

Teacher/Coaching Workshops 2009



MATHCOUNTS[®]

*Middle School Mathematics
Instructors: Dr. Peter Turner
and Dr. Kathleen Fowler*



*Middle School Science Teachers
High School Science Teachers
Instructors: Mike Ramsdell
(H.S.) and Dave Lennox (M.S.)*



*HS Mathematics Teachers
Instructor: Dr. Kelly Black*



*High School Mathematics
Teachers
Instructor: Dr. Kathleen Fowler*

September 22, 2009 8:00-3:00 Seaway BOCES Adult Ed.

MATHCOUNTS is a national math enrichment, coaching and competition program that has promoted middle school mathematics achievement for the last twenty-five years.

October 7, 2009 8:00-3:00 Clarkson University

Science Olympiad comes in many shapes and sizes to fit all your needs. In grades 6-12, Science Olympiad functions much like a football or soccer team, requiring preparation, commitment, coaching and practice throughout the year. Each year, a portion of the events are rotated to reflect the ever-changing nature of genetics, earth science, chemistry, anatomy, physics, geology, mechanical engineering and technology. By combining events from all disciplines, Science Olympiad encourages a wide cross-section of students to get involved. Emphasis is placed on active, hands-on group participation.

September 15, 2009 8:00-3:00 Seaway BOCES Adult Ed.

Moody's Mega Math Challenge: Each school may enter as many as (2) teams comprised of three (3), four (4), or five (5) high school juniors or seniors from the same school. Teams solve an open-ended, realistic, and challenging modeling problem focused on real-world issues. Student teams download the Challenge problem from the website and work to solve the problem on their own, at the place(s) of their choice, and on the day of the Challenge weekend (Saturday or Sunday) that they selected at the time of registration.

September 15, 2009 8:00-3:00 Seaway BOCES Adult Ed.

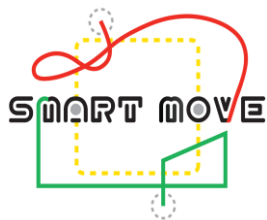
COMAP is an international mathematics competition HiMCM (High School Mathematical Contest in Modeling). This competition is sponsored each year by COMAP, Consortium for Mathematics and its Applications. It is a highly rigorous 36 hour competition in which teams work on a real-world problem that requires high level mathematical problem solving skills as well as communication and organization skills.



September 29, 2009 8:00-3:00 Seaway BOCES Adult Ed. – Grades 9-12

With the theme, "Water, Water, Everywhere" the Junior Engineering Technical Society (JETS) launches its annual **TEAMS** competition for high school students throughout the country. The theme-based engineering competition provides students in grades nine through 12 with the opportunity to make real-world connections between math and science to actual engineering challenges. With the release of the National Academy of Engineering's (NAE) Grand Challenges for Engineering, the emphasis on providing access to clean water became the main focus for the competition.

Teachers can register for all workshops by going to: www.mylearningplan.com



FLL Grades 4-6
FTC Grades 7-12
Instructor: Dr. Jim Carroll

October 13, 2009 8:00-3:00 ROBOTICS in TAC 208 Clarkson University - Clinic for FLL and FTC coaches and their teams on Tuesday, October 13th, from 8am to 3pm in TAC 208 on the Clarkson campus. The intent is to have coaches bring a small number of their key programmers so that they can get hands-on feedback from Clarkson students and faculty.

Can **FIRST LEGO League teams** transform the way we look at transportation? The key to the 2009 "Smart Move" Challenge is accessing people, places, goods and services in the safest, most efficient way possible. In this journey, teams will consider many modes of transportation beyond their daily routine and streamline their options by making smart moves!

FTC (FIRST TECH CHALLENGE) is designed for those who want to compete head-to-head, using a sports model. Teams of up to 10 students are responsible for designing, building, and programming their robots to compete in an alliance format against other teams.



October 20, 2009 – 8:00-3:00 Seaway BOCES Adult Ed.
Jr. Lego Workshop for teachers in Grades K-3 interested in Coaching Jr. Legos or learning more about teaching math and science using Legos in the classroom.

CREATING ENERGY SMART STUDENTS

Integrate energy education into your lesson plans!

- Education With An Emphasis on Energy, Economics, Efficiency, and Environment
- Addresses Energy Concerns Relevant to Students' Life And Experiences
- **FREE Instructional Materials**
- NYSSED Standards Aligned - Math, Science, Technology, Social Studies, English Language Arts, and Family and Consumer Science
- Professional Development Credit
- Engaging and Fun Hands-On Activities

October 27, 2009 – 8:00-3:00 Seaway BOCES Adult Ed. - A **NYSERDA Energy Workshop** for elementary teachers on Creating Energy Smart Students.

September 23, 2009 – IMPETUS Coaches and Students – First Clarkson University Visit – 3:45-5:30 p.m.

The IMPETUS for Career Success grant is to provide math and science enrichment opportunities, career exploration and higher education experiences to students in grades 7-12 who are economically disadvantaged. All schools should have an IMPETUS Coach and enroll new students at the beginning of the school year. Please contact Ellen Glasgow at eglasgow@sllboces.org for more information and eligibility requirements.



For more information contact
 Ellen Glasgow at:
eglasgow@sllboces.org or
 Mike Montgomery at:
mmontgomery@sllboces.org



Integrated
 Mathematics &
 Physics for
 Entry
 To
 Undergraduate
 STEM

Katie Fowler & Peter Turner
 Department of Mathematics
Michael Ramsdell & David Wick
 Department of Physics



IMPETUS
 for Career Success
 Funded by NY State Education Department