

Executive Committee Meeting 25 Iowa Governor's STEM Advisory Council

Sheraton West Des Moines Hotel | 1800 50th Street | West Des Moines

June 30, 2016 (Thursday) | 8:30AM to 9:45AM



Webster Room, Sheraton West Des Moines

8:00 to 8:30AM	Breakfast refreshments and Conversation
8:30AM	Roll Call, Executive Director Weld
8:32AM	<p>Opening Remarks from Co-Chair</p> <p>The Honorable Kim Reynolds, Lieutenant Governor of the State of Iowa <i>Co-Chair, Governor's STEM Advisory Council</i></p>
8:35 to 9:00AM	<p>Reports: FY2016 Financial Summary – vote; FY2017 Proposed Budget – vote; IT Program RFP responses – info ; Corporate Gifts Report – info; STEM Schools+Business Conference – briefing; STEM BEST Proposal – recommendation</p>
9:00 to 9:40AM	<p>Discussion (continuation): Iowa STEM Grand Challenges</p> <ol style="list-style-type: none"> 1. Major hurdles before us? (e.g., How can we double the number of STEM grads?) 2. Development horizons: A possible development committee of the Council (Rankin) 3. Sustainability horizon: STEM integration into other state priorities. (<i>STEM Programs hand-out</i>) 4. Post-secondary STEM Council space: Bridge Programs, Peer Tutoring, Faculty P.D., Scholarships—What works? Where can STEM Council contribute?
9:40 to 9:45AM	<p>Announcements by and for the good of the group</p> <p>Closing Remarks Dr. Chris Nelson, President and CEO of Kemin Industries <i>Co-Chair, Governor's STEM Advisory Council</i></p>

NEXT MEETING: December 14, 2016, 8:30 to 9:45am. Site TBA

Programs of Iowa's STEM Council Spring 2016

Regional STEM Network: Six regions, each operated by a regional STEM manager housed at a hub institution and each guided by a Regional STEM Advisory Board. School-business partnerships, regional communications, events and local implementations of Council programs.

1. **STEM Scale-Up Program.** Exemplary S-T-E-M programs in engineering, computers, energy, mathematics, basic science and more, provided to ~2,500 PreK-12 educators and ~100,000 children throughout the state.
2. **STEM BEST (Businesses Engaging Students and Teachers).** A total of 8 (so far) community collaborations involving school and business partnerships.
3. **STEM RLE (Redesigned Learning Environments).** A total of 13 re-designed 21st century learning spaces along with the preparation of educators capable of conducting student-centered, active, problem- solving instruction, making purposeful connections to local business partners.
4. **Iowa STEM Teacher Externships.** Six-week workplace immersions in summer professional development in local industries and businesses for STEM teachers in Iowa.
5. **STEM Festivals.** Engaging, free, hands-on educational experiences (45 last year across Iowa) for preK-12 youth and their families.
6. **I.O.W.A. STEM Teacher Award.** Kemin Industries sponsored award to honor certified K-12 teachers in Iowa who teach a science, technology, engineering and/or mathematics subject and who are inspiring Iowa's students to develop a passion for STEM subjects.
7. **Code Iowa.** Partnership with Code.org on the "Hour of Code" during national Computer Science Education Week. Some 800 Iowa schools have participated in an Hour of Code.
8. **Microsoft Imagine Academy.** A software and systems certification program that bridges the world of education with the world of work. 150 Iowa schools are involved, thousands of kids have earned certifications.
9. **STEM Seal of Approval.** Fourteen (so far) outstanding non-Council programs affiliated through common goals, high quality.
10. **STEM Teaching Endorsement.** Four universities (so far) with one more in development and at least 10 more working on it, producing STEM teachers.
11. **STEM @ State Fair.** Annually engages about 10,000 Iowans via dozens of exhibits, stage acts, vendor partners.
12. **STEM @ State Capitol.** Annually engages legislators via dozens of exhibit partners and corporate-sponsored lunch.
13. **Annual State STEM Summit.** Four-to-five hundred attendees learn from and contribute to Iowa STEM.
14. **STEM Schools + Business Innovation conference.** A uniquely Iowa brand of partnerships that support local schools to develop workplace-based learning experiences with local employers.
15. **STEM Messaging Campaign.** With Strategic America, staff training in communications, print, radio, video and television creations, event promotions, branding and more.
16. **OTHER RESOURCES PRODUCED BY STEM COUNCIL**
 - a. **Business Engagement Toolkit.** Programs and guidelines that engage business and education in STEM.
 - b. **STEM Program Evaluation & Report.** Conducted by a consortium of evaluation centers at the University of Northern Iowa, the University of Iowa and Iowa State University.
 - c. **STEM On-line:** Website - daily maintained and updated array of resources, data and information. Twitter, Instagram, Facebook communication platforms updated routinely, frequently.
 - d. **STEM Video Library.** A growing array of public awareness videos on YouTube at <https://www.youtube.com/user/iastem>.
17. **Active Working Groups:** Focused on Council priorities — Computer Science, Ag. Science, Counselors, Volunteering, Arts, Informal/Nonformal, 4-year and Community College connections, youth voice and others convened as needed (e.g., proposal or award reviewers, website design, broadband, event planning, etc.).
18. **Grants.** STEM co-leads a Natl. Gov.'s Assoc. Work-based Learning Policy Academy with the IA. Dept. of Ed. STEM has two grants in operation from the National Science Foundation – for evaluation (\$1.2M) and for Externships (\$1.3M). More to come!