



2010 Annual Meeting

18–22 February • San Diego



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Symposia

Friday, February 19, 2010

8:30 AM-10:00 AM

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Communicating on the State and Local Level: How Can Scientists Support Policy-Makers?

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Scientific Approaches to Teaching Science in K-16 Education

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Smart and Secure Transmission Grids To Realize US and EU Renewable Energy Potentials

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Women and Men in the Scientific Work Force: Issues of Networks, Partners, and Ethics

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Working Together for the Public: Challenges for Verification of Nuclear Activities

8:30 AM-11:30 AM

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Decoding the Secret Pathologies of Dolphins: Significance for Human and Ocean Health

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Human Dimensions of Geoengineering

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

One Fish, Two Fish, Red Fish, New Fish: Society Needs Marine Biodiversity Research

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

One Health: Attaining Optimal Health for People, Animals, and the Environment

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Physics and Art: A Gateway to the Sciences

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Sea Ice in the Changing Climate: Modeling a Multiscale Nonlinear System

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

Stress and the Central Role of the Brain in Health Inequities

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Toward Green Mobility: Integrating Electric Drive Vehicles and Smart Grid Technology

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Up in Flames: Fire in a Changing Environment

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Watching the Watchmen and Cheering the Heroes: The Science of Superheroes

10:30 AM-12:00 PM

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Bottom-of-the-Economic-Pyramid Technological Solutions: Lessons from Success Stories

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Ensuring Marine Policy Is Responsive to Social Dynamics and Management Experience

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Integrated Science for Society and the Environment

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Mind Changes: Can Out-of-School Learning Contribute to Evolution Literacy?

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Scientific Rationality and Policy-Making: Making Their Marriage Work

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Visualizations in the Mind and in the World: Implications for STEM Education

1:30 PM-3:00 PM

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT
A California Roadmap for Identifying Chemicals that Affect Breast Cancer Risk

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS
A Wobbly Three-Legged Stool: Science, Politics, and the Public

SYMPOSIUM TRACK: BEYOND THE CLASSROOM
Building Bridges Between Ocean Scientists, Educators, and Students

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS
Food Allergies: The Enemy Within

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE
Greening Cities Through Media, Education, and Science

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES
Limits to Sustainability of Coral Reef Fisheries

SYMPOSIUM TRACK: BEYOND THE CLASSROOM
Scientific Foundations for Future Physicians

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT
Traumatic Brain Injury: The Violent and Silent Epidemic

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS
What's Next for the Net? The Internet of Things and Ubiquitous Computing

1:30 PM-4:30 PM

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE
Algae for Food, Feed, Fiber, Freshwater, and Fuel

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE
Co-Evolution of Science and Society for Sustainability Innovation

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE
Dust in the Earth System

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM
First-Person Solvers? Learning Mathematics in a Video Game

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT
Innate Immunity: Theme and Variations

SYMPOSIUM TRACK: COMMUNICATING SCIENCE
Science Meets Society: Walking the Talk

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS
The Arrow of Time

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY
What Went Wrong with the Global Economy?

3:30 PM-5:00 PM

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW
Biofuels' Uncertain Future: Unraveling the Science and Politics of Indirect Land Use

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES
Confronting Ocean Acidification: Options for Management and Policy

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS
Impact of Biomedical Progress on Health Span and Health Care of the Elderly

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT
Language Processing for Science and Society

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS
Managing the Exaflood: Enhancing the Value of Networked Data for Science and Society

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW
Nuclear Waste Management: From Public Perception To Industrial Reality

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS
Speaking Scientific Truth to Power

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS
Tracking and Tracing Our Food Supply: The Way Forward

Saturday, February 20, 2010

8:30 AM-10:00 AM

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE
Bridging Science and Society for Sustainability: The Role of Visualization

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Building International Security Through Lab-to-Lab Exchanges

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Past, Present, and Future of Forensic Science in the United States

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Repairing Our DNA: Bridging Molecular Mechanism and Human Health

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Science in Motion: Addressing Complex Health Problems Through Upstream Solutions

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Traffic, Crowds, and Society

8:30 AM-11:30 AM

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

50 Years of Exobiology and Astrobiology: Past, Present, and Future Life in the Universe

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Applying Biogenomics to Ecology: From the Molecular to the Ecosystem Level

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Can Geoenvironmental Engineering Save Us from Global Warming?

