

Fall 2013 Newsletter



Science - Technology - Engineering - Mathematics

*See more below about:
**NEW! STEM Portal
on Minnesota
Compass***

***Sparticl, a new site for
teens and STEM***

***Northeast Region
hosts its 2nd annual
meeting***

***Fargo/Moorhead
STEM regional
network forms***

***Support SciMathMN
on Give to the Max
Day 2013***

AirSpace Minnesota

Letter from the Executive Director of SciMathMN

One of the most important dates of the year for SciMathMN is fast approaching.

[Give to the Max Day](#) is coming up on November 14. This is a great opportunity for STEM education advocates to show their support for high quality STEM education based on research, national standards and effective practices. SciMathMN relies on individual contributions to promote the innovative work that wouldn't be completed without the hard work of countless volunteers.

For example, we were pleased to have several SciMathMN board members serve on the core advisory committee with Boston Scientific and Wilder Research to launch the STEM section of MN Compass, a comprehensive online site that provides a common foundation of information to understand and act on critical STEM issues such as the achievement gap. The site is now live and will be officially unveiled on December 6 with a launch event in St. Paul.

event, October 11

**2013 Statewide
Tour of
Manufacturing -
October 24-26**

**SciTechsperienc
e Internships**

*E4 Conference hosted
by The Works,
November 19*

*STEM Day at the
State Fair Recap*

**SciMathMN is a
non-profit,
statewide
education and
business
coalition
advocating for
quality K-16
science,
technology,
engineering,
and
mathematics
education based
on research,
national
standards and
effective
practices.**

We're also thrilled to announce the growth of the MN STEM Network to include the Fargo/Moorhead area. A committed group of volunteers is actively organizing a regional network with the support of business, education and community leaders. Their counterparts in Duluth will hold the second regional meeting of the Northeast STEM Network on November 14.

This is an exciting time to part of SciMathMN. On behalf of the Board of Directors, I want to thank you for your commitment to making our state more livable and prosperous.



Peter Lindstrom
Executive Director

New Portal for Minnesota STEM Data Launched by Minnesota Compass and Boston Scientific

A new [online portal](#) for Minnesota STEM data and resources is now available on the website of Minnesota Compass, a community indicators project led by Wilder Research. Sponsored by Boston Scientific, the STEM section aims to answer:

- How does Minnesota fare on key measures of STEM success from PreK-mid career?
- What are best practices for supporting these measures?
- Are we making progress over time?

Data on Minnesota STEM education and workforce measures are provided at the statewide, regional, and county levels, as well as for different demographic subgroups. The site also provides



Major initiatives include policymaker briefings, the [STEM Teacher Center](#) online resource and the Minnesota STEM Network.

The Minnesota STEM Network is an outreach initiative of SciMathMN which

- increases engagement in education
- builds community among stakeholders
- promotes STEM
- shares practices and resources and
- improves communications

.

Learn more

research-based information on STEM benchmarks, [disparities](#), and best practices as well as resource links. Check the [What's New](#) page for updates and articles by Marilee Grant, Boston Scientific, and project lead researcher Caryn Mohr, Wilder Research.

Minnesota Compass and Boston Scientific worked with an [advisory committee](#) of stakeholders to develop the site's STEM cradle-to-career framework. Many members of the Minnesota STEM Network contributed to this process. Advisory committee meetings were co-convened by Marilee Grant, Boston Scientific; Paul Mattessich, Wilder Research; Doug Paulson, Minnesota Department of Education; Margaret Anderson Kelliher, Minnesota High Tech Association; and Rose Chu, Metropolitan State University.

Members of the core advisory group guiding the process included Tim Barrett, Minnesota High Tech Association; Ronald Bennett, University of St. Thomas; Marilee Grant, Boston Scientific; Craig Helmstetter, Minnesota Compass; Anne Hornickel, University of Minnesota; Caryn Mohr, Wilder Research; Dan Mueller, Wilder Research; Doug



Paulson, Minnesota Department of Education; Jessi Strinmoen, Rochester Chamber of Commerce; Eva Scates-Winston, Minnesota State Colleges and Universities, and Steve Walvig, The Bakken Museum.



Measuring progress.
Inspiring action.

mncompass.org

Sparticl Launched--Designed for Teens; Open to All

Twin Cities Public Television has just launched [Sparticl](#), a FREE

about the network at

[MN STEM Network](#)

Statewide Tour of Manufacturing

The Dream !t Do !t campaign will host the third annual Statewide Tour of Manufacturing on October 24 - 26. Last year over 50 companies and community colleges held open houses during the tour. For updates on participating manufacturers visit the [Statewide Tour of Manufacturing](#) website.

Please promote this event to your audiences and through your communications and social media.

online and mobile destination that makes searching for science simple.

Want to know what makes the chemistry of the body? When was Sputnik launched into space? What are the physics at work in a circus? Check it out on Sparticl.

It's designed for teens, but there's something for everyone, with videos, games, articles and hands-on activities. Sparticl accommodates all learning rates and styles.

Teens can help. They can rank and share content, recommend new websites, and increase status with points and badges.



We'd also like for you to help spread the word to teens, parents, schools, after-school programs – anyone that you think might be interested in Sparticl. Encourage them to take a look and follow us on Facebook, Twitter and Google+.



