

2018 AAAS Annual Meeting

Advancing Science: Discovery to Application

Austin • February 15-19

Austin Convention Center

Hilton Austin

AAAS Section Interests



AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Biology and Chemistry

Applying Conservation Genetics and Genomics to
Wildlife and Fisheries Management
G,M,O,X,Y

Applying Insights From Animal Behavior to Address
Global Challenges
C,G,H,O,R,X

Applying Mass Spectrometry to Understanding
Complex Cellular Processes
B,C,M,N,R

Assessing Risk From Chemical Exposures:
Advances in Technology and Gaps in Application
C,M,X,Y

Constructing Plant Microbiomes to Improve
Reproducibility of Experiments
G,P,X

Future Products of Biotechnology and Needs for
Risk Analysis Science
C,G,M,O,X

Opioid Addiction: Biology, Psychology, and Social Policy
H,P,S,V,X,Y

Synthetic Biology: From Technology Development
to Risk Governance
M,O,R,X,Y

The Science of Art Conservation: Preserving Cultural
Heritage Objects
C,E,H,P,X

Classroom to Career

Empirical Findings on Science Fairs: Experiencing
the Nature of Science
C,L,M,X,Y

Evidence for More Versatile Graduate Education and
Academic Culture
C,K,M,Q,W,X,Z

Overcoming Barriers to Change: Applying Evidence-
Based STEM Teaching Strategies
Q,W,X,Y

Understanding Your Roots: STEM Diversity and an
Evidence-Based Curriculum
C,H,Q,X

Women in STEM at Historically Black Institutions:
South Africa and the United States
C,K,O,X,Y

Climate and the Environment

Applying Earth Science Models and Satellite
Observation to Benefit and Engage Society
E,L,O,W,X

Informing Mitigation and Adaptation Options With the
Climate Science Special Report
E,W,X

A Mathematics**B** Physics**C** Chemistry**D** Astronomy**E** Geology and Geography**G** Biological Sciences**H** Anthropology**J** Psychology**K** Social, Economic, and Political Sciences**L** History and Philosophy of Science**M** Engineering**N** Medical Sciences**O** Agriculture, Food, and Renewable Resources**P** Industrial Science and Technology**Q** Education**R** Dentistry and Oral Health Sciences**S** Pharmaceutical Sciences**T** Information, Computing, and Communication**U** Statistics**V** Neuroscience**W** Atmospheric and Hydrospheric Sciences**X** Societal Impacts of Science and Engineering**Y** General Interest in Science and Engineering**Z** Linguistics and Language Science

Involving Stakeholders to Improve Outcomes:
Lessons From the Climate Science Centers
E,O,W,X

Longer-Term Models for Arctic Sea Ice and Global
Earth System Predictions
B,C,E,W

Mathematics of Planet Earth: Superbugs, Storm
Surges, and Ecosystem Change
A,B,E,M,U,W

Mitigating Methane From Super-Emitters:
California Pilot Projects
B,C,E,W

Understanding Causality to Inform Decision-Making
Under Uncertainty
A,E,J,K,L,P,U,W,X

Communication, Language, and Culture

Cultural and Linguistic Insights From the Study of
Immigrant Languages
H,J,X,Z

Evaluation and Best Practices for Training in Science
Communication
C,K,M,P,X,Y,Z

Exploring Public Fears and Myths: Vaccine Hesitancy,
Food Safety in Fukushima, and Bacteria
G,K,N,X,Y

Gender in Translation: How Speech Communicates
Sex, Gender Identity, and Sexuality
J,K,X,Y,Z

Natural and Cultural Resource Stewardship: New
Scientific Insights and Audiences
X,Y,Z

Strategies for Communities and Scientists to
Collaborate Effectively
K,W,X,Y

The Impact of Sputnik on Science, Technology, and
the Public in the United States
D,K,L,X,Y

Understanding and Responding to Climate Change Denial
B,G,K,L,Q,W,X,Y

Visual, Attentional, and Gestural Foundations of
Signed Languages
J,Y,Z

Data and Computing

Estimating the Prevalence of Human Trafficking in the
United States
E,K,T,U,X

Experiencing the Future Internet: User-Centered Social
Television and Multimedia
K,P,T,Y

A Mathematics

B Physics

C Chemistry

D Astronomy

E Geology and Geography

G Biological Sciences

H Anthropology

J Psychology

K Social, Economic, and Political Sciences

L History and Philosophy of Science

M Engineering

N Medical Sciences

O Agriculture, Food, and Renewable Resources

P Industrial Science and Technology

Q Education

R Dentistry and Oral Health Sciences

S Pharmaceutical Sciences

T Information, Computing, and Communication

U Statistics

V Neuroscience

W Atmospheric and Hydrospheric Sciences

X Societal Impacts of Science and Engineering

Y General Interest in Science and Engineering

Z Linguistics and Language Science

Exploring Universal and Industrial Quantum Computing
B,C,M,P

How Honey Bees Set Web Servers Abuzz
G

Prospects for Long-Term Information Security in the
Face of Quantum Computing
B,M,P,X

