Visit the NAMC/SIGMAA-MCST MathFest Booth to try out different mathematical outreach activities and talk to Math Circle leaders about their Math Circle experiences.

10:00 am - Noon.   Thursday, August 4, 2016

Stomp Rockets
Stomp rockets are great for STEM outreach events. Students construct rockets out of construction paper and then hypothesize which rocket will go the highest. Using mathematics the students can then work together to calculate the height of their rocket flights.

1:00 pm - 5:45 pm. Thursday, August 4, 2016 (Franklin C)

SIGMAA-MCST Contributed Paper Session
My Favorite Math Circle Problem - see inside pages for more details

Thursday 6:00 – 8:00 pm
Join us for the **NAMC Math Circle Happy Hour** – Location TBA.

10:00 am - Noon.   Friday, August 5, 2016

Four Square Problem
This problem is perfect for students who need practice in basic arithmetic and are up for a challenge. The students repeat subtraction over and over again and the more they engage in the game the harder subtraction problems they will assign to themselves.

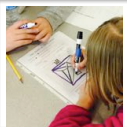## 2:00 pm - 4:00 pm. Friday, August 5, 2016

Mathematical Tiling
Tiling allows us to mathematize the world around us, providing game play with classroom tile floors or kitchen counters. The nice aspect of doing tiling while doing mathematical outreach is how nicely challenge activities can be provided for students who understand the basic game and are ready to take it to the next step.

10:00 am - Noon.   Saturday, August 6, 2016

Criss-Cross
Criss-Cross is a game presented by S. Vandervelde in his *Circle in a Box* book of Math Circle activities and planning documents. The game is approachable by students of various backgrounds and easily scaffolded up or down depending on students' interests
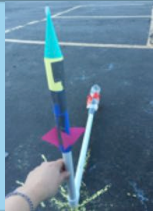
For more information about these activities visit
https://www.mathcircles.org/content/quick-activities-mathematical-outreach-events

Interested in Mathematical Outreach?

Stop by the NAMC / SIGMAA-MCST Booth and learn about quick and fun outreach activities!

Thursday 10:00 am - Noon	Friday 10:00 am - Noon	Friday 2:00 pm – 4:00 pm	Saturday 10:00 am - Noon
Stomp Rockets	Four Square Problem	Mathematical Tiling	Criss-Cross

Discover Math Circles!

Math Circle Events at MathFest 2016

Wednesday, August 3
6:00 pm - 8:00 pm: Grand Opening Exhibit Hall Reception (Exhibit Hall)
Thursday, August 4
9:00 am - 5:00 pm: Visit the NAMC Booth (Exhibit Hall)
1:00 pm - 5:45 pm: SIGMAA-MCST Contributed Paper Session:
        My Favorite Math Circle Problem (Franklin C)
6:00 pm - 8:00 pm: NAMC Math Circle Happy Hour (Location TBA)
Friday, August 5
9:00 - 5:00 pm: Visit the NAMC Booth (Exhibit Hall)
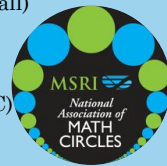**Saturday, August 6**
9:00 am - 12:00 pm: Visit the NAMC Booth (Exhibit Hall)
1:00 pm - 1:50 pm: Special Presentation for High School Students, Parents, and
        Teachers: The Astounding Mathematics of Bicycle Tracks (Hayes)
2:00 pm - 3:30 pm: SIGMAA-MCST Math Teachers' Circle Demo (Morrow)
4:00 pm - 5:30 pm: Math Wrangle (Morrow)

For additional Math Circle resources visit these organizations' websites:

* National Association of Math Circles: http://mathcircles.org
* NAMC on Facebook: http://www.facebook.com/MathCircles
* SIGMAA-MCST: http://sigmaa.maa.org/mcst
* Math Teachers' Circle (MTC) Network: http://mathteacherscircle.org

SIGMAA-MCST Contributed Paper Session
My Favorite Math Circle Problem

Thursday, August 4th
1:00 – 5:00 pm
Location: Franklin C

Organizers:
Katherine Morrison, *University of Northern Colorado*
Philip Yasskin, *Texas A&M University*
See abstracts online, https://www.mathcircles.org/content/mathfest-2016

1:00 – 1:15 pm Tiling with Pentagons
Judith Covington, *LSU Shreveport*
1:20 – 1:35 pm The Check is in the Mail
Mary Garner, *Kennesaw State University*
Virginia Watson, *Kennesaw State University*
1:40 – 1:55 pm Measuring Up: Perfect Rulers
Chris Bolognese, *Columbus Academy*
Raj Shah, *Math Plus Academy*
2:00 – 2:15 pm First Survey of National Association of Math Circles
Diana White, *University of Colorado Denver*
Brandy Wiegers, *Central Washington University*
2:20 – 2:35 pm Group Discussion
2:40 – 2:55 pm Using Tools to Communicate in Math Teacher' Circle
Sandra Richardson, *National Science Foundation*
3:00 – 3:15 pm Making Infinitely Many Mistakes Deliberately – Iteration
Robert Sachs, *George Mason University*
3:20 – 3:35 pm Fractals: Theory, Application – and Business Cards?
Douglas Meade, *University of South Carolina*

SIGMAA-MCST Contributed Paper Session
My Favorite Math Circle Problem (cont'd)

3:40 – 3:55 pm Stimulating math curriculum for students from challenging socio-economic backgrounds
Alessandra Pantano, *University of California, Irvine*
4:00 – 4:15 pm Visualize the Two Conjugate Complex Roots for Quadratic Equations
Li Feng, *Albany State University*
Janis T. Carthon, *Albany State University*
Courtney L. Brown, *Albany State University*
4:20 – 4:35 pm Projective Geometry Hidden Inside: Can you Spot it!?
Thomas Clark, *Dordt College*
4:40 – 4:55 pm The Mathematics of Shidoku
Crystal Lorch, *Ball State University*
John Lorch, *Ball State University*
5:00 – 5:15 pm Pirate Zombie Math
Angie Hodge, *University of Nebraska Omaha*
5:15 – 5:45 pm AIM MTC-Net, and MSRI NAMC Discussion
6:00 – 8:00 pm Post-CPS Happy Hour, hosted by NAMC. Location TBA

Join us for these additional SIGMAA-MCST events on Saturday, August 6th

1:00 – 1:50 pm
Hayes Special Presentation for High School Students, Parents and Teachers: *The Astounding Mathematics of Bicycle Tracks*
James Tanton, *Ambassador for the Mathematical Association of America.*

2:00 – 3:30 pm
Morrow Math Teachers' Circle Demonstration
Amanda Serenevy, *Riverbend Community Math Center*
Bob Klein, *Ohio University*

4:00 – 5:30 pm
Morrow Math Wrangle
Mark Saul, *American Math Competitions*
Ed Keppelmann, *University of Nevada*

More details at https://www.mathcircles.org/content/mathfest-2016