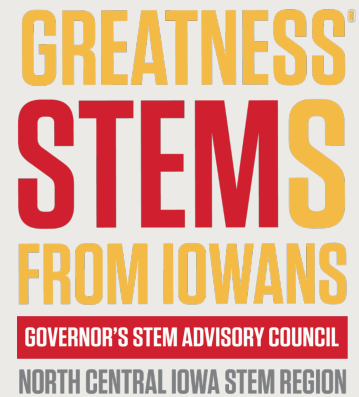




October, 2020

North Central STEM Region  
Monthly News



### In this Issue

Join us for VIRTUAL TechTalk North Iowa, 10/27

IT and Cyber Programs Receive STEM Seal of Approval

Insights from New Board Chair Kathy Rogotzke

### Cultivating a Skilled STEM Workforce - Join us for Virtual TechTalk October 27, 5 PM



North Iowans know the importance of STEM education and careers - and we're ready for the next steps. Educators and businesses are working together in innovative partnerships to cultivate a skilled STEM workforce. How can this benefit North Iowa? How can your organization get involved? We've invited an expert group of panelists to share their insights on STEM education and work-based learning.

#### Virtual TechTalk

Preparing the Future Workforce through  
Innovative Education-Business Partnerships

#### Panelists:

Steve Doerfler  
CEO at Metalcraft

Barb Schwamman  
Superintendent at Osage Community School District

### Updates for STEM Scale-Up Recipients

With all the challenges posed by the COVID-19 virus and the resultant uncertainties in education, the NC STEM Region would like to offer its support as educators adapt STEM Scale-Up programs or delay implementation of programs. Thank you for your patience around any delays in receiving your materials and pivoting to virtual training this year. Please reach out to the NC STEM Manager if you have not received your program materials by the end of October (kbergman@iastate.edu).

### IT and Cyber Programs Earn 2020 STEM Council Seal of Approval



Two STEM programs developed by Professor of Electrical and Computer Engineering Dr. Doug Jacobson and his team at Iowa State

Jeff Frost  
Executive Director of Professional and Technical  
Education at Waterloo Career Center

Attendees are eligible for a Sphero Mini At-Home Learning Starter Kit giveaway! All attendees will receive a STEM thermos coffee tumbler.

[Register Here](#)

## Statewide STEM Insights from New Advisory Board Chair – Kathy Rogotzke



The newly elected Chair of the NC STEM Advisory Board, Dr. Kathy Rogotzke, is serving her ninth year on the Board and has observed first-hand the impact of the STEM Council's programs in the state of Iowa. "STEM is now largely recognized and I believe valued more than it was in the past (say 10 years ago)," she says. She sees the increase in knowledge about STEM, the interest in STEM and wonderful resources that the STEM Council provides as a success of the STEM Council programs and outreach. As Chair of the Mathematics, Physical Fitness and Wellness Departments at NIACC, she enjoys watching students grow and showing students that STEM underpins or is used in many other disciplines.

"While there has also been an increased awareness and interest in reaching underrepresented groups in STEM - I still believe we have a ways to go," she adds. Dr. Rogotzke has seen first hand the impact that outreach has on underrepresented groups. In 2013, NIACC held a Women in STEM event to introduce high school girls to professional role models and STEM careers. "After the event I received a letter about the impact that it had on a high school student who previously had not considered a STEM area of study but now was planning on it," she says. She is also an Advisory Council Member for the Program for Women in Science and Engineering at ISU. When asked what her message around STEM is to those she interacts with, she says, "Importance of STEM in our world—the joy of being involved in STEM; the interconnections in STEM."

## At-Home STEM Resources

The STEM Bingo Challenge Board contains simple activities designed to inspire kids! Download your copy

University received the STEM Council's Seal of Approval. The Seal of Approval recognizes non-Council programs and events that are helping advance the goals of Iowa STEM.

The program, Security Literacy, is designed to help students become aware of cybersecurity issues and how to take steps towards mitigating these realistic security threats. The program contains materials for high school educators designed to be easy to understand and easy to use. The curriculum teaches students to relate information to real-world situations through class-based discussions, case studies, and classroom assignments.

The program, IT-Adventures, is designed to engage high school students in technology with curriculum that offers hands-on, real-world applications of STEM principles in a team-based setting. Students of all experience levels can join their school's IT-Adventures Club, led by educators and mentors, and select the venture of their choice: robotics, smart-IT and cyber defense.

More information about the program can be found [here](#) as well as videos on [Robotics](#), [Smart-IT](#), and [Cyber Defense](#)!

## 2020-2021 NC STEM Advisory Board

Jerry Chizek, Manson  
Lindsey Falk, St. Ansgar  
Ashley Flatebo, Garner  
Sara Nelson, Ames  
Michael Pedersen, Marshalltown  
Kristle Percy, Mason City  
Kathy Rogotzke, Mason City  
Sarah Rosenblum, Marshalltown  
Kay Schmalen, Clear Lake  
Camille Sloan Schroeder, Boone  
Matthew Stephan, Fort Dodge  
Kerry Weig, Nevada  
Nancy Woods, Boone  
Michael Young, Ames  
David Zrostlik, Garner

## Contact Information:

NC Regional Manager:  
Dr. Kelly Bergman  
Phone:  
515-203-7247

here:

[STEM Bingo Challenge](#)

The STEM Council has partnered with the Iowa Department of Education, AEA Learning Online, Iowa PBS and the Iowa Reading Research Center to develop a curated list of resources for students, parents and educators.

[Teachable Moment](#)

Iowa State Fair STEM activities and demonstrations that can be done at home:

[Watch Demonstrations](#)

[Activity Guide](#)

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ncstemhub.iastate.edu

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1259 Stange Rd  
Ames, IA 50011-1002

## Upcoming Events and Deadlines

**October 19**

Season 2 [STEM Essentials Podcast](#)  
Launch

**November 12**

STEM Council Twitter Chat  
[@IowaSTEM](#)

**October 22**

NC STEM Region Advisory Board  
Meeting 12-1:30 PM

**November 17**

NC STEM Region Advisory Board  
Meeting 12-1:30 PM

**October 27**

TechTalk North Iowa  
5-7 PM

Connect with us

