

# 2015 STEM BEST Event

FFA Enrichment Center  
1044 SW Prairie Trail Parkway  
Ankeny, Iowa 50023

## Wednesday, June 17, 2015

<p><b>9:00 to 9:15 a.m.</b> Foyer/Ballroom, Level 4</p>	<p><b>Registration – Continental Breakfast and Networking</b></p>
<p><b>9:15 to 9:40 a.m.</b> Conference Room 107</p>	<p><b>Welcome</b></p> <p>The Honorable Kim Reynolds Lieutenant Governor of the State of Iowa <i>Co-Chair, Governor's STEM Advisory Council</i></p> <p>Kristine Bullock, SE Regional STEM Manager Governor's STEM Advisory Council <i>STEM BEST Committee Chair</i></p> <p>Dr. Rob Denson, President Des Moines Area Community College <i>Governor's STEM Advisory Council, Executive Committee</i></p>
<p><b>9:40 to 10:10 a.m.</b></p>	<p><b>STEM BEST Awardees – Program Overviews</b></p> <p><u>Bettendorf/Pleasant Valley</u> – Tammy Chelf</p> <p><u>Cedar Rapids/College Community</u> – Dennis Becker, Shawn Cornally, Troy Miller and Dr. Trace Pickering</p> <p><u>Kirkwood/University of Iowa/Clear Creek Amana/College Community/Iowa City/Regina/Solon/Tipton/West Branch</u> – Dawn Bowlus and Dr. Leslie Flynn</p> <p><u>Northeast</u> – Alicia Christiansen</p> <p><u>Rock Valley</u> – Todd VanderVelde and Micah Weber</p>

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## Morning Sessions – 10:15 to 11:15 a.m.

<p><b>Room 107</b></p>	<p><b>Forming Business Partnerships and Relationship Management</b></p> <p><u>Facilitator</u>: Todd VanderVelde and Micah Weber (Rock Valley CSD), Dawn Bowlus (University of Iowa), Michelle Hill, Peg Armstrong-Gustafson and Vivian Le (Waukee CSD)</p> <p><u>Description</u>: The session will focus on how to strategically recruit business and community partners based on the needs of your program and the resources/expertise of your partners. Facilitators will also discuss ways to sustain valuable partnerships once they have been established.</p>
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<p><b>Room 114</b></p>	<p><b>Tracking In-bound and Out-bound Projects</b></p> <p><u>Facilitator:</u> Shawn Cornally, Dennis Becker and Troy Miller (Iowa BIG)</p> <p><u>Description:</u> Facilitators will showcase how the Iowa BIG program uses the BBQ platform to track business (in-bound) and student (out-bound) derived projects in a way that is manageable for the students, partners, and teachers.</p>
<p><b>Room 115</b></p>	<p><b>Recruiting Students in Underrepresented/Underserved Populations</b></p> <p><u>Facilitator:</u> Dr. Trace Pickering (Cedar Rapids CSD) and Dr. Leslie Flynn (University of Iowa)</p> <p><u>Description:</u> As the opportunity gap continues to widen between minority/low SES students and their more affluent peers, strategic effort needs to occur to break down barriers to quality STEM experiences. Discussion will include recruiting students and limiting barriers to participation, such as transportation and previous academic achievement.</p>
<p><b>Morning Sessions — 11:20 a.m. to 12:20 p.m.</b></p>	
<p><b>Room 107</b></p>	<p><b>Developing a Relevant Curriculum Driven by Industry Need</b></p> <p><u>Facilitators:</u> Dr. John Bedward (Buena Vista University), Dr. Leslie Flynn (University of Iowa), and Michelle Hill and Peg Armstrong-Gustafson (Waukee CSD)</p> <p><u>Description:</u> To best prepare our students for future careers that might not exist and to keep them connected to local industries, programs must continually evaluate their alignment to local industry needs. This session will focus on how districts work with their partners to develop curriculum and continuously reevaluate.</p>
<p><b>Room 113</b></p>	<p><b>Building Partnerships in Rural Iowa</b></p> <p><u>Facilitators:</u> Todd VanderVelde and Micah Weber (Rock Valley CSD) and Dawn Bowlus (University of Iowa)</p> <p><u>Description:</u> A large part of Iowa’s educational landscape is made up of rural school districts with limited local businesses. This session will focus on how rural school districts can capitalize on small, local businesses that have personal connections to the school district. Facilitators will also discuss how to tailor your program to specific industries in your community.</p>
<p><b>Room 114</b></p>	<p><b>Using Technology to Foster Partnerships</b></p> <p><u>Facilitators:</u> Maureen Griffin and Eric Hall (Des Moines Hoover High School)</p> <p><u>Description:</u> Preliminary research on successful STEM schools indicates that cultivating partnerships with industry, higher education, non-profits, museums, and research centers is important for engaging students in STEM learning through internships, mentorships, interdisciplinary project-based learning, and early college experiences. (Means, 2008; NRC, 2011) Come to this session and learn how Hoover High STEM approaches partnerships and builds relationships outside school. Participants will be introduced to a tool that provides an easy entry into adding value to your new or existing programs by examining teacher/partner interactions and program structures.</p>
<p><b>Room 115</b></p>	<p><b>Staffing</b></p> <p><u>Facilitator:</u> Dr. Trace Pickering (Cedar Rapids CSD)</p> <p><u>Description:</u> Developing relationships needed to sustain strong community partners cannot easily be done by a single educator with a full class load. This session will share the experience of Cedar Rapids CSD and College CSD to support a business development position and the sharing of cross-disciplinary staff with modified schedules.</p>