Rethinking Approaches to Disaster Management and
Public Safety With Intelligent Infrastructure
P,U,X

Transforming Cities, Transportation, and Agriculture
With Intelligent Infrastructure
M,P,U,X

Using Wearable Device Data to Analyze and Improve
Physical Activity and Health
N,P,T,U

Diversity and Inclusion

A More Inclusive Science: Examples, Tools, and
Strategies
C,K,Q,W,X

Changing Expectations: The Future of Careers in STEM
C,M,Q,W,X

Communication Challenges and Opportunities for
Women in STEM
C,J,K,L,Q,V,W,X,Z

A Mathematics
B Physics
C Chemistry
D Astronomy
E Geology and Geography
G Biological Sciences
H Anthropology
J Psychology
K Social, Economic, and Political Sciences
L History and Philosophy of Science
M Engineering
N Medical Sciences

LGBTQ+ Identities in STEM Fields: Research and
Implications
C,H,K,W,X

Energy

A Sustainable Energy Future With Next-Generation Low-
Cost Solar Cells
C,E,M,P,W,X

Addressing Systemic and Societal Factors in
Germany's Energy Transition
X

Breakthroughs in Cellulosic Biomass and Transportation
Fuels
C,M,O,P

Economic and Environmental Effects of Public-Private
Partnerships in Biotechnology
M,O,P

Energy-Enabling Materials and the Smart Cities of
Tomorrow
B,C,G,P,X

Solving Materials Science Challenges to Shape Our
Energy Future
B,C,P

Engineering and Technology

Advancing Biopharmaceutical Manufacturing With
Public-Private Partnerships
M,P

O Agriculture, Food, and Renewable Resources
P Industrial Science and Technology
Q Education
R Dentistry and Oral Health Sciences
S Pharmaceutical Sciences
T Information, Computing, and Communication
U Statistics
V Neuroscience
W Atmospheric and Hydrospheric Sciences
X Societal Impacts of Science and Engineering
Y General Interest in Science and Engineering
Z Linguistics and Language Science

Analyzing Picasso: Scientific Innovation,
Instrumentation, and Education
C,L,X

Biomedical Sensors: Advances in Health Monitoring and
Disease Treatment
B,M,N,P,R,S,T,X

Closing the Innovation Gap Between Research and
Industry
B,C,M,P,R,S

Future-Generation Cars and Drivers: Research, Moving
to Market, and Policymaking
M,P,X

Gateway to Discovery: Research Teams Exploring the
Edge of Technical Feasibility
B,M,P,T

Harnessing the Transformative Potential of Photonics
Research and Innovation
B,C,M,P

Improvements in Earthquake Science and Risk
Reduction
B,E,M,X,Y

Improving Efficiency in Manufacturing With Information
and Communications Technology
M,P,Y

Oil and Water Do Mix: The Fate of Dispersed Oil Droplets
in the Sea
B,C,E,M,W,X

Successful Innovation and Commercialization in
Industrial Science and Technology
C,M,P,T,Y

Using Real-Time GPS for a Global Tsunami Early Warning
System
E,M,W,X

Global Collaboration

Building Research Capacity as a Critical Component of
International Development
X

Cuban Biomedical Science: The Role of Science
Diplomacy in Translating Cures
N,X

Embracing International Partnerships to Achieve
Science-Based Development in Kuwait
Y

Instruments of Science and Diplomacy: The Importance
of International Research Organizations
Y

Issues and Impacts of U.S. Global Food Security Policy
and Research
K,N,O,X

A Mathematics

B Physics

C Chemistry

D Astronomy

E Geology and Geography

G Biological Sciences

H Anthropology

J Psychology

K Social, Economic, and Political Sciences

L History and Philosophy of Science

M Engineering

N Medical Sciences

O Agriculture, Food, and Renewable Resources

P Industrial Science and Technology

Q Education

R Dentistry and Oral Health Sciences

S Pharmaceutical Sciences

T Information, Computing, and Communication

U Statistics

V Neuroscience

W Atmospheric and Hydrospheric Sciences

X Societal Impacts of Science and Engineering

Y General Interest in Science and Engineering

Z Linguistics and Language Science

Migration: A Case for Science Diplomacy
K,X

Science for Sustainable Development Goals: Key
Lessons and Gaps
E,Q,W,X

Ideas to Innovation

From New Discoveries to New Treatments for
Neurodegenerative Diseases
M,N,S,X

Materials Research for Manufacturing: Lessons from
Industry on New Product Development
B,C,M,P,Y

Technological Applications of Chemistry:
Stages of Development and Societal Impacts
C,M,P,X,Y

The Role of National Security in Strengthening the
Science and Technology Pipeline
K,P,Y

Medicine and Health

Additive Manufacturing and 3-D Printing: Medical
Technology Applications and Impacts
M,N,P,R

Advanced Technology for Oral Health Care: Diagnosis,
Prevention, and Treatment
M,N,R

