

General Session
8:30 am - 9:15 am

Platinum 5&6

Eugenie C. Scott, Ph.D.

Executive Director, National Center for Science Education (NSCE)



Deja vu all over again: Denialism of climate change and evolution

Both evolution and global warming are “controversial issues” in education, but are not controversial in the world of science. There is remarkable similarity in the techniques that are used by both camps to promote their views. The scientific issues are presented as “not being settled,” or that there is considerable debate among scientists over the validity of claims. Denialists in both camps practice “anomaly mongering,” in which a small detail seemingly incompatible with either evolution or global warming is held up as dispositive of either evolution or climate science. Although in both cases, reputable, established science is under attack for ideological reasons, the underlying ideology differs: for creationism, the ideology of course is religious; for global warming, the ideology is political and/or economic. Join Dr. Eugenie Scott, Executive Director of NCSE, as she highlights how science denialism is impacting biology education while helping you diffuse the claims about these not so “controversial” topics.”

Eugenie Scott, a former university professor, is the Executive Director of NCSE. She has been both a researcher and an activist in the creationism/evolution controversy for over twenty-five years. She holds eight honorary degrees and has received national recognition for her NCSE activities, including awards from scientific societies, educational societies, skeptics groups, and humanist groups. Scott is the author of *Evolution vs Creationism* and co-editor, with Glenn Branch, of *Not in Our Classrooms: Why Intelligent Design Is Wrong for Our Schools*.

ABBREVIATION KEY

- GA** = General Audience
- E** = Elementary
- JH** = Middle School/Jr. High
- HS** = High School
- 2C** = Two-Year College
- 4C** = Four-Year College

9:30 am - 10:45 am

Human Skin Pigmentation and UV Intensity

Elite 1 • Hands-On Workshop • Evolution • HS 2C

Human evolution activity studies the distribution of patterns of human pigmentation, discover causal relationship with environment and natural selection. Lesson plan and background resources provided.

– Pamela Harman, SETI Institute, Mountain View, CA

Integrating Concepts In Biology is Redesigned Biology for Vision and Change

Grand A • Exhibitor Demonstration • Evolution • HS 2C 4C

We will present the only textbook that meets the needs of AP teachers and Vision and Change guidelines for introductory college biology. Integrating Concepts in Biology is a complete redesign, with pedagogy based on how people learn. We develop 5 Big Ideas of biology at 5 organizational levels, from molecules to ecological systems, to produce a 25-chapter book. We provide user-friendly math modules and all the resources teachers need to ease into this transition.

– A. Malcolm Campbell and Laurie J. Heyer, Wiley Blackwell, Hoboken, NJ

Invited Speaker
9:30 am - 10:45 am

Orange County 3

Helen Quinn, Ph.D.

National Research Council Board on Science Education, Stanford University, Stanford, CA



Photo by Dan Quinn

A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas

The National Research Council’s (NRC) recently released “Framework for K-12 Science Education” is intended to guide the development of “Next Generation Science Standards” by Achieve Inc. in partnership with multiple states. Dr. Helen Quinn chaired the NRC committee that developed the document and will discuss its impacts.

Quinn is professor emerita of physics at SLAC National Accelerator Laboratory. A theoretical physicist, she was elected to the National Academy of Sciences in 2003 and was president of the American Physical Society in 2004. In addition to her scholarship in physics, she has had long-term involvement in science education and in the continuing education of science teachers. She was an active contributor to the California State Science Standards development process. She is a former president and founder of the nonprofit Contemporary Physics Education Project. She served as chair of the Review and Evaluation of the Pre-College Education Program Committee of the National Aeronautics and Space Administration. At the National Research Council, she was a member of the Committee on Science Learning, K-8; the Federal Coordinating Committee on Science, Mathematics and Technology Education; and the Center for Education Advisory Board. She has a Ph.D. in physics from Stanford University (1967).

Best Practices Using MasteringBiology®

Orange County 3 • Exhibitor Demonstration • Instructional Strategies/Technologies • GA

This demonstration and discussion will present a variety of basic and advanced techniques for making effective use of the powerful MasteringBiology tutorial and homework system. Participants are encouraged to share their experiences, best practices, and plans for creating assignments and using the student data.