Sparticl is presented by



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**Northeast Region Hosts 2nd annual meeting
Thursday, November 14, 2013
8:00 - 11:45 am
Holiday Inn, Duluth [\[map\]](#)**

The leadership team of the Northeast Region of the Minnesota STEM Network announces its 2nd annual meeting on Thursday, November 14, 2013. The meeting will feature a presentation by Caryn Mohr, research scientist for Wilder Foundation on data on STEM interest and achievement in Northeast Minnesota. Ms. Mohr was the lead developer of this new [STEM portal of MN Compass](#). The leadership team will present its work over the





past year, and propose network action to engage more students in STEM in Northeast Minnesota.

[Free registration is now open.](#)

The 2nd annual meeting is sponsored by:



with additional support from the University of Minnesota.

AirSpace Minnesota Event Honors Bob Gilruth

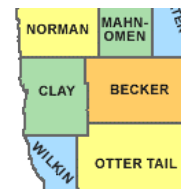
**Friday, October 11
11:30 - 1:30pm
Northern Star
Council Base Camp,
Fort Snelling**

Known as the “Father of America’s Human Space Flight program”, Bob Gilruth was born in Nashwauk, Minnesota on October 8, 1913. He graduated from high school in Duluth and earned Bachelor's and Master's degrees in Aeronautical Engineering from the University of Minnesota. He advised President Kennedy to put a man on the moon led the Apollo program.

AirSpace Minnesota is honoring the centennial of Bob Gilruth's birth by welcoming Dr. Harrison "Jack"

Fargo/Moorhead Forms a Regional STEM Network

Stakeholders in STEM education and workforce development are forming a regional network focusing initially in the Fargo/Moorhead area. The regional network will serve both states, and connect to [North Dakota STEM Network](#). The network and leadership team are currently under development. If interested, contact [Doug Dean](#) of John Deere, Inc., [Matt Craig](#) of MSU-Moorhead, or [Anne Hornickel](#) on the SciMathMN executive committee.



STEM Day Celebration at Opening Day of the Minnesota State Fair

Carousel Park at the Minnesota State Fair was packed with families, stage presenters, exhibitors and fun at STEM Day on August 22nd.

Schmitt - astronaut, pilot, geologist, academic, businessman and U.S. Senator - the only scientist and last of 12 men to step onto the Moon.

Author of *Return to the Moon: Exploration, Enterprise, and Energy in the Human Settlement of Space*, Dr. Schmitt can both illuminate Bob Gilruth's impact and help us see new possibilities for Minnesota vision and innovation.

Educator/Nonprofit Ticket for lunch and keynote: \$50. Some sponsored tickets are available. Please contact [Kristi Rollag Wangstad](#) if interested.

[Get more information](#)

[Register Now!](#)

Give to SciMathMN on Give to the Max Day!
Thursday, November 14

Include [SciMathMN](#) in your giving on Give to



Photo by Rhonda Zurn.

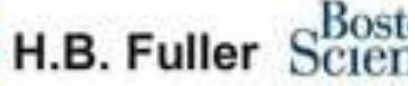
The 2013 STEM Day grew beyond the bounds of Carousel Park to Dan Patch Avenue to include extra large venues --the mobile labs of St. Cloud State University and cars designed and built by students participating in the super high-mileage competition.

SciMathMN and STEM Day participating organizations thank our sponsors for making STEM Day possible.

STEM Day at the State Fair was brought to you by



With additional support from



UNIVERSITY OF MINNESOTA



the Max Day
2013! Your
contribution supports
advoca
cy for
STEM
educat
ion
across
Minnesota. Thank
you!



SciTechsperience

STEM college students gain valuable work experience through MHTA's SciTechsperience

The Minnesota High Tech Association (MHTA) has developed SciTechsperience, a statewide, paid internship program that connects college students in STEM fields to hands-on opportunities in small- and medium-sized Minnesota companies. MHTA was recently awarded increased funding from the State that, over the next two years, doubles the number of annual internships it can support. SciTechsperience will place 100 students in 2014 and 125 in 2015.

Follow us on Twitter and LinkedIn

Follow [@MNSTEMNetwork](#) for the latest in STEM news and events.

Post announcements on [MN STEM Network group](#) on



**E4 - Excellence in
Elementary
Engineering
Education
Tuesday,
November 19
8:00 - 4:00**

[Register Now](#) for the 2013 conference at an early bird rate! The 6th annual E4 Conference is a full-day professional development conference with a keynote speaker and breakout sessions on the

A new application process will launch in October for the 2014 year, as well as increased outreach with student groups, particularly with women and minority STEM students, and spreading the word about this opportunity to small and medium-sized companies across Minnesota.

Carla Pulles, a Bioproducts and Biosystems major at the University, is pictured at right with Margaret Anderson Kelliher, President & CEO of MHTA, and State Representative Kurt Aspen



Zellers. Carla interned at Research in 2012 and 2013.

If you are interested in learning more about how to participate in SciTechsperience, please contact [Becky Siekmeier](#) or visit the [SciTechsperience website](#).

why, what, and how of teaching elementary engineering. It will be held at the [Continuing Education and Conference Center, St. Paul Campus](#) of the University of Minnesota. The E4 conference is hosted by [The Works](#).



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