A Mathematics
B Physics
C Chemistry
D Astronomy
E Geology and Geography
G Biological Sciences
H Anthropology
J Psychology
K Social, Economic, and Political Sciences
L History and Philosophy of Science
M Engineering
N Medical Sciences

Applying the Science of Genomics in Precision Medicine
and Cancer Treatment
B,M,N,R,S,X

Effective, Safe, and Underutilized: The HPV Vaccine
From Development to Implementation
N,X

Emerging Cancer Immunotherapies: Challenges of
Developing Modality-Specific Drugs
C,M,N,R

Emerging Epidemic Pathogens: Basic, Translational, and
Social Science
H,K,N,R,X

Emulating Human Biology: Organ Chips for Drug
Development and Personalized Medicine
M,N,S

Evolutionary Arms Races: From Bacteria to Cancer
G,M,N,S

Faster Responses to Epidemics and Bioterrorism With
Standardized Product Development
N,P,X

Gene Editing for Xenogeneic Organ Production:
Regenerating a Patient's Transplantation Organ
M,N,R,X

Harnessing the Human Microbiome as a Tool for
Prevention and Treatment of Disease
E,M,N,P,R,S,V,X

O Agriculture, Food, and Renewable Resources
P Industrial Science and Technology
Q Education
R Dentistry and Oral Health Sciences
S Pharmaceutical Sciences
T Information, Computing, and Communication
U Statistics
V Neuroscience
W Atmospheric and Hydrospheric Sciences
X Societal Impacts of Science and Engineering
Y General Interest in Science and Engineering
Z Linguistics and Language Science

Statistical and Computational Challenges in Genomics and Precision Medicine
A,B,M,N,P,T,U,V

Neuroscience

“To Sleep, Perchance to Dream”: Rewiring the Brain During Sleep
B,G,J,M,N,V,Z

Advanced Data Analysis Techniques for Understanding Brain Function
A,B,M,N,T,U,V,X

Brain Plasticity Revisited: How Special Is the Young Brain?
B,J,N,R,V,X,Z

Connecting Behavior and the Brain to Understand Mental Health
H,J,N,R,V,X,Z

New Technologies Emerging From the BRAIN Initiative
M,N,R,V,Z

Optimal Aging and Mechanisms of Neurocognitive Enrichment
J,N,R,V,X,Z

Uncovering Novel Epigenetic Modifications in Neuropsychiatric Diseases
N,R,S,V,X

Physics and Astronomy

A Universe of Discoveries: Progress in Astronomy, Statistics, and Machine Learning
A,B,D,E,G,T,U

Asteroids for Research, Discovery, and Commerce
B,D,E

Capturing Dark Matter With Quantum Devices
B,D

Exoplanets Everywhere: Discovering and Characterizing Worlds Beyond Our Solar System
B,C,D,E,W

Innovation in 2-D: Discovering Novel Materials and Applications
B,C,M,P,Y

Investigating the Mysteries of Antimatter
B,D

Is There a Future for Humanity in Space?
B,K,M,X

Revolutionizing Ultrasound Applications for Treating Disease
B,M,N,X

Scientific and Engagement Outcomes of the 2017 Total Solar Eclipse
B,D,X

A Mathematics
B Physics
C Chemistry
D Astronomy
E Geology and Geography
G Biological Sciences
H Anthropology
J Psychology
K Social, Economic, and Political Sciences
L History and Philosophy of Science
M Engineering
N Medical Sciences

O Agriculture, Food, and Renewable Resources
P Industrial Science and Technology
Q Education
R Dentistry and Oral Health Sciences
S Pharmaceutical Sciences
T Information, Computing, and Communication
U Statistics
V Neuroscience
W Atmospheric and Hydrospheric Sciences
X Societal Impacts of Science and Engineering
Y General Interest in Science and Engineering
Z Linguistics and Language Science

The Chemistry and Physics of Nascent Planetary Systems
B,C,D,E,W

The Technological Applications of Glass: From
Smartphones to Eagle-Eye Vision
B,M,P,Y

Policy

Balancing Facts and Values in Public Policymaking
K,W,X,Y

Building Public Trust and Fostering Innovation With
Transparency
K,L,X

Exploring Perspectives on Open Science and Impacts
on Scientific Discovery
C,E,W,X,Y

Gene Editing and Human Identity: Promising Advances
and Ethical Challenges
L,M,V,X

Industry and Research Infrastructures as Co-Creators
of Innovation
M,P

Recommendations of the U.S. Commission on Evidence-
Based Policymaking
K,M,U,W,X

Reimagining the Innovation Ecosystem: Experiments to
Maximize the Impact of Hard Tech
C,M,P,Y

A Mathematics
B Physics
C Chemistry
D Astronomy
E Geology and Geography
G Biological Sciences
H Anthropology
J Psychology
K Social, Economic, and Political Sciences
L History and Philosophy of Science
M Engineering
N Medical Sciences

