



HOOSIER ASSOCIATION OF SCIENCE TEACHERS, Inc.

333 Gardendale Rd.
Terre Haute, IN 47803
kjh@vigoschools.org

Educators of science... Striving for Success in Science? The Hoosier Association of Science Teachers, Inc. (HASTI) invites you and your colleagues to join us for the 39th Conference on Professional Development in Science Education which will be held February 4 -6, 2009, at the Indianapolis Convention Center. We offer a rich assortment of workshops, presentations, seminars and exhibits that cover content knowledge, inquiry-based techniques, assessment options and more.

Consider these professional development opportunities

- Learn how to support and evaluate an inquiry-based science program and what to look for while observing a lesson by attending "Inquiry Instruction Through the Learning Spiral." Explore the learning spiral through exploration, engagement, explanation, elaboration, and evaluation of inquiry instruction..
- Practical Ways to Assess and Change Your Students' Perceptions of Scientist - This session will help science teachers develop relevant assessment of students' perceptions in a practical way.
- Discuss strategies that contribute to high student achievement with Implementing Research-based Science Curricular Materials for Science Achievement.
- Earn graduate credit for attending the conference through IUPUC.

Discounted early registration closes on January 25! Visit www.hasti.org for the complete pre-conference program.

The HASTI Conference will provide invaluable experiences for science educators at all grade levels. Our professional development features over 250 concurrent sessions for elementary, middle, high school, and college science teachers. The schedule includes the following featured speakers:

Wednesday, Feb. 4 - Ann Cutler - "Parameters of Destruction: The Science of Flames and Explosions" - A small fraction of the fascinating and extensive chemistry and physics of fire (and its destructive cousin, explosion) will be presented. Ann works at the University of Indianapolis.

Thursday, Feb. 5 - Brian Fox Ellis - "Charles Darwin and the Voyage of the Beagle" - Brian will step back in time to bring us a visit from Charles Darwin and tales of strange creatures on the Galapagos Archipelago. This program is

especially important since this is the 200th anniversary of Charles Darwin's birth.

Much more information about Brian is available on his website at:

<http://www.foxtalesint.com/Performances/Performances>



Friday, Feb. 6 - Compton Tucker - "Observing Climate with Satellites: Are We on Thin Ice?" - The Earth's climate is determined by irradiance from the sun and by properties of the atmosphere, oceans, and land that determine the reflection, absorption, and emission of energy within our atmosphere and at the Earth's surface. Since the 1970s, Earth-viewing satellites have complemented non-satellite geophysical information that together has led to an unprecedented understanding of the Earth's coupled ocean-land-atmosphere system. The speaker will discuss the elaboration of the Earth's climate system that has resulted from earth-viewing satellites and ground-based geophysical monitoring stations, review claims by climate change skeptics who argue against global warming, and show the unprecedented convergence of evidence for global warming in the past few years. He will also discuss recent concerns about warming-induced instabilities to the ice sheets of Greenland and Antarctica.

Compton Tucker is a senior earth scientist at NASA's Goddard Space Flight Center. His research has involved studying global net primary production, measuring tropical deforestation, climatically-linked diseases, and glacier variations over time. He is the author of 140 journal articles on the use of satellite data to study the earth. More information about Dr. Tucker is available at:

<http://tpwww.gsfc.nasa.gov/bsb/staff/Tucker.html>



A Thursday evening social will take place at the Indiana State Museum with all museum galleries open for conference attendees. The featured exhibit is:



If you have any questions, then please contact our conference coordinator at anniel@cmcglobal.com or 317-635-4755.

HASTI is Indiana's number one source of the latest and most up to date science materials and educational strategies! Will you take advantage of all HASTI has to offer? Come join us at the HASTI Conference this year.

Cordially,
Karen Henman
HASTI Conference Chairman, 2009