
For Further Information on
Modeling

<http://modeling.asu.edu>

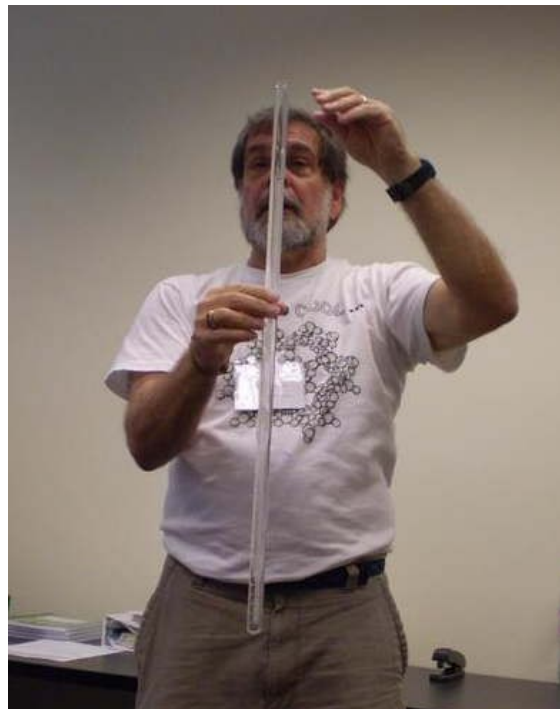
Registration:

Applications available:
December 15, 2011

Application Deadline:
May 1, 2012



*Whiteboarding sharing
session.*



**SOUTH JERSEY
SUMMER MODELING INSTITUTE IN PHYSICS,
CHEMISTRY, AND BIOLOGY
AT CLEARVIEW REGIONAL HIGH SCHOOL**

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**CLEARVIEW REGIONAL
HIGH SCHOOL**

**SOUTH JERSEY
MODELING
INSTITUTE IN
PHYSICS,
CHEMISTRY,
AND BIOLOGY**



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Modeling Instruction in Science



Teacher whiteboarding

What is modeling instruction?

Initiated and developed by practicing secondary science teachers in the mid-1990s, modeling instruction is an inquiry-based, hands-on teaching method in which students:

- design experiments, collect data, and develop concepts and models
- deploy these concepts and models to solve problems
- discard common naïve concepts
- demonstrate superior performance on standardized tests

Modeling instruction is widely recognized as a exemplary approach to science teaching:

- In 2000, the U.S. Dept. of Education recognized Modeling Instruction as one of seven exemplary or promising programs nationwide out of 134 reviewed programs, and in 2001 it designated Modeling Instruction as one of only two exemplary programs out of 27 reviewed programs.
- Three modeling teachers have received the prestigious Shell Science Teaching Award.
- Several modeling teachers have received the Presidential Award for Excellence in

2012 WORKSHOP DATES AND TIMES



BIOLOGY:

JUNE 20 - JULY 6
EXTRA 2-DAY TRAINING IN THE FALL IS OPTIONAL (DATES TBD)

CHEMISTRY:

JUNE 25—JULY 13

PHYSICS:

JUNE 25—JULY 13

LUNCH (NOT PROVIDED)

FROM 12:00PM-1:00 PM

CLASS HOURS

MONDAY—FRIDAY 9AM-4PM

NO SESSION ON JULY 4



What is a modeling workshop?

In physics workshops an experienced, nationally-recognized modeler takes participants through several “modeling cycles” in hands-on/minds-on experiences. Working closely with colleagues, participants practice teaching students to reason from data and to develop, modify, and deploy scientific models. Early-, mid-, and late-career teachers typically find modeling to be a seminal approach that influences their practice throughout their careers.

What is expected of participants?

Teachers commit to attending every day during the 3-week institute. Participating school districts pay a registration fee of \$850 per teacher for Modeling Biology, \$750 for Physics, and \$600 for Chemistry. Lodging is available (see application for more information).