Research and Policy on Voter ID Laws and Voter
Participation
K,U,X,Y

Science Activism: Advancing Science in a New Political
Landscape
E,K,R,T,W,X,Y

Science and the Fair Administration of Justice
K,T,U,X,Y

Translating Engineering and Operations Analyses into
Effective Homeland Security Policy
M,P,X

When Regulation Drives Innovation
C,K,X

Social Sciences

Advancing Interdisciplinary Collaboration With Lessons
From the Field
L,W,X,Z

Behavioral Challenges and Solutions to Science-Based
Action
X

Economic Analysis of Links Between Patents,
Publications, and Policy
C,K,M,U,X,Y

Implications of Evidence About Drug Use Hot Spots,
Gerrymandering, and Gang Violence
K,U,X

O Agriculture, Food, and Renewable Resources
P Industrial Science and Technology
Q Education
R Dentistry and Oral Health Sciences
S Pharmaceutical Sciences
T Information, Computing, and Communication
U Statistics
V Neuroscience
W Atmospheric and Hydrospheric Sciences
X Societal Impacts of Science and Engineering
Y General Interest in Science and Engineering
Z Linguistics and Language Science

Pre-Election Polling Uncertainty: An Interdisciplinary Analysis
A,K,T,U,X,Y

Social Inequality and Obesity: Effects of Poverty and Uncertainty on Health
H,K,U,X

Survey Data Collection: Theoretical and Practical Perspectives
K,U,X,Z

The Role of Conspiracy Theories in Perceptions of Fake News About Science
K,L,Q,T,X,Y

Using Social Networks to Improve Response to Natural Disasters
E,K,T,X,Y

What Citizens Think About Science: Survey Data and Implications for Communicators
H,K,L,Q,U,W,X,Y

Sustainability and Resources

Airborne Laser Mapping Research in Tropical Forests and Archaeological Sites
G,W,X

Dealing With Deadly Pests Through the Sterile Insect Technique
M,X

From the Bioreactor to the Plate: Addressing Efficiency and Scale Challenges to Algae as Food
C,O,P,W,X

Implications of Water Cycle Science and Technology for Resource Management
C,O,W,X

Overcoming Challenges to Using Environmental Big Data for Conservation
E,T,U,W,X

Phytobiome Research to Improve Agricultural Productivity
O,X

Preparing for Floods and Droughts with NASA's "Scale in the Sky"
B,E,O,W,X

Science Across Borders: Bilateral Collaboration and the U.K.-China Agri-Tech Project
O

The Importance of Tradeoffs in Managing Food Security
H,K,O,W,X

The View From Above: Exploring the Future of Drones
E,O,P,W,X,Y

A Mathematics

B Physics

C Chemistry

D Astronomy

E Geology and Geography

G Biological Sciences

H Anthropology

J Psychology

K Social, Economic, and Political Sciences

L History and Philosophy of Science

M Engineering

N Medical Sciences

O Agriculture, Food, and Renewable Resources

P Industrial Science and Technology

Q Education

R Dentistry and Oral Health Sciences

S Pharmaceutical Sciences

T Information, Computing, and Communication

U Statistics

V Neuroscience

W Atmospheric and Hydrospheric Sciences

X Societal Impacts of Science and Engineering

Y General Interest in Science and Engineering

Z Linguistics and Language Science

The Future of Artificial Intelligence

Advancing Artificial Intelligence: From the Lab to the Street
T,U,Y

Artificial Intelligence: Augmenting Not Replacing People
T,U,X,Y,Z

Finding Water Management Solutions With Artificial Intelligence
T,U,W,X

The Fourth Industrial Revolution: Supporting Societal Needs With Artificial Intelligence
B,P,T,U,W,X

FLASH TALKS**Advocating For Science**

How to Engage in Science Policy with an Hour or Less
C,W,X,Y

Stories of How Silly-Sounding Science Benefits Society
C,K,O,W,X,Y

What the Science March Tells Us About Science
G,J,X

Communication and Perception

Communication Caveats: Lessons from Scholarship
K,W,X,Y,Z

How Language Began: The Story of Humanity's Greatest Invention
H,J,Z

Sociolinguistic Perception: The Social Clues in Speech
J,K,X,Y,Z

Managing Innovation

Australia's Idea Boom: Moving from Lab to Market
P,T

Delaware Innovation Space: Business Incubator and Research Institute for Entrepreneurs
C,P,Y

Monster or Savior: Can Artificial Intelligence Go Rogue?
B,K,M,T,U,X,Z

Technology To Serve The World

Feeding the World Through the Internet of Things: Resilient Crops
G,M,O,T,X

Resourced Settings, Aligning Innovation to Need
N,P

Will Space Technology be for the Benefit of All Human Kind?
M,X,Y

A Mathematics
B Physics
C Chemistry
D Astronomy
E Geology and Geography
G Biological Sciences
H Anthropology
J Psychology
K Social, Economic, and Political Sciences
L History and Philosophy of Science
M Engineering
N Medical Sciences

