFS

90% of teachers surveyed indicated the SfS program has been **'very influential'** on students' interest towards science.

CONDUCTING THIRD-PARTY EVALUATIONS

The PEAR (Program in Education, Afterschool, and Resiliency) group, a joint initiative of Harvard University & McLean Hospital.

+82% INCREASE IN SCIENCE CAREER INTEREST

+87% INCREASE IN PERSEVERANCE & CRITICAL THINKING

+85% ADULT AND PEER RELATIONSHIP BUILDING

SCIENCE FROM SCIENTISTS

MASSACHUSETTS
1 Deangelo Drive, Suite C
Bedford MA 01730

CALIFORNIA
2205 Palm Avenue
San Mateo, CA 94403

MINNESOTA
11001 Hampshire Ave S
Bloomington, MN 55438

ScienceFromScientists
SciScientists

SciFromScientists
sciencefromscientists

info@sciencefromscientists.org
www.sciencefromscientists.org

Programs

In-School

IN-SCHOOL MODULE-BASED (ISMB) STEM ENRICHMENT PROGRAM

Science from Scientists (SfS) partners with elementary and middle schools that serve students in our target population of grades 4 through 8. SfS sends real, charismatic scientists into schools (during the school day) to see students throughout the entire school year.

SCIENTIST-TEACHER PARTNERSHIP (STP)

SfS uses our traditional ISMB model, in addition to training classroom teachers during the summer(s) to prepare and deliver an increasing number of SfS-developed modules over the course of three years. Our goal is for the program to increase teachers' abilities to deliver high-quality science instruction and material in their classrooms.

STEMISSARIES

SfS partners with local STEM corporations to have employees talk to classrooms about their experience in a STEM field, and the type of work that they do. Employee volunteers will be trained by SfS to present a lesson that best illustrates the work of the corporation they represent.

Out-of-School

VACATION PROGRAMS

Week-long programs that focus on developing research skills and project-based learning. These are collaborations with corporations or research facilities.

SCIENCE THEATER

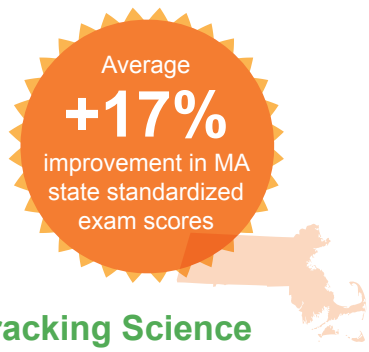
A live, interactive science-themed stage show that brings the excitement of science experiments to families and young children. Past shows have taken place at The Hall at Patriot Place, Joint Base Andrews in MD, and Disney World in Orlando, FL.

COMMUNITY PRESENTATIONS

We collaborate with school partners, districts, and community organizations to host hands-on science presentations and activities throughout our region of impact.

Measurable Impact

Science from Scientists measures improvements in student attitudes and aptitudes through several assessments and surveys



Tracking Science Standardized Test Scores:

For the 2015-16 school year, SfS observed an average 17% improvement in the number of students scoring Proficient/Advanced on the 5th-grade STE Massachusetts Comprehensive Assessment System (MCAS) exam. For schools performing below the state average, the average improvement was 22%.

Administering Pre- and Post-Lesson Quizzes:

To assess the effectiveness of each lesson as well as students' retention of subject matter. Last year, pre- and post-quizzes showed an average +16% improvement (more than a letter grade)!

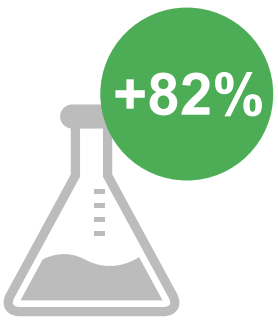
Collecting Teacher Surveys:

90% of teachers surveyed indicated that our program has been 'very influential' on students' interest towards STEM.

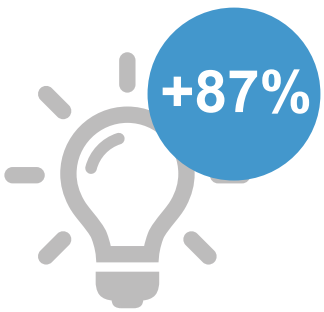
Conducting Third-Party Evaluations:

The PEAR (Program in Education, Afterschool, and Resiliency) group, a joint initiative of Harvard University & McLean Hospital.

