



PUBLIC MEETING NOTICE
NORTHWEST STEM ADVISORY BOARD TO MEET

Monday, November 13, 2017
SERT Building, Iowa Lakes Community College
2421 7th Ave South, Estherville

Members in Attendance: Kathleen Bottaro, Benjamin Bouza, Eric Forseth, Linda Gray, Ginny Gunderson, Kiana Johnson, Jordan Menning, Teresa Putnam and Brenda Welch, and Mark Zabawa.

Guests: Jeff Weld, Executive Director of the Iowa Governor's STEM Advisory Council, Robert Leifeld, Vice President of Administration at Iowa Lakes Community College and Janet Leifeld, NW Iowa Regional STEM Support

Members Absent: Teresa Alesch, Derek Brower, and Beth Bunkers

Agenda

Tour of SERT Building – Dan Lutat,

The Sustainable Energy Resources and Technology (*SERT*) Center at Iowa Lakes Community College was designed 2014 to house more advanced training, from wind and solar to HVAC and geothermal. Initially designed for light manufacturing, the abandoned building was re-purposed as an example of sustainability, with the following design concepts incorporated: daylighting system, radiant heated slab floor, geothermal heating, LED lighting, and solar powered rooftop cooling units. Students are able to study the various design components of the building as well as utilizing the 70-ton nacelle housed in the atrium for educational purposes. Included in the building is the Climb Training Center, which provides training for professionals for US and European climbing certification and [WindTest North America](#), the North American branch of the German company that provides consultation and testing for wind project designs.

Festival Updates

The Healthy Living STEM Fest was held in Sheldon at Northwest Iowa Community College on November 4. Mary Trent presented 4 sessions at the event on healthy drink options. Beth Bunkers, NW STEM advisory board member, is currently working on a grant that would award ISU Extension Offices with a sets of heart monitors.

- Advisory board members are encouraged to sign up as volunteers at upcoming STEM festivals and events using link provided.
- Members are also encouraged to add suggestions to the List of Potential presenters for STEM events. Individuals may be local, with the state or residing outside of Iowa.

- December 28 – Winter STEM Fest, DMACC (Carroll). Plans are falling into place for this new event, with 8 of the 10 presenter positions filled. The city of Carroll will provide a snow plow for students to study plow designs.
- Energy Bash, Spencer – Currently looking for space at the Spencer Campus of ILCC as site for this event. Rather than present at multiple site this spring, planners hope to hold Energy Bash at one larger location.
- The following information will be added to the Festival Planning Spreadsheet – new or repeat event, main sponsor or supporting sponsor.

STEM BEST Update

19 programs throughout the state of Iowa received the STEM BEST award this fall. Over 150 business partners were identified in the 19 applications.

NW Iowa STEM Region - Spirit Lake Middle School (Rick Reinking, applicant) received the STEM BEST award in the NW region, with plans to expand their maker space area and open it up for community partners. Plans are underway to set up an award ceremony with local media coverage.

In order to encourage more regional school districts to complete the application process, NW STEM management, with assistance from advisory board members, will provide more support in the application process. NW STEM advisory board members involved in the review process were: Dr. Eric Forseth, Ben Bouza, Beth Bunkers, Jordan Menning, Derek Brower, John Bedward, Brenda Welch, Kiana Johnson, Theresa Alesch.

STEM Teacher Award Update

Four educators within the NW Iowa STEM Region have completed the application process for the STEM Teacher award. Thank you to the following NW STEM advisory board members involved in the statewide evaluation: Jordan Menning, John Bedward, Nancy McDowell, Ginny Gunderson, Ben Bouza, Mark Zabawa, and Kathleen Bottaro. The evaluation deadline is December 15.

Scale-Up Award Timeline

School districts within the NW STEM Region that have not received a Scale-Up award have been identified. NW STEM advisory board members were, in particular the Scale-Up award process. Mary Trent also plans to visit these organizations.

- December 18 or 19 – 2018-19 Scale-up providers will be determined.
- January 22, 2018 – Scale-up provides announced. Application period opens for educators.
- March 5 – Deadline for submission of Scale-Up applications.
- March 6 – April 5 – Review of regional applications by NW STEM advisory board

A special thank you to the following advisory board members who assisted in the evaluation process for the 2018-19 Scale-Up programs: Jordan Menning, Ben Bouza, John Bedward, Brenda Welch and Kiana Johnson.

Advisory Board Meeting Schedule for 2018

Meeting invitations will be send out through Google Calendar. The meeting format will change with tours scheduled at the conclusion of the meeting.

- December 4, 2017 – Virtual meeting, 1pm.
- January 22, 2018 – Virtual meeting, 1pm. Will review the online Scale-Up application process so advisory board members can assist educators with completing the application.
- February, 2018 – No meeting in February. Advisory board members are encouraged to attend the STEM Day at the Capitol on February 14.

- March 26, 2018 – Spencer, 10. Tour Spencer’s STEM BEST site. Work on final selection of Scale-up awardees. (plans pending)
- April 20, 2018 – Briar Cliff College, 10 am. Combine STEM festival with board meeting (plan pending)
- May 11 – 10 am Lakeside Lab location. (plans pending)

Updates from Jeff Weld

- STEM Advisory Board Orientation was held in Des Moines in October. Attendees from the NW Region included Terri Putnam, Brenda Welsh and Ginny Gunderson.
- Regional STEM Advisory Board Mega-Meeting is scheduled for Friday, November 17 at Accumold in Ankeny. Advisory board members are invited to attend.
- Future-ready Iowa Alliance – Spencer STEM BEST pre-apprenticeship model is developing as a model for work-based learning.
- Computer science – Iowa Department of Education working group released recommendations for K-12 computer science standards in Iowa.
- Personnel – North Central Manager position ready to be filled. Communications position has been filled.

Upcoming Dates and Events

- November 17 - Regional STEM Advisory Board Mega-Meeting at Accumold in Ankeny
- December 4 – 10 am. NW STEM advisory board virtual meeting
- December 19 – Scale-up providers determined (publicly announced in January)
- December 28 – Winter STEM Festival in Carroll
- January 5 – Teacher Leaders Conference
- January 22 – Scale-Up providers announced. Application process opens
- February 4 – STEM Day at the Capital
- April 5 – Iowa Governor’s STEM Council Advisory Meeting

STEM Happenings

- GRIT Festival. Will be held in 2 locations in March - Northwestern College and Buena Vista University. Additional partners include ISU Extension and NW Iowa Regional STEM. Purpose is to help students develop “grit” when pursuing careers in a STEM field. Open to 9-12 grade students.
- NEFE’s High School Financial Planning Program (NWFPP). High school financial planning offered through ISU Extension. Also includes a teacher manual. Student works through the booklets. ISU Extension and Outreach Human Sciences Specialist Carol Ehlers will work with school districts free-of-charge. Order supplies for free online at www.HSFPP.org
- STEM resources available for educators. Check out [STEM Teaching Tools](#). PD information for educators can be found at [ACESSE](#) and [ACESSE50](#).
- NCRC (National Career Readiness Certificate). 765 students scheduled to test. School districts should reach out to Linda Gray for more information and to schedule test sessions.
- The Ag Stewardship Center just broke ground this week at Dordt College in Sioux Center.

Next Meeting – Monday, December 4, 2017. Virtual meeting, 10 am.