O Agriculture, Food, and Renewable Resources
P Industrial Science and Technology
Q Education
R Dentistry and Oral Health Sciences
S Pharmaceutical Sciences
T Information, Computing, and Communication
U Statistics
V Neuroscience
W Atmospheric and Hydrospheric Sciences
X Societal Impacts of Science and Engineering
Y General Interest in Science and Engineering
Z Linguistics and Language Science

Animal, Plant, and Food Sciences

Breakthroughs in Cellulosic Biomass and Transportation Fuels
 Dealing With Deadly Pests Through the Sterile Insect Technique
 From the Bioreactor to the Plate: Addressing Efficiency and Scale Challenges to Algae as Food
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 Issues and Impacts of US Global Food Security Policy and Research
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Anthropology, Culture, and Language

Analyzing Picasso: Scientific Innovation, Instrumentation, and Education
 Brain Plasticity Revisited: How Special Is the Young Brain?
 Cultural and Linguistic Insights From the Study of Immigrant Languages
 Gender in Translation: How Speech Communicates Sex, Gender Identity, and Sexuality
 Sustained Academic, Industry, and Clinician Collaboration in Pre-Competitive Medical Research
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 Visual, Attentional, and Gestural Foundations of Signed Languages

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Applying Earth Science Models and Satellite Observation to Benefit and Engage Society
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 Preparing for Floods and Droughts with NASA's "Scale in the Sky"
 Understanding Causality to Inform Decision-Making Under Uncertainty

Behavioral and Social Sciences

Addressing Systemic and Societal Factors in Germany's Energy Transition
 Balancing Facts and Values in Public Policymaking
 Behavioral Challenges and Solutions to Science-Based Action
 Brain Plasticity Revisited: How Special Is the Young Brain?
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 Economic Analysis of Links Between Patents, Publications, and Policy
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Survey Data Collection: Theoretical and Practical Perspectives
The Importance of Tradeoffs in Managing Food Security
The Role of Conspiracy Theories in Perceptions of Fake News About Science
The Role of National Security in Strengthening the Science and Technology Pipeline
Understanding and Responding to Climate Change Denial
Understanding Causality to Inform Decision-Making Under Uncertainty
Visual, Attentional, and Gestural Foundations of Signed Languages
What Citizens Think About Science: Survey Data and Implications for Communicators

Biological Sciences

Advanced Technology for Oral Health Care: Diagnosis, Prevention, and Treatment
Applying Conservation Genetics and Genomics to Wildlife and Fisheries Management
Applying Insights From Animal Behavior to Address Global Challenges
Applying Mass Spectrometry to Understanding Complex Cellular Processes
Applying the Science of Genomics in Precision Medicine and Cancer Treatment
Assessing Risk From Chemical Exposures: Advances in Technology and Gaps in Application
Asteroids for Research, Discovery, and Commerce
Breakthroughs in Cellulosic Biomass and Transportation Fuels
Constructing Plant Microbiomes to Improve Reproducibility of Experiments
Cuban Biomedical Science: The Role of Science Diplomacy in Translating Cures
Emerging Cancer Immunotherapies: Challenges of Developing Modality-Specific Drugs
Emulating Human Biology: Organ Chips for Drug Development and Personalized Medicine
Evidence for More Versatile Graduate Education and Academic Culture
Evolutionary Arms Races: From Bacteria to Cancer
From New Discoveries to New Treatments for Neurodegenerative Diseases

Future Products of Biotechnology and Needs for Risk Analysis Science
Gene Editing and Human Identity: Promising Advances and Ethical Challenges
Gene Editing for Xenogeneic Organ Production: Regenerating a Patient's Transplantation Organ
Harnessing the Human Microbiome as a Tool for Prevention and Treatment of Disease
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Statistical and Computational Challenges in Genomics and Precision Medicine
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Chemistry

Analyzing Picasso: Scientific Innovation, Instrumentation, and Education
Applying Mass Spectrometry to Understanding Complex Cellular Processes
Assessing Risk From Chemical Exposures: Advances in Technology and Gaps in Application
Constructing Plant Microbiomes to Improve Reproducibility of Experiments
Materials Research for Manufacturing: Lessons from Industry on New Product Development
Solving Materials Science Challenges to Shape Our Energy Future
The Chemistry and Physics of Nascent Planetary Systems
The Science of Art Conservation: Preserving Cultural Heritage Objects
Technological Applications of Chemistry: Stages of Development and Societal Impacts

Communications and Public Programs

Advocating for Public Engagement with Science
Building Public Trust and Fostering Innovation With Transparency
Communication Challenges and Opportunities for Women in STEM
Developing a Narrative About Your Data
Empirical Findings on Science Fairs: Experiencing the Nature of Science

Evaluation and Best Practices for Training in Science Communication

Exploring Perspectives on Open Science and Impacts on Scientific Discovery

Exploring Public Fears and Myths: Vaccine Hesitancy, Food Safety in Fukushima, and Bacteria

Involving Stakeholders to Improve Outcomes: Lessons From the Climate Science Centers

