

Name:

Address:

E-mail:

Please check all that apply:

- Regular advance registration (\$50)
- Student advance registration (\$30)

- I'm interested in going to the Oregon Coast on Sunday, September 17.

- Please add my name and address to the SII mailing list.
- I'm interested in volunteering for SII.
- I'd like to make an additional gift of \$_____ to enhance the educational and research programs of SII.

SII is a 501(c)(3) non-profit organization. Your contributions are tax deductible to the extent allowed by law.

ADVANCE
REGISTRATION
ENDS
SEPTEMBER 1



PRESENTERS

All of our speakers share a strong interest in science education. Below are some of their other research interests:

Dr. Todd Duncan received a Ph.D. in astrophysics from the University of Chicago in 1997. He is currently president of SII and an assistant professor of science education at Portland State University. His research interests include cosmology and the foundations of thermodynamics and statistical mechanics.

Dr. Jack Semura is a physicist who studies complex systems. Originally from Hawaii, he obtained his Ph.D. in theoretical physics from the University of Wisconsin-Madison, and is a professor of physics at Portland State University.

Dr. Amanda Duncan received her Ph.D. in electrical engineering from the University of Illinois at Urbana-Champaign in 1996. She is currently a senior component design engineer at Intel Corporation. Her research interests include solid state circuits and semiconductor devices.

Dr. Kim Coble received her Ph.D. in astrophysics from the University of Chicago in 1999. Her research at UC Santa Barbara is focused on the cosmic microwave background radiation.

Dr. D. P. Sheehan is a professor of physics at the University of San Diego. His research interests include plasma physics, fundamental issues in thermodynamics, and solar system formation problems.

Claudine Kavanagh, M. S. received her Master's degree in physics education in 2000. She is currently program coordinator for SII. Her current interests include comparative cosmology and the history of astronomy.

This conference is sponsored by :

The Science Integration Institute
1971 SE 73rd Avenue, Hillsboro, Oregon 97123
Phone: (503) 848-0280
e-mail: info@scienceintegration.org
www.scienceintegration.org
The Center for Science Education
Portland State University
www.cse.pdx.edu

The First Annual Science Integration Conference

*Exploring the role of physical science in
the development of personal worldviews*

September
15 - 16
2000

Portland, Oregon

Physical science has acquired a reputation for dehumanizing the world, leaving us stranded and alienated in a universe for which our existence seems irrelevant.

Yet, the same science is a powerful tool for understanding the world around us and for gaining new insights that shed light on what our place might actually *be* in the universe.

This conference will be an opportunity to explore physical science from this perspective, by facilitating a dialog among scientists, educators, and the interested public.

the role of physical science in the development of personal worldviews

Theme and Background

As a participant in this inaugural conference on science integration, you'll help develop a vision of science within which you can pursue your own search for meaning, in a way that is consistent with a scientifically realistic map of the world.

We'll center our discussion on questions such as:

How have the major concepts, insights, and developments of physical science influenced public perception of our "place" in the universe?

What problems and conflicts has this influence caused?

What can be done to facilitate better incorporation of physical science insights into our everyday lives and perspectives, in a positive and constructive way?

The Science Integration Institute (SII) was founded in 1998 by a group of scientists and science educators to support the application of science to the development of the individual worldviews by which we guide our lives. Science is both a set of insights into the nature of the universe in which we live and a tool for developing further insights. Our mission is to conduct and support research and educational activities which use the process of science, and the insights gained about the universe by modern science, as tools to aid individuals in constructing realistic and meaningful views of their role in the universe.

Schedule

Friday September 15

5:30 - 7:00 pm Open registration/check-in

7:00 - 7:30 pm **Todd Duncan**

Welcome and introduction to the conference goals

7:30 - 8:30 pm **Jack Semura**

Meaning in an Age of Synthesis:
Insights from Studies of Complexity

Saturday September 16

9:00 - 10:00 am **Amanda Duncan**

How Does Technology Reflect and Influence Our Worldviews?

10:30 - 11:30 am **Kim Coble**

The Big Picture: A Perspective from Modern Cosmology

(11:30 am - 1:00 pm Lunch on your own.)

1:00 - 2:00 pm **Daniel Sheehan**

Insights From Thermodynamics

2:00 - 3:00 pm

Claudine Kavanagh & Todd Duncan

The Science Education Perspective: Ways to encourage the incorporation of insights from physical science into daily life

3:30 - 5:00 pm

Focused group and panel discussion on the influence of physical science on our worldviews.

Sunday September 17

Optional and informal trip to the Oregon Coast for games and continued discussion.

Registration

Advance registration (before Sept. 1) is **\$50**.

Student advance registration is **\$30**.

Registration at the door will be **\$75**, on a space available basis.

Registration includes a packet of conference material and all lectures on Friday and Saturday. Continental breakfast and afternoon snacks will be provided.

The conference will be held at Portland State University.

For information about accommodations near Portland State University, please visit our conference web site:

www.scienceintegration.org/conference.html

For advance registration, please complete the reverse side of this form, detach and mail before September 1 with your check to:

**The Science Integration Institute
1971 SE 73rd Avenue
Hillsboro, Oregon 97123**