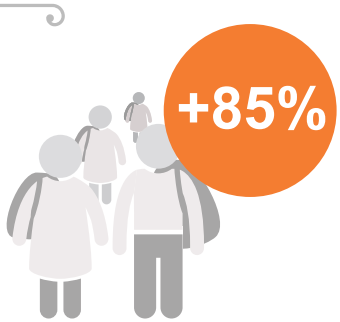
pear
PROGRAM IN EDUCATION, AFTERSCHOOL & RESILIENCY



INCREASE IN SCIENCE CAREER INTEREST

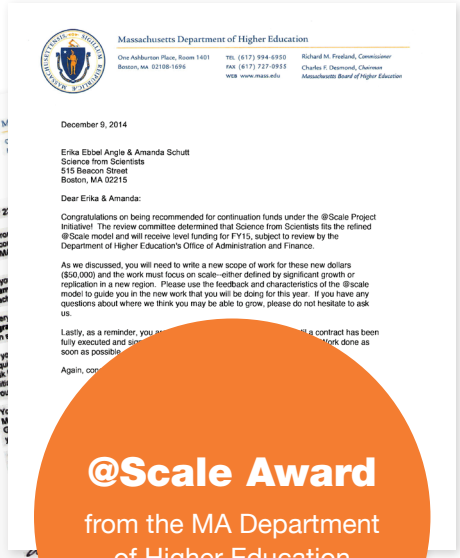


INCREASE IN PERSEVERANCE & CRITICAL THINKING



ADULT AND PEER RELATIONSHIP BUILDING

Awards


Massachusetts Department of Higher Education

December 9, 2014

Erika Ebbel Angle & Amanda Schutt
Science from Scientists
515 Beacon Street
Boston, MA 02215

Dear Erika & Amanda:

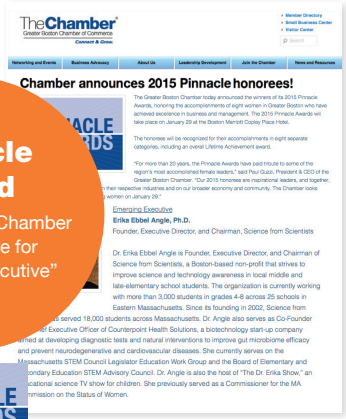
Congratulations on being recommended for continuation funds under the @Scale Project Initiative! The review committee determined that Science from Scientists fits the refined @Scale model and will receive level funding for FY15, subject to review by the Department of Higher Education's Office of Administration and Finance.

As we discussed, you will need to write a new scope of work for these new dollars ($50,000) and the work must focus on scale--either defined by significant growth or replication in a new region. Please use the feedback and characteristics of the @scale model to guide you in the new work that you will be doing for this year. If you have any questions about where we think you may be able to grow, please do not hesitate to ask us.

@Scale Award

from the MA Department of Higher Education

Science from Scientists received this award for having one of the most impactful and scalable STEM programs in the state.


TheChamber
Greater Boston Chamber of Commerce

Chamber announces 2015 Pinnacle honorees!

The Greater Boston Chamber today announced the winners of its 2015 Pinnacle Awards, honoring the accomplishments of eight women in Greater Boston who have achieved excellence in business and management. The 2015 Pinnacle Awards will take place on January 29 at the Boston Marriott Copley Place Hotel.

The honorees will be recognized for their accomplishments in eight separate categories, including an overall Lifetime Achievement award.

"For more than 20 years, the Pinnacle Awards have paid tribute to some of the region's most accomplished female leaders," said Paul Guzzi, President & CEO of the Greater Boston Chamber. "Our 2015 honorees are inspirational leaders, and together,

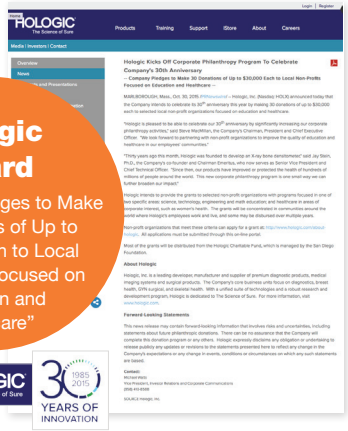
Emerging Executive
Erika Ebbel Angle, Ph.D.
Founder, Executive Director, and Chairman, Science from Scientists

Dr. Erika Ebbel Angle is Founder, Executive Director, and Chairman of Science from Scientists, a Boston-based non-profit that strives to improve science and technology awareness in local middle and late-elementary school students. The organization is currently working with more than 3,000 students in grades 4-8 across 25 schools in Eastern Massachusetts. Since its founding in 2002, Science from