Longer-Term Models for Arctic Sea Ice and Global Earth System Predictions

Natural and Cultural Resource Stewardship: New Scientific Insights and Audiences

Reaching Beyond the Science-Interested Public

Recommendations of the US Commission on Evidence-Based Policymaking

Science Activism: Advancing Science in a New Political Landscape

Understanding and Responding to Climate Change Denial

What Citizens Think About Science: Survey Data and Implications for Communicators

Education

A More Inclusive Science: Examples, Tools, and Strategies

Advancing Interdisciplinary Collaboration With Lessons From the Field

Changing Expectations: The Future of Careers in STEM

Communication Challenges and Opportunities for Women in STEM

Empirical Findings on Science Fairs: Experiencing the Nature of Science

Evidence for More Versatile Graduate Education and Academic Culture

Natural and Cultural Resource Stewardship: New Scientific Insights and Audiences

Overcoming Barriers to Change: Applying Evidence-Based STEM Teaching Strategies

Reimagining the Innovation Ecosystem: Experiments to Maximize the Impact of Hard Tech

Scientific and Engagement Outcomes of the 2017 Total Solar Eclipse

Strategies for Communities and Scientists to Collaborate Effectively

Understanding Your Roots: STEM Diversity and an Evidence-Based Curriculum

Women in STEM at Historically Black Institutions: South Africa and the United States

Energy and Renewable Resources

A Sustainable Energy Future With Next-Generation Low-Cost Solar Cells

Addressing Systemic and Societal Factors in Germany's Energy Transition

Bio-Based Industries Joint Undertaking: A Model for Catalyzing Sustainable Bio-Based Economic Growth

Breakthroughs in Cellulosic Biomass and Transportation Fuels

Energy-Enabling Materials and the Smart Cities of Tomorrow

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Solving Materials Science Challenges to Shape Our Energy Future

Engineering, Industry, and Technology

Additive Manufacturing and 3-D Printing: Medical Technology Applications and Impacts

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Advanced Technology for Oral Health Care: Diagnosis, Prevention, and Treatment

Advancing Biopharmaceutical Manufacturing With Public-Private Partnerships

Analyzing Picasso: Scientific Innovation, Instrumentation, and Education

Artificial Intelligence: Augmenting Not Replacing People

Asteroids for Research, Discovery, and Commerce

Bio-Based Industries Joint Undertaking: A Model for Catalyzing Sustainable Bio-Based Economic Growth

Biomedical Sensors: Advances in Health Monitoring and Disease Treatment

Capturing Dark Matter With Quantum Devices

Closing the Innovation Gap Between Research and Industry

Embracing International Partnerships to Achieve Science-Based Development in Kuwait

Emulating Human Biology: Organ Chips for Drug Development and Personalized Medicine
Energy-Enabling Materials and the Smart Cities of Tomorrow
Evolutionary Arms Races: From Bacteria to Cancer
Exoplanets Everywhere: Discovering and Characterizing Worlds Beyond Our Solar System
Exploring Universal and Industrial Quantum Computing
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Future Products of Biotechnology and Needs for Risk Analysis Science
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Gateway to Discovery: Research Teams Exploring the Edge of Technical Feasibility
Harnessing the Transformative Potential of Photonics Research and Innovation
How Honey Bees Set Web Servers Abuzz
Improvements in Earthquake Science and Risk Reduction
Improving Efficiency in Manufacturing With Information and Communications Technology
LGBTQ+ Identities in STEM Fields: Research and Implications
Materials Research for Manufacturing: Lessons from Industry on New Product Development
New Technologies Emerging From the BRAIN Initiative
Prospects for Long-Term Information Security in the Face of Quantum Computing
Reimagining the Innovation Ecosystem: Experiments to Maximize the Impact of Hard Tech
Rethinking Approaches to Disaster Management and Public Safety With Intelligent Infrastructure
Revolutionizing Ultrasound Applications for Treating Disease
The Role of National Security in Strengthening the Science and Technology Pipeline
Solving Materials Science Challenges to Shape Our Energy Future
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Synthetic Biology: From Technology Development to Risk Governance
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Transforming Cities, Transportation, and Agriculture With Intelligent Infrastructure
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Environment and Ecology

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Applying Earth Science Models and Satellite Observation to Benefit and Engage Society
Constructing Plant Microbiomes to Improve Reproducibility of Experiments
Implications of Water Cycle Science and Technology for Resource Management
Informing Mitigation and Adaptation Options With the Climate Science Special Report
Mathematics of Planet Earth: Superbugs, Storm Surges, and Ecosystem Change
Natural and Cultural Resource Stewardship: New Scientific Insights and Audiences
Overcoming Challenges to Using Environmental Big Data for Conservation
Phytobiome Research to Improve Agricultural Productivity
Understanding Causality to Inform Decision-Making Under Uncertainty
Using Social Networks to Improve Response to Natural Disasters

Geology and Geography

Airborne Laser Mapping Research in Tropical Forests and Archaeological Sites
Finding Water Management Solutions With Artificial Intelligence
Improvements in Earthquake Science and Risk Reduction
The View From Above: Exploring the Future of Drones
Using Real-Time GPS for a Global Tsunami Early Warning System

