

2010 Central Jersey Modeling Institute: July 6th–22nd

Expanding modeling instruction throughout Central New Jersey

Montgomery Township School District is excited to host the Central Jersey Modeling Physics & Chemistry Institutes in the Princeton area in summer 2010. Modeling Instruction in physics and chemistry is a research-based reform effort initiated at Arizona State University. Modeling Instruction in physics was the only high school science program recognized as exemplary by the U.S. Department of Education (2001). It has been implemented in classrooms throughout the country and has been shown to produce dramatic improvements in student learning. Modeling Instruction is a coherent and consistent method of teaching physical science, physics, and chemistry.

The 2010 workshops include the mechanics units of the modeling physics instructional resources, and a second workshop will be held on modeling chemistry. Instructors of physics, chemistry, physical science, biology and earth science are welcome to attend. The summer 2010 workshops are designed for physics and chemistry instructors at all levels. We urge pre-service teachers to attend, too.

Workshop goals:

- 1) improve both content and pedagogical knowledge in physics or chemistry by incorporating the modeling cycle, inquiry methods, critical and creative thinking, cooperative learning, and effective use of classroom technology in instruction
- 2) enhance student learning and get students more excited and articulate about science.
- 3) establish a local community of support for teachers who use the modeling approach.
- 4) use research instruments to guide teaching practice .
- 5) address the implementation of standards-based instruction.

To learn more about Modeling Instruction, visit: <http://modeling.asu.edu/>

More details about the workshop:

- July 6-22nd, 2010 at Montgomery High School, Skillman, NJ
- 8:00 AM – 4:00 PM (Week 1:T-F, Weeks 2&3:M-Th)
- Two follow-up evening sessions to help with classroom implementation during 2010-11.
- Cost: \$600.00 (less if we get state funding: keep in touch!) - for possible funding grants, see http://modeling.asu.edu/MW_nation.html and <http://modeling.asu.edu/MNS/MNS.html>
 - **Modeling Workshops qualify for school district NCLB Title II-A funds**
- The workshops may also be taken for graduate credit through Rider University.
- **Physics Workshop Leaders:**
 - Craig Buszka (cbuszka@mtsd.us) & Jason Sullivan (jsullivan@mtsd.us)
- **Chemistry Workshop Leaders:**
 - Donghong Sun (dsun@mtsd.us) & Lisa Chedid (lchedid@mtsd.us)

Questions? contact Jason Sullivan jsullivan@mtsd.us , 609-466-7602 x 6569 (office).