



comets

(Career-Oriented Mathematics, Engineering,
Technology and Science)

COMETS IS OFFERING TWO FREE TRAINING SESSIONS (Earn 6 Professional Development hours for each session) plus FREE materials

SRED 851-01 A World in Motion (AWIM) – Motorized Toy Car (Grades 6-8)

AWIM, developed by the Society of Automotive Engineers (SAE) Foundation, brings math and science principles to life in the context of an engineering design challenge for middle school students through highly interactive and innovative learning experience that incorporate the laws of physics, motion, flight, and electronics. In the “Motorized Toy Car” session, students develop new designs for electric gear driven toys. The students are involved in writing proposals, drawing sketches, and working with models to develop a plan to meet a specific set of design requirements. Force and friction, simple machines, levers and gears, torque and design are the core scientific concepts covered.

Date: Thursday, October 23, 2008

Time: 8:30 a.m. to 3:30 p.m.

Location: OCC, College Center, Conference Room A&B

Cost: FREE (Breakfast and lunch included)

SRED 852-01 Building Math – Amazon (Grades 6-8)

Building Math is a modular curriculum for grades 6-8 mathematics studies that integrates math concepts, algebraic reasoning and engineering through an engineering design challenge in a realistic story context. In the “Amazon” session, students will join a community service team on a mission to the Amazon Rainforest to investigate, and hopefully solve, the problems of the indigenous people group known as the Yanomami. This unit covers the following three design challenges:

- **Malaria Meltdown:** Design a medicine carrier that can safely transport malaria medicine while keeping it cool in a tropical climate.
- **Mercury Rising:** Design a water filter system to remove mercury from a river.
- **Outbreak:** Design a virus intervention plan to contain the spread of the flu.

Date: Friday, November 14, 2008

Time: 8:30 a.m. to 3:30 p.m.

Location: OCC, College Center, Conference Room A&B

Cost: FREE (Breakfast and lunch included)

**PRESENTED BY STEVENS INSTITUTE OF TECHNOLOGY
CIESE PROGRAM**

**OCEAN COUNTY COLLEGE
SCHOOL RELATIONS
College Drive, PO Box 2001
Toms River, NJ 08754**

REGISTRATION FORM

Name:

**Home
Address:**

**City/State/
Zip Code:**

Home Phone: () **Work Phone:** ()

Date of Birth:

School District:

Check Workshop(s) Attending:

**SRED 851-01 A WORLD IN MOTION –
MOTORIZED TOY CAR
Thursday, October 23, 2008 8:30AM – 3:30PM**

**SRED 852-01 BUILDING MATH – AMAZON
Friday, November 14, 2008 8:30AM – 3:30PM**

**COST: FREE (Breakfast and lunch included)
(Ocean County Educators Only)**

**Ocean County College
School Relations
College Drive, PO Box 2001
Toms River, NJ 08754-2001
Phone (732) 255-0477 Fax (732) 255-0475
www.ocean.edu**