Global Perspectives and Issues

Applying Insights From Animal Behavior to Address Global Challenges

Building Research Capacity as a Critical Component of International Development
Changing Expectations: The Future of Careers in STEM
Closing the Innovation Gap Between Research and Industry
Cuban Biomedical Science: The Role of Science Diplomacy in Translating Cures
Dealing With Deadly Pests Through the Sterile Insect Technique
Embracing International Partnerships to Achieve Science-Based Development in Kuwait
Emerging Epidemic Pathogens: Basic, Translational, and Social Science
Estimating the Prevalence of Human Trafficking in the United States
Exploring Perspectives on Open Science and Impacts on Scientific Discovery
Exploring Public Fears and Myths: Vaccine Hesitancy, Food Safety in Fukushima, and Bacteria
From the Bioreactor to the Plate: Addressing Efficiency and Scale Challenges to Algae as Food
Harnessing the Transformative Potential of Photonics Research and Innovation
Informing Mitigation and Adaptation Options With the Climate Science Special Report
Instruments of Science and Diplomacy: The Importance of International Research Organizations
Issues and Impacts of US Global Food Security Policy and Research
Migration: A Case for Science Diplomacy
Prospects for Long-Term Information Security in the Face of Quantum Computing
Science for Sustainable Development Goals: Key Lessons and Gaps
Successful Innovation and Commercialization in Industrial Science and Technology
Synthetic Biology: From Technology Development to Risk Governance
Women in STEM at Historically Black Institutions: South Africa and the United States

Health and Pharmaceutical Science

Additive Manufacturing and 3-D Printing: Medical Technology Applications and Impacts
Advanced Technology for Oral Health Care: Diagnosis, Prevention, and Treatment

Advancing Biopharmaceutical Manufacturing With Public-Private Partnerships
Applying the Science of Genomics in Precision Medicine and Cancer Treatment
Assessing Risk From Chemical Exposures: Advances in Technology and Gaps in Application
Biomedical Sensors: Advances in Health Monitoring and Disease Treatment
Cuban Biomedical Science: The Role of Science Diplomacy in Translating Cures
Effective, Safe, and Underutilized: The HPV Vaccine From Development to Implementation
Emerging Cancer Immunotherapies: Challenges of Developing Modality-Specific Drugs
Emerging Epidemic Pathogens: Basic, Translational, and Social Science
Emulating Human Biology: Organ Chips for Drug Development and Personalized Medicine
Evolutionary Arms Races: From Bacteria to Cancer
Exploring Perspectives on Open Science and Impacts on Scientific Discovery
Exploring Public Fears and Myths: Vaccine Hesitancy, Food Safety in Fukushima, and Bacteria
Faster Responses to Epidemics and Bioterrorism With Standardized Product Development
From New Discoveries to New Treatments for Neurodegenerative Diseases
Gene Editing and Human Identity: Promising Advances and Ethical Challenges
Harnessing the Human Microbiome as a Tool for Prevention and Treatment of Disease
Optimal Aging and Mechanisms of Neurocognitive Enrichment
Uncovering Novel Epigenetic Modifications in Neuropsychiatric Diseases

History and Philosophy of Science

Advancing Interdisciplinary Collaboration With Lessons From the Field
Communication Challenges and Opportunities for Women in STEM
The Impact of Sputnik on Science, Technology, and the Public in the United States
Instruments of Science and Diplomacy: The Importance of International Research Organizations

Science Activism: Advancing Science in a New Political Landscape

Information Technology and Computing

Additive Manufacturing and 3-D Printing: Medical Technology Applications and Impacts

Advancing Artificial Intelligence: From the Lab to the Street

Artificial Intelligence: Augmenting Not Replacing People

Experiencing the Future Internet: User-Centered Social Television and Multimedia

Exploring Universal and Industrial Quantum Computing

Finding Water Management Solutions With Artificial Intelligence

Future-Generation Cars and Drivers: Research, Moving to Market, and Policymaking

Gateway to Discovery: Research Teams Exploring the Edge of Technical Feasibility

Harnessing the Transformative Potential of Photonics Research and Innovation

How Honey Bees Set Web Servers Abuzz

Improving Efficiency in Manufacturing With Information and Communications Technology

Overcoming Challenges to Using Environmental Big Data for Conservation

Prospects for Long-Term Information Security in the Face of Quantum Computing

Rethinking Approaches to Disaster Management and Public Safety With Intelligent Infrastructure

The Fourth Industrial Revolution: Supporting Societal Needs With Artificial Intelligence

Transforming Cities, Transportation, and Agriculture With Intelligent Infrastructure

Using Real-Time GPS for a Global Tsunami Early Warning System

International Development

Building Research Capacity as a Critical Component of International Development

Industry and Research Infrastructures as Co-Creators of Innovation

Science Across Borders: Bilateral Collaboration and the UK-China Agri-Tech Project

