

## **2 Technology Workshops for Gr. 5-12 Math & Science Teachers**

**Location:** 104 Michigan Tech's Great Lakes Research Center

**Lunch or Dinner provided** for each workshop

**To register:** please contact Loret Roberts at [loret@copperisd.org](mailto:loret@copperisd.org) or 482-0331.

**No Experience Necessary!**

### **Workshop 1: The Power of Prototyping: Increasing Student Engagement in Science and Math Using Progressive Technology**

**Date/Time:** 8:30 am - 3:30 pm, Friday, February 28, 2014

**Registration Deadline:** February 24, 2014

**Credit:** 6.0 SCECHs available OR teachers may earn one graduate credit from Michigan Tech by attending BOTH workshops (MUST register before Feb. 25): MTU ED 5460 Special Topics in Env Sciences CRN 15157 (must attend 2/28, 3/12 & 4/16; tuition @ \$514/credit with teacher certification uploaded)

**Description:** Teachers will participate in structured engineering design challenges using the newest technologies of 3D printers, mobile devices, and open source digital controllers. These rapidly evolving tools have opened a new world for students to learn and create while integrating Math and Science standards. The workshop will give teachers a chance to interact with these technologies to discover potential ways of using them to achieve traditional learning objectives.

### **Workshop 2: Web and Mobile Apps for Science & Math Instruction**

**Date/Time: Part I:** 8:30-3:30, Wednesday, March 12, 2014

**Part 2:** 4:15-8:00, Wednesday evening, April 16, 2014

**Registration Deadline:** March 7, 2014

**Credit:** 9.0 SCECHs available OR teachers may earn one graduate credit from Michigan Tech by attending BOTH workshops (MUST register before Feb. 25): MTU ED 5460 Special Topics in Env Sciences CRN 15157 (must attend 2/28, 3/12 & 4/16; tuition @ \$514/credit with teacher certification uploaded)

#### **Description:**

Apps for education are proliferating at an incredible rate. This workshop will take some time to examine overall trends in web and mobile applications that are designed for the math and science teacher. The most current and useful apps will be presented for teacher review. Teachers will engage in activities that use some of the most progressive methods

for students to collect and analyze lab and field data with Android and iOS devices.

Collaborative activities will focus on designing lessons for effectively adding mobile and web applications to existing classroom curriculum. Teachers will have the opportunity to pilot and present their lessons with the group on the evening of April 14. Instruction and discussion will accommodate all skill levels.

**Presenter for both workshops (Power of Prototyping and Web & Mobile Apps):**

Chad Norman, Science & Technology Education & Outreach Specialist, Center for Science & Environmental Outreach, MTU. Chad is a certified K-8 Teacher; Member, Consortium of School Networks National Committee on Emerging Technologies in Education, and Software & Information Industry Association Judge for Best Mobile Application in Education