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Coastal Adaptation

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Combating Global Emissions: The Urgent Need for a New Strategy in the Asia-Pacific Rim

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Demonstrating the Legal Sustainability of Effective STEM Diversity Programs

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Learning Science in Informal Environments

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Nanotechnology: Will Nanomaterials Revolutionize Energy Applications?

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

The Brain on Trial: Neuroscience Evidence in the Courtroom

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

The Impact of Genomics

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

When Science Goes Global, Can Everybody Win?

10:30 AM-12:00 PM

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

DNA Identifiability: Ethical Issues and Policy Challenges

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Global Food Security, Land Use, and the Environment: Future Challenges

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Management and Governance in a Melting Marine Arctic: Challenges and Opportunities

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Particles and People: How Basic Physics Benefits Society

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

The Next Big Thing: Keys in the Transformation from Science to Society

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

The Science of Well-Being and Implications for Societal Quality of Life

1:30 PM-3:00 PM

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Consequences of Endocrine Disrupting Agents in the Laboratory and Home

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Earthquake Science and Advocacy: Helping Californians Live Along the San Andreas Fault

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Facing the Uncertain Future of International Science Journalism

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Getting to the Roots of Agricultural Productivity

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Reemergence of Science, Technology, and Education as Priorities in the Arab World

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Targeting HIV/AIDS Prevention: New Research and Future Avenues

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

Unexpected Discoveries on Brain Function and Development from Model Organisms

1:30 PM-4:30 PM

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Denial, Detente, and Decisions: Fisheries Science at the Crossroads

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Privacy in a New Global Context: Trapped Between Culture, Laws, and Technology

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Real Numbers: Mathematical Technologies for Counterterrorism and Border Security

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Rethinking the Science, Biology, and Importance of Stem Cells in Regenerative Medicine

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Science Literacy: How To Train Teachers, Engage Students, and Maximize Learning

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Societal Strategies for Addressing the Climate and Energy Challenge

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

The Future of the National Science Foundation on Its 60th Anniversary

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Tomorrow's Scientists and Engineers

3:30 PM-5:00 PM

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Communicating Science to the Public: Culture and Social Context in East Asia

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

False Discoveries and Statistics: Implications for Health and the Environment

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Improving Oral Health: Smiles for Life

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

Music-Language Interactions in the Brain: From the Brainstem to Broca's Area

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Plato's Progeny: Academies of Science

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

TIMSS 2007: Exploring the Dramatic Improvements in Performance in Two States

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Translating the Science of Vector-Borne Disease to the Improvement of Global Health

 Sunday, February 21, 2010

8:30 AM-10:00 AM

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Ethical and Societal Dimensions of Biosecurity and Dual-Use Research

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Gray Is the New Green: How Energy Recycling Curbs Both Global Warming and Power Costs

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Land-Ocean Linkages and Dynamics of High-Productivity Ecosystems in the Sea of Cortes

8:30 AM-11:30 AM

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Adam Smith Meets Jacques Cousteau: Using Economics To Protect Marine Resources

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Climate Change in Working Landscapes: Sustainability Science and Policy Perspectives

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Consequences of Changes in Energy Return on Energy Invested

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Eyes on Screen: Communicating Science in the New Information Age

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Genetics and Ethics: Different Views on the Human Condition

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Healthy and Plentiful Animal-Based Foods: Science Offers New Possibilities

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Mobilizing East Asian Science and Technology To Address Critical Global Challenges

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Moving Across Scales: Mathematics for Investigating Biological Hierarchies

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

Role of Sleep in Memory from Development to Old Age

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

SETI Turns 50

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Strategies for Diaspora To Be Enablers of S&T Capacity-Building in Their Homelands

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Sustainability Science: Transformative Research Beyond Scenario Studies

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Top-Down or Bottom-Up? Comparing European and U.S. Gender Policies in Science

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Worlds of Wonder: Can Video Games Teach Science?

