



Teacher Support

- Up to 40 in-service teachers (20 in physics; 20 in chemistry) receive a \$1,000 stipend financed by Corning Incorporated.
- Participants receive a catered luncheon at all full-day workshop sessions.
- Participants receive follow-up/support sessions financed by school district support fees (October 18–19 and March 7–8).

Graduate Credit

Participants may register for 3 hours of graduate credit, applicable to a Master of Education at Mansfield University or elsewhere (optional; tuition fees apply).

Further Information on Modeling

<http://modeling.asu.edu/>

Applications

<http://mansfield.edu/modeling-application-2010.pdf>

Applications Available: January 15, 2010

Application Deadline: February 19 26, 2010

Acceptance Decisions: March 1, 2010

Modeling Instruction in Physics and Chemistry
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MODELING INSTRUCTION IN PHYSICS OR CHEMISTRY: SUMMER 2010





MODELING INSTRUCTION IN PHYSICS AND CHEMISTRY

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 superior approach to science teaching:

- In 2000, the U. S. Department of Education recognized Modeling Instruction as one of only 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 Math & Science Teaching.

2010 Workshop	
Dates	Times
June 28 – July 1	8am – 4pm
July 2	8am – Noon
July 6 – July 8	8am – 4pm
July 9	8am – Noon
July 12 – July 15	8am – 4pm
July 16	8am – Noon

2010-2011 Support Sessions	
Dates	Times
October 18 – 19	8:30am – 3:30pm
March 7-8	8:30am – 3:30pm

What is a modeling workshop?

In separate chemistry and physics workshops, experienced, nationally-recognized modelers take 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 attend and participate in all sessions (including the October and March support sessions). Participating school districts pay a support session fee of \$350 per teacher and guarantee professional release time for the support sessions. An administrator agrees to attend at least two hours of a summer session.

Co-Sponsors:

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