## AAAS-DC CATEGORIES

BRAIN AND BEHAVIOR		
	1. Chronic Illness Management and Cognitive Science: Translation Beyond Genes?	
	2. Crossing Borders in Language Science: What Bilinguals Tell Us About Mind and Brain	
	3. Cultural Evolutionary Dynamics of Cooperation	
	4. From Artificial Limbs to Virtual Reality: How the Brain Represents the Body	
	5. From Freud to fMRI: Untangling the Mystery of Stuttering	
	6. Hunter-Gatherers and Language Change	
	7. Molecules to Mind: Challenges for the 21st Century	
	8. Nature, Nurture, and Antisocial Benavior: Biological and Biosocial Research on Crime	
	10. Science Behind Improved Foreign Language Expertise: Meeting the Global Challenge	
	<ul> <li>11. The Science of Eating: Perception and Preference in Human Taste</li> </ul>	
	12. Scientific and Ethical Issues for the Surgical Treatment of Psychiatric Disorders	
	13. Thinking About Thinking: How Do We Know What We Know?	
	14. Transatlantic Synergies To Promote Effective Traumatic Brain Injury Research	
	CLIMATE CHANGE	
	15. Adapting to a Clear and Present Danger: Climate Change and Ocean Ecosystems	
	16. Can Reef Fisheries Take the Heat? Ecological and Economic Impacts of Climate Change	
	17. Changing Climate, Changing Approaches: Conservation in the Face of Climate Change	
	18. Climate Change: Altering the Physics, Ecology, and Socioeconomics of Fisheries	
	19. Comparing National Responses to Climate Change: Networks of Debate and Contention	
	20. How Climate Change Affects the Safety of the World's Food Supply	
	21. In Hot Water: Rising Public Health Concerns from Changing Ocean Condition	
	22. Limiting Climate Change: Reducing Black Carbon and Tropospheric Ozone Precursors	
	23. Multidisciplinary Research Infrastructures for Environmental Research	
	<ul> <li>24. Retninking Adaptation to a Changing Global Environment</li> <li>25. Where Ocean Maste Land: Dynamic Sharelines in a Warming World</li> </ul>	
•	EDUCATION	
	26. Aiming for Scientific Literacy by Teaching the Process, Nature, and Limits of Science	
	27. Celebrating Marie Curie's 100th Anniversary of Her Nobel Prize in Chemistry	
	<ul> <li>28. The Challenge of Teaching Evolution in the Islamic world</li> <li>20. Encoding Students in Undergraduate STEM Education with a Ecous on Clobal Stawardship</li> </ul>	
	29. Engaging Students in Undergraduate STEM Education with a Pocus on Global Stewardship	
	<ul> <li>31. Invisible Men? Addressing the Participation of Minority Males in Science and Engineering</li> </ul>	
	<ul> <li>32. Just-In-Time Support for Science Teaching: Asynchronous Web-Based Approaches</li> </ul>	
	33. Learning Research and Educational Practice: How Can We Make Better Connections	
	34. Science Without Borders: Learning from TIMSS Advanced 2008	
	35. Teaching and Learning in the Digital Age: Reliable Resources Across the Disciplines	
	36. Transcending Gender and Ethnic Barriers to Full STEM Participation	
	37. The University of the Future	
•	EMERGING SCIENCE AND TECHNOLOGY	
	38. Aeroecology: Transcending Boundaries Among Ecology, Meteorology, and Physics	
	39. Biological Role and Consequences of Intrinsic Protein Disorder	
	40. Bioprinting: A Future of Regenerative Medicine	
	<ul> <li>41. Building on the Legacy of Marie Curie</li> </ul>	
	42. Chemically Speaking: How Organisms Talk to Each Other	
	- 45. Explaining mase transitions 44. First Physics from the Large Hadron Collider	
	45. Growth and Form in Mathematics. Physics and Riology	
	<ul> <li>46. Mathematics and Collective Behavior</li> </ul>	
	<ul> <li>47. Matter Wave Magic and Technology</li> </ul>	
	48. Nanoworld, Megaproblems? The Impact of Nanotechnology on the Environment and Society	
	49. Sharper Images in Astronomy, Microscopy, and Vision Science Using Adaptive Optics	
	50. Superconductivity: From 1911 to 2021	
	51. Through the Looking Glass: Recent Adventures in Antimatter	
	52. Use of Lasers in Surgery, Regenerative Medicine, and Medical Device Fabrication	

