



Presented by 3M

2018 *Year of the Engineer*

Mid-Year Report

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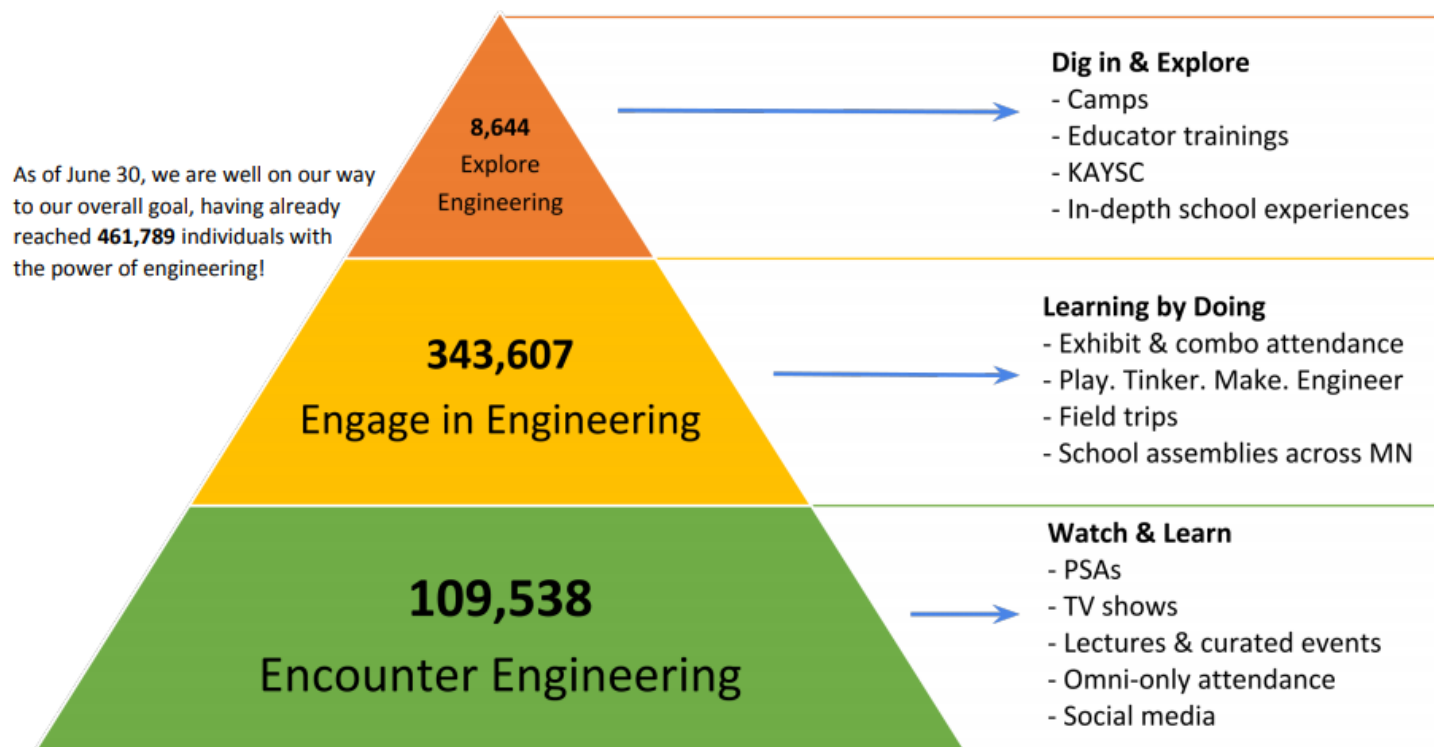
American Public Works Association



THANK YOU! Together We Are Making An Impact

Engineering has always been an integral part of the Science Museum (SMM), and in 2018, we are taking it to the next level with *the Year of the Engineer*. With support from companies like yours, the Science Museum is thrilled to report that the first six months of 2018 *Year of the Engineer* programming is meeting and exceeding expectations!

