

## LEGO Engineering Conference in Enfield, CT April 4<sup>th</sup>, 2008

### List of Presentations

#### **Terry Green: “With what I know today, what would I have done different when I started”**

Terry Green teaches elementary grades at Lincoln Elementary School in Lincoln, MA.

[tgreen@lincnet.org](mailto:tgreen@lincnet.org)

#### **Thomas Hargreaves: “Creativity and the Design Process for 7<sup>th</sup> grade”**

Thomas teaches robotics in grades 6 – 8 at Edward R. Martin Middle School, East Providence, RI.

Presentation project: Students have to design and then create a machine that can accomplish a variety of tasks using light and touch sensors.

[thargreaves1@hotmail.com](mailto:thargreaves1@hotmail.com)

#### **Rick Dustin Eichler: “Mission to Mars: Data logging with the RCX”**

Rick Dustin-Eichler is the technology integration coordinator for the Windsor Central Supervisory Union in Woodstock, where he serves eight schools that span grades kindergarten through 12<sup>th</sup> grade.

Teachers frequently talk about how meeting "the standards" is forcing them to move away from the exciting activities that provide their students with an opportunity to connect to the material. The Mission to Mars unit was created to provide classroom teachers with a stimulating hands-on unit that uses RoboLab's data collection tools to meet math standards that surround concepts of algebra, measurement, and data.

[rdustineichler@wcsu.net](mailto:rdustineichler@wcsu.net)

#### **Kevin Lavigne: “Teaching Chemistry and Physics Problems for seniors with NXT-G”**

Kevin Lavigne teaches Honors Chemistry, Genetics and Evolution, and C.A.P.P.S at Hanover High School, NH.

Learn how I use LEGO MINDSTORMS kits to create a project-based learning environment that fosters development of teamwork, structured programming, technical writing and technical drawing skills, as well as intuition about physical systems.

[kevin.lavigne@dresden.us](mailto:kevin.lavigne@dresden.us)

#### **Anne Marie Dyer: “LEGO MINDSTORMS: Engineering for ALL Students”**

Anne Marie Dyer teaches grades 7<sup>th</sup> and 8<sup>th</sup> Math / Science / Technology Engineering at Cyrus Peirce Middle School, Nantucket, MA.

All students in the 8<sup>th</sup> grade use Lego Mindstorms and ROBOLAB Software while learning engineering standards. This course is repeated over the course of a year, in 30 day segments for 40 minutes per day. Students use the design process, by meeting challenges, which intensify in difficulty, and / or design specification. Students must communicate their design solution, and can not move on to the next challenge until the previous challenge is met

[dycera@nps.k12.ma.us](mailto:dycera@nps.k12.ma.us)

#### **Mike Bouchard: “Taking it to the Streets; Mindstorms Outside the Classroom”**

Mike recently retired after twenty five years of teaching elementary grades and an additional six years teaching middle school Technology Applications/ROBOLAB in South Kingstown, R.I. Since retiring in June 2007 he has concentrated on setting up several robotics camps and after school programs in Southern Rhode Island.

[mrbou@cox.net](mailto:mrbou@cox.net)

#### **Kristen Bethke: “Transforming an Elementary Science Unit with a LEGO Engineering Project”**

Kristen is enrolled as a Doctoral Student in Science & Engineering Education at Tufts University. She works mainly on an NSF funded project exploring how LEGO engineering design helps elementary school students learn specific science concepts.

[Kristen.bethke@tufts.edu](mailto:Kristen.bethke@tufts.edu)

#### **Cathy Helgoe: “Recommendations from Teachers Using Hands-on Materials for STEM”**

Cathy Helgoe develops science, technology and other learning materials for LEGO Education, a global division of the LEGO Group. She has been involved with robotics projects, including LEGO MINDSTORMS, ROBOLAB, Control Lab and LEGO TC logo.

[cathy.helgoe@LEGO.com](mailto:cathy.helgoe@LEGO.com)