-	ENERGY
	53. Biorefinery: Toward an Industrial Metabolism
	54. Deepwater Horizon Oil Spill
	55. Energy Efficiency in Europe and the United States: Success Stories and Potential
	56. The Energy and Water Nexus: Turning a Double Problem into a Solution
	57. Fractures Developing: The Science, Policy, and Perception of Shale Gas Development
	58. If Termites Can Do It, Why Can't Humans?
	59. Mathematics and Our Energy Future
	60. Pillars, Polymers, and Computers: Creative Approaches for Electrical Energy Storage
	61. Portraits of the California Energy System in 2050: Cutting Emissions by 80 Percent
	62. Energy Efficiency in Europe and the United States: Success Stories and Potential
	63. Powering the Planet: Generation of Clean Fuels from Sunlight and Water
	64. Waste Not, Want Not: Waste as the World's Most Abundant Renewable Resource
•	GLOBAL COLLABORATION
	65. Bridging Nations and Fields: East Asian Approaches to Science and Technology Policy
	66. Bringing Innovation to International Development: New Actors, New Mechanisms
	67. Can Global Science Solve Global Challenges?
	68. Cross Border Responses to Global Challenges: Can Everybody Win?
	69. Crossing Boundaries and Opening Borders: The European Research Council as Innovation
	70. The Crowd and the Cloud: The Future of Online Collaboration
	71. Education, Science, and Innovation as Tools for New Engagement with the Islamic World
	<ul> <li>72. Europe, Africa, and Asia: Rising on the Same Lide</li> <li>73. Earsian Derticination in National Technology Development Dragrams</li> </ul>
	<ul> <li>73. Foreign Participation in National Technology Development Programs</li> <li>74. International Territory: Science at Soa, Science in Space, and Science at the Bolos.</li> </ul>
	<ul> <li>74. International Territory. Science at Sea, Science in Space, and Science at the Poles</li> <li>75. Joining Global Efforts in Post-Disaster Recovery and Reconstruction</li> </ul>
	<ul> <li>76. Networks: Collaboration, and Research in a Non-Western Context: The Role of Technology.</li> </ul>
	<ul> <li>77. The Practice of Science Diplomacy in the Earth Sciences</li> </ul>
	<ul> <li>78. Research Integrity in Global Perspective</li> </ul>
	79. Role of U.S. Federal Agencies in Building Scientific Capacity in Developing Countries
	HUMAN BIOLOGY AND HEALTH
	80. Anthropology and Global Health: Genes, Biology, and Culture
	81. Diseases Without Borders: Tuberculosis and AIDS
	82. Epigenetic Processes in Development: Gene-Environment Interplay
	83. Evolutionary Personalized Medicine
	84. Global Health Care: Advances and Challenges
	85. The Human Body as Supra-Organism, Microbial Observatory, and Ecosystem at Risk
	86. Humans Without Borders: Evolutionary Processes at Work in Humans and Their Relatives
	87. Interfering with Gene Expression and Interfering with Disease
	88. Medicine Safety in a World of Science Without Borders
	89. One Health: From Ideas to Implementation, Rhetoric to Reality
	90. Oral Clefts; Equal Opportunity Disorders
	91. Oral Sex Is Sex and Can Lead to Cancer
	92. Personalized Medicine: Moving Forward or Backward?
	94 The Surprising Influenza H1N1 Pandemic, Wayes Land II: The Pace To Vaccinate
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	<ul> <li>55. 2050: Will There be FISH in the Ocean?</li> <li>96. Boyond Lines on Mans: Marine Spatial Planning for a Dynamic World</li> </ul>
	So. Beyond Lines on waps, warme Spatial Planning for a Dynamic world
	<ul> <li>98 From Practice to Theory and Back: Ecosystem Services and Marine Snatial Planning</li> </ul>
