

October 2010

MO MATH News!

Good News!

- MoMath is pleased to have received an “encourage” rating on a pre-proposal that was recently submitted to the National Science Foundation.
- Lease negotiations are ongoing for a roughly 20,000 square foot space on the north end of Madison Square Park. The site suits our mission well because of its park frontage, dramatic high-ceilinged space, and proximity to multiple forms of transportation.
- MoMath is excited to have made it to new offices in Manhattan! Our new mailing address is 134 West 29th Street, Suite 709-710, New York, New York 10001.
- A group of enthusiastic supporters has pledged to match every dollar donation with \$1.75 in additional funds.

Have fun with MoMath!

How can one piece of paper have six different sides? Go to momath.org/flexagon and print your very own cyclic hexatetra flexagon and follow along with detailed instructions online!

Follow us online:
momath.org
mathmidway.org
MoMath1 on Facebook
@momath1 on Twitter

Where is the Math Midway?

The Math Midway was a smashing success at the grand reopening celebration of the Sci-Tech Discovery Center in Frisco, Texas. The Midway will remain in Frisco through mid-January.

Math Midway schedule:

Sci-Tech Discovery Center, Frisco, TX
October 2, 2010 through January 16, 2011

Museum of Nature and Science, Dallas, TX
January 22 through May 16, 2011

World Science Festival Street Fair, New York, NY
June 5, 2011

Discovery Center for Science and Technology, Thousand Oaks, CA
June 17 through August 12, 2011

Boonshoft Museum of Discovery, Dayton, OH
February 4 through April 29, 2012

Maryland Science Center, Baltimore, MD
May 26 through September 3, 2012

Please visit mathmidway.org for more information.



USA Science & Engineering Festival

MoMath is excited to count itself among the hundreds of top-notch math, science, and engineering organizations that will be exhibiting on the National Mall in Washington, DC, as part of the inaugural USA Science & Engineering Festival. MoMath will feature exhibits such as the Ring of Fire, the exciting logo generator, and other fun activities during the Expo portion of the festival on October 23rd and 24th.

The festival is being pegged as the country's first national science festival, and it will feature more than 1,500 fun, hands-on, interactive activities and 75 stage shows. Attendees will have the chance to learn about topics ranging from the science behind special effects in movies to the chemistry of Thanksgiving dinner!

Science professionals and celebrities, including NASA astronauts and Bill Nye the Science Guy, will take part in the festivities as well.

Visit usasciencefestival.org for more information about the festival in Washington, DC, as well as find information for satellite events in your area.

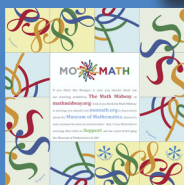
Say Cheese!



Danny Most, former star of TV's 'Happy Days' (Ralph Malph), proudly displays his MoMath T-shirt while taking a break from hosting the "Doo Wop Rocks" concert at the Brookhaven Amphitheater in Farmingville.

Become our 1000th Twitter Follower and Win a Free MoMath T-Shirt!

Help celebrate Powers of Ten Day and become our 10³ Twitter follower @momath1, and we will mail you a free MoMath T-Shirt and cyclic hexatetra flexagon!



Look Who's Talking About MoMath!

September 20, 2010 – *Newsday* published an OpEd piece from MoMath Executive Director Glen Whitney. In the article entitled "Math quest," Glen addressed the growing decline in math education deterioration in this country, as well as the belief that bringing more real world connections to mathematics will make the process of understanding its concepts less daunting and easier to grasp.

August 9, 2010 – Mathematician Keith Devlin mentioned Glen Whitney and the Museum of Mathematics in his monthly Mathematical Association of America column, *Devlin's Angle*, with an article entitled, "2010: A Space Odyssey," where he talks of how "mathematics is finally getting its fair share of the museum world."

August 9, 2010 – Verizon FiOS1 News featured the Math Midway on *Push Pause TV* at 3:30 p.m. and 9:30 p.m.

August 12 and August 13, 2010 – In response to the Math Midway installation at the Gallery on the Hill in Farmingville, New York, *The Times Beacon Record* printed an article entitled, "Summer Fun? Let's Do Some Math!" and *The Press of Manorville and The Moriches* printed an article entitled, "Government + Kids + Mathematics = A Winning Combination."

Glen Whitney Continues to Inspire Teacher and Student Groups

Glen Whitney, MoMath Executive Director, speaks regularly to both teacher groups and student groups, hoping to inspire curiosity about the wonders of mathematics. The MoMath team has an impressive knack for creating interactive, hands-on programs that entertain as well as educate. Working together with Chief of Operations Cindy Lawrence and Chief of Content George Hart, Glen highlights the evolving, creative, aesthetic, and often surprising nature of mathematics. Each presentation is uniquely developed for the specific venue and audience, and their programs have been very well received. Among the teacher groups recently addressed are the Mathematics Teacher Training Institute and Math for America. As for student groups, MoMath has worked with the New York Math Circle and with two Long Island STEM Expos.

