

# South Central STEM Hub Newsletter

**GREATNESS  
STEMS  
FROM IOWANS**

**Drake**  
UNIVERSITY

SOUTH CENTRAL IOWA REGION GOVERNOR'S STEM ADVISORY COUNCIL

## STEM Happens



### In This Issue

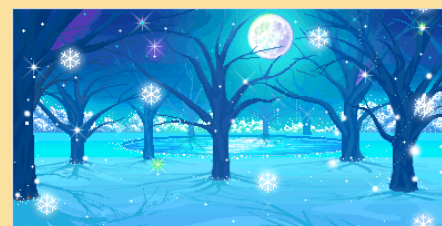
[Knoxville's Northstar Receives Award](#)

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*Happy Holidays!*



As I reflect on the highlights of 2016, I am grateful for the opportunity to work with those who shape Iowa's future.

Whether we cross paths at STEM festivals, Scale-Up trainings, Teacher Externships, Code Iowa events, committee or board meetings, or professional conferences, it is a joy to continue to serve with you and your community.

Keep sharing your STEM stories with us. Lisa Morlock, our invaluable STEM Hub Associate, and I love to receive and share south central's regional



Tyler Pearson, above left, received the award from Dr. Sarah Derry. Top photo: Shelby Lucas' (right back) class was present for the award ceremony. Other district leaders include Pearson (right front), Technology Integration Specialist Lindsay Carlson and Principal John Keitges (left back).

## Code Iowa Regional Winner: Knoxville Elementary Congratulations to Northstar!

Questions, cheers, laughter and learning: December 6 was a good day at Northstar Elementary! The Knoxville school celebrated their newest award as SC STEM Regional Code Iowa Awardee. We visited Shelby Lucas' third grade class. For most, it was their first experience with code.

Code Academy integrates popular movies, like Frozen, with engaging tutorials. "You have to figure out and use angles with Ana and Elsa," said Raegen. "Angles are new to me but we have talked about them in math."

Technology teacher Tyler Pearson wrote for the grant. He received \$3,500 to use for building technology purchases, many of which will include innovative robotics and components.

Perhaps what made the proposal standout is the school's inclusion of STEM professionals. Pearson has invited two community members to talk about how

STEM efforts through visits, social media posts, and newsletter articles.

Help us celebrate your great work by tagging the STEM hub! You can follow us on Facebook, Instagram, and Twitter for a glimpse of what we see every week.

Visit our STEM literacy blog, Growing Readers, for some STEM-spring books. We'd love you to contribute a recommendation!

I wish you a restorative holiday, because we are going to hit 2017 running with STEM programming that you won't want to miss. The menu and applications for the Iowa STEM Scale-Up Program will be released January 24th.

In addition, look for exhibits that connect STEM learning to careers at the NASA Downlink with the International Space Station on January 19th, and I'll Make Me A World in Iowa January 27th and 28th. That's just the first four weeks!

There is a little something STEM-y for everyone this spring: business, teachers, community members and youth.

Happy Holidays,  
Dr. Sarah Derry,  
SC STEM Regional Manager

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they use coding in their jobs. All students will either hear the speakers live or via Google Hangout.

The school also has a



comprehensive technology plan that continues to provide opportunities for coding and more.

"[Coding] is really hard. There are so many different levels," said Kaleb of Code Academy's free, online tutorial. "But it's also pretty cool."

Read more via local newspaper, [Journal Express](#). And learn more about this funding opportunity at [Iowa STEM](#).

## STEM Festivals

# Ms. Peters' Class Tests New Hub



Email: [scstemhub@drake.edu](mailto:scstemhub@drake.edu)



Facebook: [South Central Region](#)



Twitter: [@SC\\_Iowa\\_STEM](#)



Instagram: [sc\\_iowa\\_stem](#)

### Event Calendar:

Visit the [SC STEM Hub's calendar](#)!

