



Bringing together leaders
to positively impact
mathematics and science education in Iowa

Life Takes Math and Science and So Should You

Price Laboratory Field House - November 5, 2008

Agenda for the Day

8:30 - 9:00 a.m.	Arrival and Registration
9:00 - 9:15 a.m.	Welcome - IMSC rep & Dave Smith, Director-PLS
9:15 - 9:45 a.m.	Shannon Cdé Baca Internationally known teacher
10:00- 10:30 a.m.	Break out Rotation 1
10:40- 11:10 a.m.	Break out Rotation 2
11:20 - 11:40 a.m.	Break out Rotation 3
11:50 - 12:20p.m.	Lunch
12:20 - 12:50 p.m.	Speaker on Gorilla Marketing Rob Collins, Pella Corporation
12:50- 1:30 p.m.	Student discussions Yvette McCulley
1:30 - 1:45 p.m.	Developing a PLAN Jody Stone
1:45 - 2:30 p.m.	Teams work to write up their plan
2:30	Dismissed with water and popcorn for the ride home

Session 1: How to Market Successfully – Price Lab Fieldhouse

Description: This will be a large group presentation (1/3 of students) that presents the important ingredients in getting the message out on math and science.

Contact: Matt Kiernan, Pella Corporation Retail Marketing Manager, Pella Corporation

Goals: Engage students with the basic fundamentals of defining your message & options for marketing

Session 2: A Platform to Engage Your Science Worldview - Room 148

Contact: Aimee Langager, Program Coordinator of the Iowa Learning Center Science Center of Iowa, Des Moines, Office - 515-274-6868 x 295, aimeel@sciowa.org

Goals: Engage students with the basic fundamentals of museum exhibit design
Initiate the design of their own exhibit or interactive component

Session 3: Did You See That? Pathways to a Career in the Public Health Laboratory – Room 152

Contact: Beth Hochstedler, Training and Outreach Coordinator, University of Iowa Hygienic Laboratory, Iowa City Office - 319-335-4303, beth-hochstedler@uiowa.edu

Goals: Explore careers in public health
Learn about the role of a public health laboratory as an essential service to each state

Provide a fun and interactive game that can played in STEM clubs/groups

Session 4: University of Iowa Gross Anatomy 101 – Room 153

Contact: Jackie Williams, Director of Mini Medical School Programs, University of Iowa Carver College of Medicine, Iowa City Office – 319-384-3025, jackie-williams@uiowa.edu

Goals: Explore careers in health care and biomedical research
Discuss the important role STEM plays in health care and biomedical discovery
Provide an engaging and intriguing video and learning points that can be shared with students' home STEM clubs/groups

Session 5: Project Lead the Way – Room 253

Description: Project Lead the Way makes math and science relevant for students by engaging them in hands-on, real-world projects, students understand how the skills they are learning in the classroom can be applied to everyday life.

Contact: Rebecca Whitaker, K-12 Outreach Coordinator, University of Iowa College of Engineering, Iowa City, rebecca-whitaker@uiowa.edu, 319-335-5706 and Jason Taylor, Kirkwood Community College, Math/Science Department Coordinator, jtaylor@kirkwood.edu, 319-298-7683.

Session 6: The importance of Clean Water -- what you can do to save your world. – Room 230

Description: Engineers for Sustainable World (ESW) will be presenting on the importance of clean water. ESW will show students how they can make a difference in their world.

Contact: Rebecca Whitaker, K-12 Outreach Coordinator, University of Iowa College of Engineering, Iowa City, rebecca-whitaker@uiowa.edu, 319-335-5706

Presenter: Tom Rhoads, Civil Engineering student, The University of Iowa. Iowa City, Iowa.

Session 7: Developing a First Robotics Team – Room 132 (Band room)

Contact: Kenton Swartley, project/teacher sponsor, swartleyk@cedar-falls.k12.ia.us 319-553-2500 ext 2615, students: Jennifer Hurban, Bob Guetzlaff, Chris Guetzlaff, and Hannah Easton.

Goals: Learn from a team of experts the do's and don'ts of robotic team competition
Explore how to develop a team in your school and the advantages of team participation.

Session 8: Ways to Develop a Math Club and/or Market Your Program – Room 132 (Orchestra)

Contact: Sharon Jaeschke, Prairie Valley High School, jaeschke@gowrie.12.ia.us, 515-352-3142 and Joann Kenny, Hartley-Melvin-Sanborn High School, jkenny@hartley-ms.k12.ia.us

Goals: Learn how to develop increase math and science participation in your school through developing a mathematics or science club.
Learn how to market math and science at your school from experienced teams of teachers and students.

Session 9: Making A Video to Promote Mathematics and Science – ICN room

Contact: Devin Schwiesow, St. Ansgar High School, dschwiesow@st-ansgar.k12.ia.us, 641-713-4720 and students: Rachel Freeman and Dillion Follmuth, Barb Bates, Waverly-Shellrock High School, bdbates@webiowaplus.net, 319-352-2087 and students, and Lynn Dykstra, Northern University High School-PLS, lynn.dykstra@uni.edu

Goals: Learn how to increase understanding of mathematics and science through the development of a promotional video.
Learn how to develop a promotional video to market YOUR math and science program.
Understand the fair use guidelines for using images, video, and/or music in your video.

Session 10: Getting Students Involved in STEM Competitions – Room 130

Contact: Peg Barbour, Ames High School, Science Olympiad, pbarbour@email.ames.k12.ia.us, Marcey Seavey, Iowa Junior Academy, marcene.seavey@uni.edu, and Joye Walker, Iowa City West High School, Walker.Joye@iccsd.k12.ia.us, and students:

Goals: Learn how to excite students in science and mathematics through competitions.
Increase involvement in mathematics and science outside the classroom.

Session 11: Manufacturing: Molding Today's Society – Room 248

Contact: Wendy Kleve, wkleve@gmail.com, Manufacturing Engineering Intern, Lennox Industries.

Goals: Explore careers in Manufacturing and Industrial Engineering
Learn the process of manufacturing even simple products
Engage students in a hands-on manufacturing activity that can be relayed to students in their STEM clubs/groups

This event is sponsored by the Iowa Mathematics and Science Coalition (IMSC). The IMSC has been working over 20 years bringing together leaders in business, government, education, and communities to positively impact and influence mathematics and science education in Iowa. This event is possible through funds provided by Rockwell Collins, Pella Corporation, Hy-Vee, Iowa Business Council, Iowa Health System, Iowa Public Television, John Deere Waterloo Operations, the University of Northern Iowa, Price Laboratory School, and a grant from the Iowa Mathematics and Science Educational Partnership.¹

¹ The Iowa Mathematics and Science Education Partnership (IMSEP) is a state funded initiative led by the University of Northern Iowa, in partnership with Iowa State University and the University of Iowa. IMSEP's goals are to improve mathematics and science performance of Iowa students; to prepare more high quality mathematics and science teachers for Iowa's schools; and to promote statewide collaboration and cooperation.

2nd Annual

Iowa Student STEM Symposium



IOWA MATHEMATICS *and* SCIENCE COALITION

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