10:30 AM-12:00 PM

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

The American Community Survey and the Census: A New Foundation for the Social Sciences

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Unraveling the Mysteries of the Deep: Effects of Human Activities on Marine Megafauna

1:30 PM-3:00 PM

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Astrobiology and the Future: Science, Ethics, and Societal Issues on Earth and Beyond

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Doomsday Versus Discovery

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Education Research at Minority-Serving Institutions: What Have We Learned?

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Infusing Science into Sustainable, Master-Planned Communities

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Oceans Apart? Transatlantic Perspectives on Public Research and Business Innovation

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Preserving the Global Commons Through Conservation and Cooperation

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Protecting the Consumer: Can "Omics" Keep the Promise?

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Science in the Theater

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

The Long Reach of Early Childhood Poverty: Pathways and Impacts

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Value and Limits of Scientific Research: Past and Future R&D Budgets

1:30 PM-4:30 PM

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Advanced Nuclear Energy Concepts for a Safe, Sustainable, Carbon-Free Future

SYMPOSIUM TRACK: BEYOND THE CLASSROOM

Civic Scientific Literacy in Developed and Developing Countries

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Designing the Future Ocean: Baseline Data Needs for Marine Spatial Planning

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Mathematics and the Analysis of Fairness in Political Processes

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Will Coral Reefs Disappear? Separating Fact from Conjecture

3:30 PM-5:00 PM

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

Are Neutrinos the Reason We Exist?

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Can Science Feed the World?

SYMPOSIUM TRACK: COMMUNICATING SCIENCE

Covering Global Climate Change and Adaptation from the Ground Up

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Intelligence of Dolphins: Ethical and Policy Implications

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

Language Learning in Deaf Children: Integrating Research on Speech, Gesture, and Sign

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Mutators Versus Antimutators in Evolution and Medicine

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Progress in the Use of Earth Observation for Fighting Hunger

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Role of Community Colleges in Increasing Minority Students in the STEM Pipeline

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Science Academies in Society

SYMPOSIUM TRACK: HEALTH, MEDICINE, AND THE ENVIRONMENT

Science of the Small: Nano-Bio-Technology Under the Biological Microscope

SYMPOSIUM TRACK: ENERGY TODAY AND TOMORROW

Urban Design and Energy Demand: Transforming Cities for an Eco-Energy Future

Monday, February 22, 2010

9:45 AM-11:15 AM

SYMPOSIUM TRACK: EDUCATION IN THE CLASSROOM

Can Singapore Mathematics Enhance Student Learning in the United States?

SYMPOSIUM TRACK: PUBLIC HEALTH AND WELLNESS

Children of Assisted Reproductive Technologies: Their Health and New Genetic Issues

SYMPOSIUM TRACK: COGNITIVE FUNCTION AND DEVELOPMENT

From Gene Discovery to Cell Biology in Psychiatry: An Emerging Case

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Geoengineering the Climate: The Royal Society Study

SYMPOSIUM TRACK: PHYSICAL SCIENCES FRONTIERS

How Computational Science Is Tackling the Grand Challenges Facing Science and Society

SYMPOSIUM TRACK: GLOBAL SCIENCE AND POLICY

Information Technologies and Remote Sensing for Understanding Human Rights Violations

SYMPOSIUM TRACK: PROTECTING MARINE RESOURCES

Marine Reserves in a Changing World: Connecting Research with Human Needs

SYMPOSIUM TRACK: RESPONDING TO ENVIRONMENTAL CHANGE

Research Translation and Environmental Health: A U.S.-Mexico Border Initiative

SYMPOSIUM TRACK: UNDERSTANDING ENVIRONMENTAL CHANGE

Understanding Climate-Change Skepticism: Its Sources and Strategies

SYMPOSIUM TRACK: SCIENCE, POLICY, AND ECONOMICS

Using GIS and Spatial Analysis To Better Understand Patterns and Causes of Violence