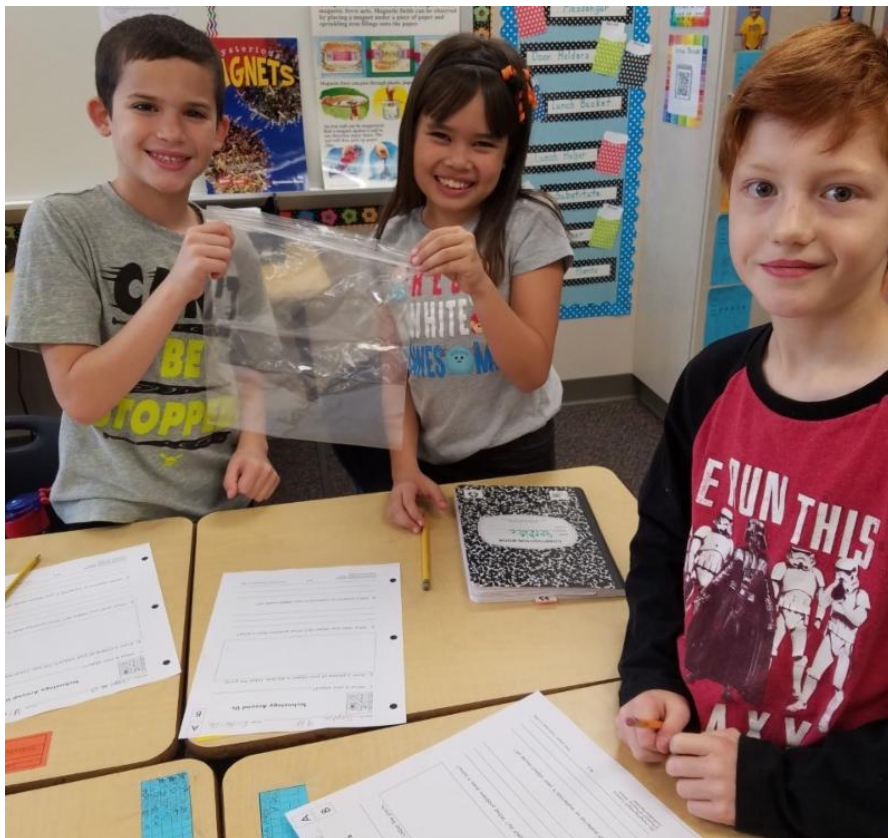
The South Central STEM Region is part of the Iowa STEM Council. Click [HERE](#) to learn more about the state-wide program.

## 2017 Fests: Exhibit or Volunteer!



**I'll Make Me a  
World**

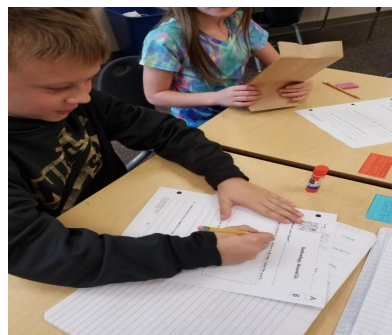




November was magnet month in Janie Peters' third grade classroom. She was first to check out the Hub's newest kit: EiE's Magnets and Transportation. Peters chose the first two lessons for the class and incorporated them throughout a two week period.

"One lesson was on different kinds of technology," said Peters. "Students learned that technology is anything we use every day to help make our lives easier. We looked at examples like pencils, plastic bags, staplers, and more, and we discussed the different steps engineers use to come up with new technologies."

Peters connected the EiE kit with a FOSS kit of a similar theme. "The class enjoyed learning about transportation engineers. We set up an intersection on the floor of our classroom to study how traffic



We are searching for I'll Make Me a World exhibitors for January 27-28. This is Iowa's largest African-American festival, drawing around 10,000 participants.



If you'd like to be a part of this important event, please email Dr. Sarah Derry at [scstemhub@drake.edu](mailto:scstemhub@drake.edu).

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## SCI/Metro-Area STEM Fest



Calling for exhibitors! We're hosting a spring festival with the Science Center of Iowa.

WHEN: April 4  
WHERE: Science Center of Iowa, DM  
TIME: 6-8 p.m.  
EXHIBITORS: [Click to register!](#)

Need more ideas or connections?  
Contact Dr. Sarah Derry at  
[scstemhub@drake.edu](mailto:scstemhub@drake.edu).



moves and what transportation engineers do to make the intersections we use in real life safer and more efficient," said Peters.

All Hub kits are available for checkout to formal and informal educators. Click [HERE](#) to see the whole list. Please email the Hub with questions: [scstemhub@drake.edu](mailto:scstemhub@drake.edu).

## Events

**Add these dates to your calendar!**

Dec. 27-30 -- [CIE Robotics Winter Camp for Kids](#)  
Jan. 18 -- [SC Regional STEM Advisory Board Meeting](#)  
Jan. 19 -- [IPTV/NASA Uplink Day](#)  
Jan. 24 -- [Scale-Up Applications Open](#)  
Jan. 27 -- [IMMAW Education Day STEM Fest](#)  
Jan. 28 -- [IMMAW Celebration Day Exhibit](#)  
Feb. 4 -- [Super Qualifier FIRST, Johnston John Deere](#)  
Feb. 20 -- [SC Regional STEM Advisory Board Meeting](#)  
Mar. 15 -- [SC Regional STEM Advisory Board Meeting](#)  
April 4 -- [SCI/SC Regional STEM Fest](#)

Spread the word about STEM EVENTS in your community!

Visit the [South Central STEM Calendar](#)

[To submit your STEM event, click here!](#)

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