What is the Science Festival Alliance? How Can it Help MoMath?

The Science Festival Alliance supports the development of science festivals while promoting best practices. In their own words, the mission of the Science Festival Alliance is "supporting the advancement of science festivals—extended celebrations of science, engineering, and technology that engage whole communities."

Key members of Museum staff met with representatives from the Science Festival Alliance in an effort to learn ways to reach more kids across the country. As a proposed solution, the Science Festival Alliance has offered to help the Museum of Mathematics create a version of the Math Midway that could be more easily installed and uninstalled for one-day use. The Museum is currently seeking funding to support such an effort.

For more information on the Science Festival Alliance, visit sciencefestivals.org.

Maker Faire Event Draws Thousands

September 25, 2010 – MoMath was thrilled to be a part of *Make* magazine's Maker Faire, held on the grounds of the New York Hall of Science in Flushing, Queens. Hundreds of enthusiastic visitors worked with Museum staff to build Amazing Acrobats and cyclic hexatetra flexagons at the day-long event. Each visitor left with a completed flexagon along with a heightened curiosity for the wonders of mathematics!



Powers of Ten Day!

October 10th, also known as “Powers of Ten Day,” will be extra special this year because we are in the year 2010, and that means that October 10th will be 10/10/10!

In addition to our Twitter contest, we want to encourage folks across the country and around the world to celebrate the Powers of Ten by taking at least ten minutes of the day and celebrating math and how much fun it can be!

For example, did you know that the powers of the number ten have very interesting names? We all know that 10^3 is a thousand and 10^6 is a million, but do you know what 10^{30} is called? Check out the table on to the right for all of the interesting names for the powers of the number ten. See if your age is listed as an exponent, or see how close to your age you can get. That can be your nickname for Powers of Ten Day, or 10/10/10!



Powers of Ten Film

The short film entitled *Powers of Ten* has been very significant with the math, science, and design worlds since its release in 1977. Ray Eames, along with her husband Charles Eames, created the film as a way to create recognition with respect to some of the larger and smaller exponents of ten.

The Library of Congress selected *Powers of Ten* for preservation in the United States National Film Registry in 1998, citing its “culturally, historically, or aesthetically significant” impact on science. Visit powersof10.com for more information.

MoMath Helps Celebrate the Launch of Stony Brook University’s New Center for Communicating Science!

September 23, 2010 – Physics and math professor Brian Greene, along with special guest Alan Alda, hosted a public conversation regarding the need for effective science communication to kick-off an evening of events to celebrate science and the new Center for Communicating Science master’s degree program at Stony Brook University.



MoMath was invited to be a part of the evening’s festivities, and smaller versions of the Math Midway’s Ring of Fire, Miles of Tiles, tetraxis, and new logo generator were available for guests to enjoy during the reception portion of the evening.



Following the reception, guests were treated to a screening of *Hubble 3D*, the new IMAX film about the repair of the Hubble telescope and the universe as seen through Hubble images.

Top: Guests enjoy the new Portable Ring of Fire exhibit.

Bottom: Stony Brook University President Samuel L. Stanley Jr, M.D., has fun with MoMath during the celebration held September 23rd.

Powers of Ten Table

Values	Zero's	Names
10^0	0	One
10^1	1	Ten
10^2	2	Hundred
10^3	3	Thousand
10^4	4	Myriad
10^6	6	Million
10^9	9	Billion
10^{12}	12	Trillion
10^{15}	15	Quadrillion
10^{18}	18	Quintillion
10^{21}	21	Sextillion
10^{24}	24	Septillion
10^{27}	27	Octillion
10^{30}	30	Nonillion
10^{33}	33	Decillion
10^{36}	36	Undecillion
10^{39}	39	Duodecillion
10^{42}	42	Tredecillion
10^{45}	45	Quattuordecillion
10^{48}	48	Quindecillion
10^{51}	51	Sexdecillion
10^{54}	54	Septdecillion / Septendecillion
10^{57}	57	Octodecillion
10^{60}	60	Nondecillion / Novemdecillion
10^{63}	63	Vigintillion
10^{66}	66	Unvigintillion
10^{69}	69	Duovigintillion
10^{72}	72	Trevigintillion
10^{75}	75	Quattuorvigintillion
10^{78}	78	Quinvigintillion
10^{81}	81	Sexvigintillion
10^{84}	84	Septenvigintillion
10^{87}	87	Octovigintillion
10^{90}	90	Novemvigintillion
10^{93}	93	Trigintillion
10^{96}	96	Untrigintillion
10^{99}	99	Duotrigintillion
10^{100}	100	Googol