Pinnacle Award

Greater Boston Chamber of Commerce for "Emerging Executive"

PINNACLE 2015 AWARDS

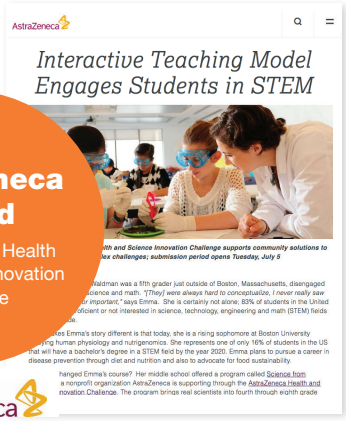

HOLOGIC
The Science of Sure

Hologic Kicks Off Corporate Philanthropy Program To Celebrate Company's 30th Anniversary
-- Company Pledges to Make 30 Donations of Up to $30,000 Each to Local Non-Profits Focused on Education and Healthcare --

Hologic Award

"Company Pledges to Make 30 Donations of Up to $30,000 Each to Local Non-Profits Focused on Education and Healthcare"

HOLOGIC
The Science of Sure
1985 2015
30 YEARS OF INNOVATION


AstraZeneca

Interactive Teaching Model Engages Students in STEM

AstraZeneca Award

AstraZeneca's Health and Science Innovation Challenge

AstraZeneca


Northwest School for Deaf & Hard-of-Hearing Children
Notre Dame Cristo Rey High School
Nurturing Learning Lab After-School
OSA Academy
Rainier Scholars
Refugee Women's Alliance Youth Tutoring Program

100 Ways Grant

Liberty Mutual Foundation grant for paving positive paths to top-quality education programming for children and youth

100WAYS

SCIENCE
FROM SCIENTISTS

Current Funders

Corporations and foundations that believe in our program and its positive impact on elementary and middle school students.

$75,000

CISCO A Corporate Social Responsibility Initiative

AMGEN

MASSACHUSETTS LIFE SCIENCES CENTER

GILEAD

SANOFI GENZYME

Genentech

American Honda Foundation

LINDE FAMILY FOUNDATION

3M

HOLOGIC The Women's Health Company

Raytheon

nationalgrid

$25,000

svb Silicon Valley Bank

NEW ENGLAND BioLabs Inc.

RUBENSTEIN FOUNDATION

Mass Insight EDUCATION

Cell Signaling TECHNOLOGY

LLEWELLYN FOUNDATION

Boston Scientific

ENDEAVOR EDUCATION INC.

Biogen

Liberty Mutual

BRAUN INTERTEC The Science You Build On.

HESTIA fund

HAROLD WHITEORTH PIERCE TRUST

BWH BRIGHAM AND WOMEN'S HOSPITAL

CONSIGLI Est. 1905

$10,000

VWR We Enable Science

GFCT The Gelfand Family Charitable Trust Advancing Hands-on STEM Initiatives

OPTIMUM TECHNOLOGIES

BOSE

ADELAIDE BREED BAYRD

THE SARAH G. McCARTHY MEMORIAL FOUNDATION

AstraZeneca

ECOEDUCATION FOUNDATION

SOCIETY FOR SCIENCE & THE PUBLIC

KINDER MORGAN

THE McCARTHY FAMILY FOUNDATION

CABOT

... In addition to many private donors ...

SCIENCE
FROM SCIENTISTS

Program Recipients

Science from Scientists currently delivers programming to the following schools:

Massachusetts Schools

BEVERLY
Hannah Elementary School (2016–present)

BOSTON
Sacred Heart School (2014–present)

Dr. William W. Henderson Elementary School (2013–present)

James Otis Elementary School East (2012–present)

Lilla G. Frederick Pilot Middle School (2011–present)

Maurice J. Tobin K-8 School (2014–present)

Mario Umana Academy East (2016–present)

McKay K-8 School (2015–present)

Warren–Prescott K–8 School (2012–present)

BOXFORD
Spofford Pond Elementary School (2015–present)

BOYLSTON
Tahanto Regional School (2016–present)

BROCKTON
Huntington Elementary (2016–present)

EASTON
Easton Middle School (2015–present)

HAVERHILL
Tilton Elementary School (2015–present)

LEICESTER
Leicester Memorial Elementary (2015–present)

LYNN
Washington Elementary School (2015–present)

MALDEN
Linden STEAM Academy (Spring 2013–present)

MARBLEHEAD
Cohen Hillel Academy (2005–present)