- Eileen Gregory, Rollins College, Winter Park, FL and Jon Lochamy, Georgia Perimeter College, Atlanta, GA

Teaching DNA, Gene Expression, Gene Regulation, and Biotechnology with Free Resources from HHMI

Platinum 1&2 • Hands-On Workshop • Instructional Strategies/Technologies • HS 2C 4C

This session will provide teacher-ready classroom activities utilizing Holiday Lectures on Science DVDs and BioInteractive website resources to enhance classroom instruction of Molecular Genetics. Topics will include: DNA structure and function, gene expression, RNA processing, gene regulation, prokaryotic operons, toolkit genes, and biotechnology. Resources pertaining to the 2010 Viral Outbreak DVD will be provided, as well as correlations with the new AP Biology curriculum. FREE DVDs, teacher-generated curriculum guides, and classroom-ready activities will be distributed.

- Ann Brokaw, Howard Hughes Medical Institute, Chevy Chase, MD

Teaching Life Science so Students Learn

Platinum 4 • Hands-On Workshop • Instructional Strategies/Technologies • GA JH

Come experience the features and review the research base of a curriculum that dramatically improved 8th grade students understanding of core science concepts and scientific inquiry. Participants will also have the opportunity to join the online community of curriculum users.

- Paul Beardsley, BSCS, Colorado Springs, CO

9:30 am - 10:45 am

Committee Meetings

Grand E

NABT is an association for our members by our members. ALL NABT committee members are encouraged to attend these concurrent committee meetings to discuss last year's initiatives, and make plans for 2012. Not on a committee? Anybody and everybody interested in getting involved in NABT is welcome to attend.

Teach Marine Biology Instead of Biology to all State Standards

Elite 2 • Hands-On Workshop • Oceanography/Marine Biology • HS JH

Comprehensive biology course focusing on marine life teaching all required California, various state/national biology standards! Includes lesson plans, labs, activities, games, web inter-actives/web quests. Course components tried & test scores were phenomenal.

- Mark Friedman, Animo High School, Inglewood, CA & Gwen Noda, COSEE-West, UCLA, Los Angeles, CA

Easy Lab to Show Enzyme Activity

Platinum 7 • Hands-On Workshop • Molecular & Cell Biology • HS JH

This hands-on activity workshop will provide an easy lesson plan to help you show how enzymes work. This is a S.T.E.M. based activity that utilizes technology and math to analyze data.

- Nancy Withers, Fisher Science Education, Huntington Beach, CA

An Overview of the NSDL Science Literacy Maps

Grand B • Focus Group • Molecular & Cell Biology

An interactive presentation introducing educators to the NSDL Science Literacy Maps, the online concept browsing interface provided by the National Science Digital Library

- Francis Molina, AAAS, Washington, DC

"It's Kind of Like This?" Demystifying Biological Science with the Help of Analogies and Illustrations

Orange County 2 • Paper • General Biology • HS 4C

Examples of several simple analogies from dart guns to dominoes, used to help students better understand abstract biological concepts of General Biology and Microbiology courses will be presented.

- Paul DeLange, Kettering College, Kettering, Ohio

"How Do I Know It's Effective?": Evaluating Teaching and Learning in Biology Classrooms

Grand J • Symposium • Instructional Strategies/Technologies • GA E

An interactive discussion of evaluation study designs will provide teachers and

administrators with an understanding of how evaluation can be used to enhance biology students' learning.

- Amy Nisselle, & Bruce Nash, Dolan DNA Learning Center, Cold Spring Harbor, NY, Uwe Hilgert, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

Turbo Strand

Statistics for Sophomores

Grand C • Hands-On Workshop • General Biology • HS GA

Presenters will clarify the hypothesis, the prediction, and the null statistical hypothesis and participants will learn various statistical tests to help students support their conclusions.

- Paul Strode & Kristy Campbell, Fairview High School, Boulder, CO

Cool Things About DNA

Grand D • Paper • Biotechnology • HS 4C

Come and enjoy a light hearted session on what research has discovered about DNA. "Cool Things About DNA" was developed as an introductory presentation to HS biology class' genetic unit but has been used at grade levels 7-14. You are invited to bring your own "cool" facts about DNA.

- Mike Zeller, Iowa State University-Biotechnology, Ames, IA

From Shrooms to Biodiversity to Revitalization

Grand K • Paper • Teacher Prep/ Professional Development • HS 2C

Summer field courses in biology are a great way to learn something new, meet new friends, and rejuvenate yourself/teaching for the coming school year.

- LaRue (George) Sellers, Ware Shoals High School, Greenwood, SC & Judy Jones, East Chapel High School, Chapel Hill, NC

Who has the Risk Taking Gene: Olympic Bobsledders or Your Students who Text?

