

ACASE

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Association
for the
Cooperative
Advancement of
Science and Education

Dear Colleagues and Friends,

ACASE, The Association for the Cooperative Advancement of Science and Education, invites you to join us for the first of a series of evenings of demonstration and conversation on the theme:

**Phenomenal and Model-based Approaches
to Science and Education.**

What are the pros and cons of teaching students by using models for representing scientific knowledge, or having them build concepts through direct inquiry into natural phenomena?

Come and experience being a student again, as veteran science teachers demonstrate some of their favorite lessons.

The first session will be held at 110 Spring Street, Saratoga Springs, on **Wednesday, April 16 at 7 p.m.** There will be two presenters.

Christian Sweningsen's presentation is entitled: "Cohesion and Hooke's Law: An Introduction to the Nature of Matter."

Tom Shiland's presentation is entitled: "The Use of an Assessment Probe to Improve Instruction on a Unit Related to Solutions in High School Chemistry."

Each demonstration will be followed by a question and answer session directed to highlighting the teachers' goals and their reasons for the choice of particular teaching methods. Three questions will be posed to the presenters:

- What do you intend for your students to learn?
- What do you believe is the best way to achieve these learning goals?
- How do you know how well your students have achieved the learning goals?

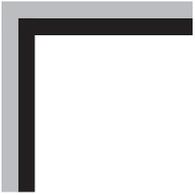
The evening will culminate in an open discussion between audience and presenters. Please join us for this opportunity to take a deeper look into the nature of science and science education.

Warm regards,
Leif Weatherby & Paul Zachos

p.s. There is a flyer for this presentation on the back of this invitation.

To reserve your place for this session, please contact **Leif Weatherby** at **583-4645** or **lweather@acase.org**

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Phenomenal and Model-based Approaches to Science and Education

A Deeper Look into the
Process and Substance of
Science Education

ACASE invites you to join us at 110 Spring Street,

Saratoga Springs, on **Wednesday, April 16**

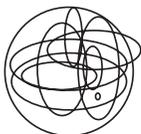
at **7 p.m.** for the first of a series of meetings on:

Come and experience being a student again as veteran science teachers demonstrate some of their favorite lessons. The demonstrations will be followed by questions, answers, and open discussion.

Presenters:

Tom Shiland: "The Use of an Assessment Probe to Improve Instruction on a Unit Related to Solutions in High School Chemistry." Tom Shiland is in his nineteenth year teaching chemistry at Saratoga Springs High School. He was a member of the group that wrote the new chemistry core curriculum for New York State.

Christian Sweningsen: "Cohesion and Hooke's Law: An Introduction to the Nature of Matter." Christian Sweningsen taught high school physics for nine years, and has led workshops in color perception. His particular interest is "science in context" — in the contexts of historical development, human experience, and clear thinking.



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