## Transition to Lunch — 12:25 to 1:15 p.m.

**Large Conference  
Room 107**

### **STEM BEST in the Iowa STEM Landscape**

— *Dr. Jeff Weld, Executive Director, Iowa Governor's STEM Advisory Council*

### **The Next Generation of Iowa STEM (Group Discussion)**

## Afternoon Sessions — 1:20 to 2:20 p.m.

**Room 113**

### **Logistics of Getting Students into Businesses**

Facilitators: Tammy Chelf (Bettendorf/Pleasant Valley CSD)

Description: Before sending students into local businesses, districts must tackle the issue of insurance liability and minimum age requirements. The session will focus on the lessons learned from Bettendorf CSD and Pleasant Valley CSD through their long history of career academies.

**Room 107**

### **Student Assessment**

Facilitator: Dr. John Bedward (Buena Vista University), Dr. Leslie Flynn (University of Iowa), and Shawn Cornally (Iowa BIG)

Description: This session will focus on the use of portfolios and standards based assessment/grading to measure student progress and course alignment.

**Room 115**

### **New Tech Network and Project Based Learning**

Facilitator: Dr. Lisa Remy, Dr. Laurene Lanich, and Drea Bocook (West Des Moines Schools) and Justin Miller (NTN Thought Partner)

Description: Facilitators will discuss the New Tech Network model and how the model is being implemented at the elementary level and scaled to the high school level.

## Afternoon Sessions — 2:25 to 3:25 p.m.

**Room 107**

### **Building Collaborations Across Districts**

Facilitator: Dr. Leslie Flynn (University of Iowa), Dr. Trace Pickering (Cedar Rapids CSD), Troy Miller (Iowa BIG)

Description: Facilitators will highlight the importance of cross-district collaborations from both the district and business perspective.

**Room 114**

### **Developing Partnerships with Higher Education to Offer College Credit**

Facilitator: Dawn Bowlus and Dr. Mark McDermott (University of Iowa) and Jon Weih (Kirkwood Community College)

Description: During this session, participants will explore how Kirkwood Community College, the University of Iowa, and seven school district partners have worked together to offer triple credit for the STEM Innovator course at the Kirkwood Regional Center at the University of Iowa.

**Room 115**

### **School as Hub for Your Community**

Facilitator: Corey Mohn (Blue Valley CAPS)

Description: Creating a learning environment that supports student engagement requires a personalized learning approach and tapping into non-traditional resources. Join a short presentation and interactive discussion around ways to make your school a hub for the larger community, engaging business and community partners in new ways in order to align students to their passions and interests.

## Next Steps and Closing — 3:30 to 4:00 p.m.

**Large Conference  
Room 107**

### **Closing Remarks**

**Kristine Bullock, SE Regional STEM Manager  
Governor's STEM Advisory Council  
*STEM BEST Committee Chair***