Platinum 9 • Paper • Genetics • 4C GA

This session examines the presence of the risk taking gene in college students who text to Olympic bobsledders. Take a risk and join us.

- Nancy Elwess, & Sandra Latourelle, SUNY Plattsburgh, Plattsburgh, NY

9:30 am - 10:45 am

*continued***AP Biology: Help for Making the Transition to the New Curriculum Framework**

Platinum 8 • Hands-On Workshop • General Biology • HS

Want help integrating the old and the new? Two experienced AP teachers will share ideas and insights on how to use your current textbook and course materials as the foundation for your AP Biology course under the new Curriculum Framework. Bring your current text or course outline for a work session.

- Theresa Holtzclaw & Fred Holtzclaw, Webb School of Knoxville, Knoxville, TN

Am I a Living Nut?

Grand G • Hands-On Workshop • Botany & Microbiology • E JH

Through hands-on fun activities, participants will gain experience and skills in teaching two universal life science standards: characteristics of living things and classification.

- Umadevi Garimella, University of Central Arkansas, Conway, AR

9:30 am - 11:30 am

Teaching About Human Evolution: Changing Humans in a Changing Environment

Orange County 1 • Hands-On Workshop • Instructional Strategies/Technologies • HS 2C 4C

Interested in receiving teaching materials and learning about strategies to teach human evolution in your classroom? Join us to engage in hands-on activities, explore the teaching resources that accompany the symposium content, and learn about the Smithsonian Institution's Human Origins Program educator resources.

- Kristin Jenkins, National Evolutionary Synthesis Center, Durham, NC & Susan Musante, American Institute of Biological Sciences, Reston, VA

9:30 am - 12:00 pm

Exhibit Hall Open

Marquis Ballroom

**Workshop 5: Developing a "Naturalist" Approach in the Teaching of Science Concepts and Inquiry**

Elite 3 • Special Workshops • General Biology, Instructional Strategies/Technologies • Cost: \$65 • HS

There is a growing need for students to be curious about and gain greater knowledge of the natural world.

Some have described many of today's students as "nature deficient" (in recognition of "Naturalist" being one of Gardner's multiple intelligences.) Many students have never studied common organisms such as bees, mosquitoes, sunflowers, trees, dandelions, corn, wheat, cotton, etc. They lack the correlation between words in their life science texts and experience of the life cycles, adaptations/behavior of common organisms. This presentation describes the type of hands-on multisensory activities which research has validated as effective, to enhance comprehension of science concepts for all learners: visual, aural, tactile and ELL. Strategies are presented for guided inquiry in which students employ science-process skills of observation, forming hypotheses, experimentation, use of measurement tools, and reaching valid scientific conclusions. Through first-hand experience in the natural world, science concepts can be introduced, discussed, and most importantly, understood, when experienced in the context of their meaning. The knowledge and skills gained through this process will benefit students the rest of their lives as they routinely interact with their world of lawns, gardens, and waters. Many handouts including labs, teaching strategies, and a CD are provided.

- Bill Klein, Western Iowa Tech CC, Sioux City, IA

**Workshop 11: Problem Based Learning (PBL) in General Biology**

Orange County 4 • Special Workshops • General Biology • Cost: \$55 • HS

In today's test/grade-driven educational environment, learning biology for many students becomes an attempt to remember a dizzying array of details, for an exam, which are then quickly forgotten. For teachers end-of-course tests have forced many to use more passive lecture-based methods to "cover" the large body of material required for the test. What is lost in this learning culture is the very

reason we educate – to help our students become engaged, responsible, and critically thinking citizens. This interactive workshop explores strategies for utilizing engaging, real-world problems to provide a meaningful context for learning biology, and to promote the use of biological concepts to find workable solutions.

- John Peters, College of Charleston, Charleston, SC

**Workshop 10: Bioacoustics of Birds Using Raven Software: A Digital Research Tool for Teaching Urban Ecology, Physics and Environmental Science**

Platinum 3 • Special Workshops • Environment Ecology • Cost: \$55 • HS

This workshop will provide the opportunity for participants to investigate the bioacoustics of birds and urban habitats through live recording and analysis. This collaborative project is a great way to engage students in urban ecology, physics and environmental science. Bring your laptop and prepare to go outside!

- Eric G. Strauss, Loyola Marymount University, Los Angeles, CA

10:45 am - 11:15 am

Please join us in the Exhibit Hall (Marquis Ballroom) for a coffee break.