Science for Sustainable Development Goals: Key Lessons and Gaps

Sustained Academic, Industry, and Clinician

Collaboration in Pre-Competitive Medical Research

Using Real-Time GPS for a Global Tsunami Early Warning System

Women in STEM at Historically Black Institutions: South Africa and the United States

Mathematics and Statistics

A Universe of Discoveries: Progress in Astronomy, Statistics, and Machine Learning

Advanced Data Analysis Techniques for Understanding Brain Function

Advancing Artificial Intelligence: From the Lab to the Street

Estimating the Prevalence of Human Trafficking in the United States

Mathematics of Planet Earth: Superbugs, Storm Surges, and Ecosystem Change

Pre-Election Polling Uncertainty: An Interdisciplinary Analysis

Research and Policy on Voter ID Laws and Voter Participation

Science and the Fair Administration of Justice

Statistical and Computational Challenges in Genomics and Precision Medicine

Survey Data Collection: Theoretical and Practical Perspectives

Translating Engineering and Operations Analyses into Effective Homeland Security Policy

Using Wearable Device Data to Analyze and Improve Physical Activity and Health

Neuroscience

Advanced Data Analysis Techniques for Understanding Brain Function

Connecting Behavior and the Brain to Understand Mental Health

From New Discoveries to New Treatments for Neurodegenerative Diseases

New Technologies Emerging From the BRAIN Initiative

Opioid Addiction: Biology, Psychology, and Social Policy

“To Sleep, Perchance to Dream”: Rewiring the Brain During Sleep

Uncovering Novel Epigenetic Modifications in Neuropsychiatric Diseases

Physics and Astronomy

A More Inclusive Science: Examples, Tools, and Strategies

A Sustainable Energy Future With Next-Generation Low-Cost Solar Cells

A Universe of Discoveries: Progress in Astronomy, Statistics, and Machine Learning

Asteroids for Research, Discovery, and Commerce

Capturing Dark Matter With Quantum Devices

Exoplanets Everywhere: Discovering and Characterizing Worlds Beyond Our Solar System

Exploring Universal and Industrial Quantum Computing Innovation in 2-D: Discovering Novel Materials and Applications

Investigating the Mysteries of Antimatter

Is There a Future for Humanity in Space?

Revolutionizing Ultrasound Applications for Treating Disease

Science Across Borders: Bilateral Collaboration and the UK-China Agri-Tech Project

Scientific and Engagement Outcomes of the 2017 Total Solar Eclipse

The Chemistry and Physics of Nascent Planetary Systems

The Technological Applications of Glass: From Smartphones to Eagle-Eye Vision

Public Policy

Advancing Artificial Intelligence: From the Lab to the Street

Applying Insights From Animal Behavior to Address Global Challenges

Balancing Facts and Values in Public Policymaking

Building Public Trust and Fostering Innovation With Transparency

Changing Expectations: The Future of Careers in STEM

Dealing With Deadly Pests Through the Sterile Insect Technique

Economic Analysis of Links Between Patents, Publications, and Policy

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Estimating the Prevalence of Human Trafficking in the United States

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Gene Editing and Human Identity: Promising Advances and Ethical Challenges

Implications of Evidence About Drug Use Hot Spots, Gerrymandering, and Gang Violence

Industry and Research Infrastructures as Co-Creators of Innovation

Is There a Future for Humanity in Space?

Migration: A Case for Science Diplomacy

Mitigating Methane From Super-Emitters: California Pilot Projects

Overcoming Barriers to Change: Applying Evidence-Based STEM Teaching Strategies

Recommendations of the US Commission on Evidence-Based Policymaking

Reimagining the Innovation Ecosystem: Experiments to Maximize the Impact of Hard Tech

Research and Policy on Voter ID Laws and Voter Participation

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The Impact of Sputnik on Science, Technology, and the Public in the United States

The Role of Conspiracy Theories in Perceptions of Fake News About Science

The Role of National Security in Strengthening the Science and Technology Pipeline

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Subject Interest

Sustainability and Resource Management

- A Sustainable Energy Future With Next-Generation Low-Cost Solar Cells
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- Applying Conservation Genetics and Genomics to Wildlife and Fisheries Management
- Applying Earth Science Models and Satellite Observation to Benefit and Engage Society
- Behavioral Challenges and Solutions to Science-Based Action
- Bio-Based Industries Joint Undertaking: A Model for Catalyzing Sustainable Bio-Based Economic Growth
- Embracing International Partnerships to Achieve Science-Based Development in Kuwait
- Energy-Enabling Materials and the Smart Cities of Tomorrow
- Finding Water Management Solutions With Artificial Intelligence
- Implications of Water Cycle Science and Technology for Resource Management
- Involving Stakeholders to Improve Outcomes: Lessons From the Climate Science Centers
- Issues and Impacts of US Global Food Security Policy and Research
- Materials Research for Manufacturing: Lessons from Industry on New Product Development
- Oil and Water Do Mix: The Fate of Dispersed Oil Droplets in the Sea
- Overcoming Challenges to Using Environmental Big Data for Conservation
- Preparing for Floods and Droughts with NASA's "Scale in the Sky"
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