	99. Genetically Modified Crop Regulations: Safety Net or Insurmountable Obstacle?
	100. Global Agricultural History: Mapping the Past for Modeling the Future
	101. Global and Local Responses to the Nitrogen Challenge: Science, Practice, and Policy
	102. Invasive Species: What Harm Do They Do?
	103. Lost at Sea: Where Are the Humans in Marine Ecosystem Management?
	104. Marine Spatial Planning: A Science-Based Tool for Conservation and the Economy
	105. A New Vision for Research: Goals for the National Institute of Food and Agriculture
	106. Norman Borlaug's Impact on World Agriculture; Will There Be a Second Green Revolution?
	107. Plant Breeding Today: Genomics and Computing Advances Bring Speed and Precision

•	THE SCIENCE ENDEAVOR
	108. As Borders Dissolve, Which Standards and Mechanisms Prevail?
	109. Crisis Averted? How a Critical Shortage in Helium-3 Was Good and Bad for Science
	110. Design Thinking To Mobilize Science, Technology, and Innovation for Social Challenges
	111. The Digitization of Science: Reproducibility and Interdisciplinary Knowledge Transfer
	112. It Is Unethical Not to Do Research with Animals
	113. Measurements as a Cornerstone of Global Trade and Quality of Life
	114. Modeling Across Millennia: Interdisciplinary Paths to Ancient Socionatural Systems
	115. Networks and Culture of Scientific and Technological Communities in Global Policy
	116. Perspectives on Research and Development in the President's FY 2012 Budget Request
	117. Publication Without Borders: Spanning Countries, Disciplines, Audiences, and Roles
	118. Reaching a Global Standard in Research Integrity
	119. Solving the Weight of Evidence Problem: A Way Forward?
•	SCIENCE AND SOCIETY
	120. Astronomical Pioneering: The Implications of Finding Other Worlds
	121. Communicating Diversity in Science: Implications for Climate Change Denial
	122. Communication Outside the Box
	123. Crossing Boundaries with Citizen Science
	124. Doing Good with Good OR: Applying Operations Research for Societal Impact
	125. Earth Science and Evolution
	<ul> <li>126. Earthwatch and the HSBC Climate Partnership: A Unique Citizen Science Model</li> </ul>
	<ul> <li>127. Evangelicals, Science, and Policy: Toward a Constructive Engagement</li> <li>120. Evangelicals, Science, and Policy: Toward a Constructive Engagement</li> </ul>
	128. Innovative Strategies for Ensuring Access to the Benefits of Scientific Progress
	129. Reaching Out to People in East-Asia on Green Issues: Policies and Practices
	130. Science without Borders and Media Unbounded: what Comes Next?
	131. Surprise It's Science: Reaching New Addiences in Onconventional ways with restivals
	132. Techno-Optimism of Pessinism's media coverage of quick rises for Global Climate Change
	<ul> <li>134. When Pollution Gets Personal: Ethics of Reporting on Human Exposures</li> </ul>
	SECURITY
	135 Atomic Detectives: Science Behind International Efforts To Combat Nuclear Terrorism
	<ul> <li>136 International Neighborhood Watch: Citizen Scientists and International Security</li> </ul>
	<ul> <li>137. New START and Nuclear Winter: Climatic Consequences of the Nuclear Weapons Agreement</li> </ul>
	138. Promoting Security and Sustaining Privacy: How Do We Find the Right Balance?
	139. Reconciling National Security Requirements with Research and Education
	140. Science and Policy for Environmental Security in the Asia-Pacific Region
	141. Space Weather: The Next Big Solar Storm Could Be a Global Katrina
	142. Using Quantitative Content Analysis To Assess the Likelihood of Terrorist Violence
	143. White-Blue Arctic: Promoting Cooperation and Preventing Conflict in the Arctic Ocean
	SUSTAINABILITY
	144. The Challenge of Measuring Sustainability
	145. Data Cocktails for Biodiversity: Protected Area Management Without the Hangover
	146. Estimating Earth's Human Carrying Capacity
	147. How Can the World Feed 9 Billion People by 2050 Sustainably and Equitably?
	148. If a "Culture of Growth" Is Unsustainable, What Should Change?
	149. Mapping and Disentangling Human Decisions in Complex Human-Nature Systems
	150. Resource Use and Ecological Resilience in a Tropical Socio-Ecological System
	151. Social Networks and Sustainability
	152. Telecoupling of Human and Natural Systems