11:15 am - 12:30 pm

Interactive Classroom Discussions: Using Conversation to Facilitate Student Connections to Biology Content

Grand C • Paper • General Biology • HS JH

This session explains how facilitating interactive classroom discussion can engage students in active learning and making connections to biology content. Instructional strategies are presented

- Xenia Meyer, UC Berkeley, Berkeley, CA & Jim Clark, Arroyo High School, San Lorenzo, CA

11:15 am - 12:30 pm

NABT Town Hall Meeting

Platinum 5&6 •

This is your chance to really interact with the NABT President and Board of Directors. Listen to the “State of the Association,” find out what programs are supported with your membership dues, and learn more about our exciting plans for 2012. NABT is only as strong as our members make us. Have a voice in your professional association!

Infect Your Biology Classroom With Math!

Grand A • Exhibitor Demonstration • Instructional Strategies/Technologies • GA

Using exciting, state-of-the-art handheld technology, participants in this session will experience how to easily and effectively integrate mathematics into Biology classroom activities. We will collect data, display the data in multiple ways, analyze the data, and make predictions from the data; all on one device! Come and join us!

- Jeff Lukens, Roosevelt High School, Sioux Falls, SD

Videocase Lesson Analysis for Improved Teacher Practice

Platinum 4 • Hands-On Workshop • Teacher Prep/Professional Development • GA JH

Explore teacher learning strategies and facilitated analysis of video clips in this engaging session that will challenge participants to analyze teaching videocases and apply the analysis to improve teaching practice.

- Paul Numedahl, BSCS, Colorado Springs, CO

Turbo Strand**Study Tools for Science Students & Their Parents**

Grand K • Hands-On Workshop • Instructional Strategies/Technologies • HS JH

Four unique active study strategies will be introduced. Strategies may easily be used in the science classroom and by parents at home!

- Aimee Wagner, Newark Collegiate Academy, a KIPP School, Newark, NJ

The PIT Crew: Physicians in Training

Elite 2 • Hands-On Workshop •

Physiology • HS 2C

Inspire future health-care professionals with fitness: An inquiry-based approach to incorporating exercise physiology into a biology or anatomy and physiology classroom.

- Stephen Biscotte, Cave Spring High School, Roanoke, VA

Citizen Science and Society

Platinum 7 • Hands-on Workshop •

General Biology • 2C 4C

Students as citizen scientists. Help students learn biology content and how science is a way of knowing through out-of-class activities. Materials and handouts provided.

- Kristy Halverson & Carrie Boyce, The University of Southern Mississippi, Hattiesburg, Mississippi

Inquiry for Everyone: Using Labs for Primary Content Delivery

Orange County 2 • Paper • General

Biology • HS JH

Evidence for successfully using labs as a primary instructional tool will be presented and materials will be shared to replicate the labs and activities described.

- Michael Ralph, Olathe East High School, Olathe, KS & Shannon Ralph, Dodge City High School, Dodge City, KS

Opening Doors: Enhancing High School Students' Science Experiences and Opportunities through a Summer Internship Program

Platinum 1&2 • Paper • General Biology

• HS 4C

An exemplary high school internship program in university-based lab research profoundly impacts students underrepresented in sciences, in self-efficacy and higher education attainment.

- Jean MacCormack & Andrew Grillo-Hill, University of California, San Francisco, San Francisco, CA

Expedition Earth and Beyond

Platinum 8 • Hands-On Workshop •

Environment/Ecology • JH

This session will have you working with stunning images of Earth landforms and spheres of Earth. Learn how your

students can design their own investigations and potentially request an astronaut to take a new image of Earth on their behalf! NASA resources and handouts will be provided.

- Lisa Brown, NASA - Aerospace Education Services Project, College Station, Texas

Assessing Interdisciplinary Understanding of Osmosis: A Transformative Approach to Developing High-quality Science Assessment Items

Grand J • Symposium • Instructional Strategies/Technologies • HS GA

Interdisciplinary understandings of concepts are difficult to assess. Join us to examine a new approach to building items for the assessment of osmosis.

- Shannon Huang, Ji Shen, Georgia Hodges, J. Steve Oliver & Kyung-A Kwon, The University of Georgia, Athens, GA

Food Safety: “FARM to FORK”

Grand G • Hands-On Workshop • Human Health & Public Issues • JH

Microbes: NECESSARY (can't live without them), COMPETITORS (among themselves and our food supply), SURVIVORS (they have been around awhile), and NOW their role in Genetic Engineering.