MILTON
Collicot Elementary School (2014–present)

Cunningham Elementary School (2014–present)

Glover Elementary School (2014–present)

Tucker Elementary School (2014–present)

PEABODY
Thomas Carroll School (2015–present)

PLAINVILLE
Beatrice H. Wood School (2013-present)

RANDOLPH
Margaret L. Donovan Elementary (2016–present)

J.F. Kennedy Elementary (2016–present)

Elizabeth G. Lyons Elementary (2016–present)

Martin E. Young Elementary (2016–present)

REVERE
A.C. Whelan Elementary School (2007–present)

Abraham Lincoln School Revere (2006–2011, 2012–present)

Beachmont Veterans Memorial School (2007–present)

Garfield Elementary School (2015–present)

Garfield Middle School (2016–present)

Paul Revere Innovation School (2014–present)

Staff Sergeant James J. Hill Elementary School (2006–present)

WORCESTER
Chandler Magnet School (2015–present)

Burncoat Street Elementary (2015–present)

Norrback Avenue School (2016–present)

California Schools

BRISBANE
Natalie Lipman Middle School (2014–present)

MELNO PARK
Nativity School (2017–present)

PACIFICA
Ingrid B. Lacy Middle School (2016–present)

REDWOOD CITY
McKinley Institute of Technology (2016–present)

Clifford School (2015–present)

Hoover Elementary (2017–present)

SAN FRANCISCO
St. John's Orthadox School (2017–present)

SAN MATEO
Bayside STEM Academy (2014–present)

Minnesota Schools

BLOOMINGTON
Poplar Bridge Elementary (2016–present)

ST. PAUL
Battle Creek Elementary (2016–present)

Updated February 2017

Over
5,000
students total!

Letter from the Founder

I founded Science from Scientists in 2002 with the intent of trying to address the “STEM challenge.” This challenge originates from two separate issues, that of aptitude and that of attitude. We are constantly reminded by the media (TV, newspapers and magazines) that students in the United States are struggling to stay competitive in STEM subjects. Their aptitudes in math and science are not competitive with that of their International peers. The need for qualified STEM professionals is growing while the number of students graduating prepared to take on these challenges is shrinking. Test scores indicate a large “achievement gap” between our students and those in other nations. With the growing global economy it is all too easy for companies to move their businesses to other nations or to hire individuals from other countries. This is already happening due to lack of preparedness of the students here at home.

Science from Scientists sends real, charismatic scientists into the classroom, during school every-other-week for the entire school year. We are a during school program because we believe that EVERY child should have the opportunity to be exposed to STEM, not just those in after school programs who are already interested, or whose parents sign them up. Every child deserves the opportunity to be exposed to hands-on science. Our staff is vetted for their ability to connect with children and help to change the “science is uncool” stereotype, which is so prevalent in our society. Our goal is also to improve student attitudes towards STEM by providing role-model scientists in the classroom who have other interests and hobbies, helping students to understand that scientists are often well-rounded individuals, not the stereotype frequently portrayed.

We also have a series of “outreach” programs to extend the reach of our program including Science Theater, Vacation Programs, CSI days and Table Top Activities.

As I mentioned earlier, attitude is only one half of the challenge. In these days of shrinking educational budgets and focus on other subjects because of standardized testing, many school districts have completely eliminated science from their curriculum. Partnered with this is the fact that many elementary and middle school teachers are afraid to teach science due to their own lack-of-preparedness, students are not being exposed at a young enough age and thus fall behind by the time they are in middle school. Once behind, it is difficult to catch up or to restore interest in STEM subjects in high school.

Science from Science from Scientists aims to bridge this gap as well. Our program is a hands-on program built around the material the students are expected to learn, not just “gee whiz” cool demonstrations (though our demonstrations are very cool!). We have shown quantifiable success in elevating student aptitude. We track standardized test scores in science to determine our efficacy and have shown a significant increase in state standardized test scores from before our program inception to after.

Since 2002, we have established ourselves as an organization with a track record of success in improving student attitudes and aptitudes in STEM. We recognize the importance of working with classroom teachers and take seriously the need to evaluate and improve our program with each passing year.

As scientists, we are all passionate about what we do and we thank you for your interest in Science from Scientists. We hope you will join us in continuing building a strong foundation for youth in STEM across our great nation.

Erika Ebbel Angle, Ph.D. Founder and Executive Director Science from Scientists

SCIENCE FROM SCIENTISTS

AS SEEN ON