OUR GOAL: Reach 1 million people with the power of engineering



2018 Year of the Engineer Highlights

Year of the Engineer Kickoff Press Event (Jan 18)

Featured Shawntera Hardy, DEED Commissioner, and Senator Amy Klobuchar.

Cardboard Engineering Gallery

(Jan 13—Mar 15)

3,500 square feet of space dedicated to cardboard-inspired ingenuity! A gallery filled with hundreds of cardboard boxes and an assortment of tools delighted visitors of all ages to engineer their own builds and turn ideas into cardboard reality.

Towers of Tomorrow Exhibit — ONGOING!

(ends September 3, 2018)

Visitors are able to experience 20 of the most astonishing skyscrapers from around the world, replicated at 1:200 scale using only LEGO bricks, and can create their own 'tower of tomorrow.'

Dream Big Omnitheater Film — ONGOING!

(ends October 11, 2018)

Visitors meet four real-life engineers who are making a living confronting real world problems with innovative solutions. Soar above the world's tallest bridge and travel at speeds approaching 700 mph!

What's Coming Up!

***The Machine Inside: Biomechanics* exhibit**

(October 12—January 6, 2019)

***Living in the Age of Airplanes* Omnitheater Film**

(October 13, 2018—January 3, 2019)

Illumination Event (December 13-15 & 20-22)

Access and Equity

We are focused on connecting with women and girls, low-income individuals, and communities of color to provide opportunities to deepen engagement with engineering. Here are a few highlights of the year's access and equity programming.

- ❖ Science Fusion 2018 Event Series
(January 23—February 3; 12,469 attendees)

For two decades, science, technology, engineering, and math (STEM) professionals from the African American, American Indian, Latino, and Asian communities share their expertise at our family event series called Science Fusion: Bringing Cultures Together. This year the event featured engineer presenters as a primary theme.

- ❖ Society of Women Engineers (SWE)—*Spark, Slime, Speed* Event (February 18; 800 participants)

SMM hosted SWE's annual kick-off event for Engineers Week on Sunday, February 18. Volunteers from the local chapter of SWE ran hands-on activities for visitors to learn about various aspects of engineering.

- ❖ Erica Joy Baker Lecture (March 23; 50 participants)

Erica Joy Baker, a software engineer known for engineering innovative technology solutions for companies like Google and Slack, presented about her experience as an advocate for diversity and inclusion in the technology industry.

- ❖ Women In Science and Engineering Event (WISE)
(April 7; 5,000 participants)



This inaugural event featured pop-up STEM learning stations led by female leaders working in engineering.

Guests also met Menzer Pehlivan, a geotechnical engineer featured in the film *Dream Big*, who was inspired to become an engineer after experiencing a devastating earthquake in her native Turkey.

- ❖ Nobel Prize Inspiration Initiative Event, hosted by 3M (April 26; 150 participants)

Featuring Dr. Mario Molina, 1995 Nobel Laureate in Chemistry

This dinner and discussion event at the Science Museum of Minnesota featured Dr. Mario Molina, who shared the story of his groundbreaking ozone research that led to global environmental policy change. 150 people attended, including over 90 youth from the Science Museum's Kitty Andersen Youth Science Center (KAYSC), many of whom are youth of color who attend Saint Paul Public Schools.

- ❖ Engineering Week Field Trips (February 18-24; 477 attendees)

Year of the Engineer partners underwrote field trips for students to experience engineering activities and see *Dream Big*. We sponsored schools that were Title 1, or with a majority of students eligible for free or reduced price meals. That week alone, the museum welcomed more than 450 students from Washington Tech Magnet School, Hope Community Academy, American Indian Magnet School, and Eastern Heights Elementary School. All year, Year of the Engineer partners are enabling thousands of other students to have inspiring engineering field trips to the museum.

In The Media

Year of the Engineer PSA Series

Through a public service announcement campaign pushed out through television and social media, the museum is sharing stories from high profile and diverse engineers—all of whom were inspired at one time by the Science Museum.

SMM Engineering on TPT Hands On Science (April 13)

Twin Cities Public Television's STEM series, Hands-on Science, featured SMM's exciting engineering outreach program outside of its usual school assembly environment to a public audience.