- John Fedors, Science Activities, Lincoln, CA

Genetics: A Novel Method for Teaching Gene Expression

Grand D • Hands-On Workshop •

Genetics • HS 2C

Use standards-based, hands-on activities to teach gene expression and how it relates to the use of genetically modified organisms to address sustainability issues.

- Maia Willcox & Barbara Nagle, SEPUP - Lawrence Hall of Science - UC Berkeley, Berkeley, CA

Human Health and Global Environmental Change

Platinum 9 • Hands-On Workshop •

Environment/Ecology • HS JH

Try out lessons about the human health connection to environmental issues such as climate change, biodiversity, and energy that have been adapted for secondary

11:15 am - 12:30 pm

continued

classrooms from the Harvard Medical School course Human Health and Global Environmental Change.

- Kate Hester, Center for Health and the Global Environment, Boston, MA

DNA Barcoding in Your Classroom

Elite 1 • Demonstration • Evolution • HS 2C

Engage students in their own learning by identifying plants, animals and food sources through their unique DNA (sequence) barcodes.

- Uwe Hilgert, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

12:30 pm - 2:00 pm

Honors Luncheon

Grand E • Invited Speaker • General Biology • Cost: \$50.00

Bring your appetite and a camera as we salute the 2011 NABT Award Winners, including the recipients of the Outstanding Biology Teacher Award (OBTA). End the conference with this celebration of excellence in teaching by professionals that are an inspiration to us all.

1:00 pm - 5:30 pm

Nature Preserve and Balboa Island, Newport Beach

Field Trip • General Biology • Cost: \$85

Visit the Pacific Flyway (highway for migrating birds) and see a variety of bird species and learn about their migration. Then visit the Muth Interpretive Center to learn about the Back Bay and this pristine ecological preserve. Conclude your trip with a visit to Balboa Island in Newport Beach for some free time to shop and enjoy this cute little island located on Newport Beach Harbor.

MAKE PLANS FOR 2012

NABT

NABT PROFESSIONAL DEVELOPMENT CONFERENCE

OCTOBER 31 - NOVEMBER 3, 2012

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- 2011 Neil Shubin, Ph.D., University of Chicago, Chicago, IL
- 2010 Richard Dawkins, The Richard Dawkins Foundation for Reason and Science, Falcon, CO
- 2009 Mario Capecchi, University of Utah, Salt Lake City, UT
- 2008 Ken Miller, Brown University, Providence, RI
- 2007 Sean Carroll, University of Wisconsin – Madison, Madison, WI
- 2006 Shirley Malcom, AAAS, Washington DC
- 2005 James A. Thompson, V.M.D., University of Wisconsin–Madison, Madison, WI; and Nina Leopold Bradley, Aldo Leopold Foundation, Baraboo, WI
- 2004 Barbara Bancroft, RN, MSN, PNP, CPP Associates, Inc., Chicago, IL
- 2003 Roberta Pagon, M.D., Children’s Hospital & Regional Medical Center, Seattle, WA
- 2002 Thomas E. Lovejoy, The H. John Heinz III Center for Science, Economics and the Environment, Washington, DC
- 2001 E.O. Wilson, Harvard University, Cambridge, MA
- 2000 Roger and Deborah Fouts, Chimpanzee and Human Communication Institute, Ellensburg, WA
- 1999 Jack Horner, Museum of the Rockies, Bozeman, MT
- 1998 Dr. Leroy Hood, University of Washington, Seattle, WA
- 1997 Neal Lane, Director, National Science Foundation, Washington, DC; and Donald Kennedy, Stanford University, Palo Alto, CA
- 1996 Dr. Francis Collins, National Institutes of Health, Bethesda, MD
- 1995 Carl Djerassi, Stanford University, Palo Alto, CA
- 1994 Bruce Alberts, National Academy of Sciences, Washington, DC
- 1993 Nancy S. Wexler, College of Physicians and Surgeons of Columbia University, New York State Psychiatric Institute, New York, NY
- 1992 Paul R. Ehrlich, Stanford University, Palo Alto, CA
- 1991 Stephen Jay Gould, Harvard University, Cambridge, MA
- 1990 Peter Raven, Missouri Botanical Garden, St. Louis, MO
- 1989 Stanley Cohen, Stanford University, Palo Alto, CA
- 1988 Lynn Margulis, University of Massachusetts, Boston, MA; and James D. Watson, Cold Spring Laboratory, Cold Spring Harbor, NY

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- 1998–Ivo Lindauer
- 1997–Sam Rhine
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- 1995–Joseph D. Novak
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