



His Serene Highness Prince Albert II of Monaco



FINAL SUMMARY

ANTARCTIC TREATY SUMMIT

Science-Policy Interactions In International Governance

**Smithsonian Institution
November 30 – December 3, 2009**

Successful implementation of the Antarctic Treaty Summit at the Smithsonian Institution from 30 November to 3 December 2009 (www.atsummit50.aq) is reflected the final agenda (Appendix 1). The Antarctic Treaty Summit involved nearly 200 participants from 27 nations. Sponsorships and endorsements for the Antarctic Treaty Summit came from 39 organizations around the world. The main results from the Antarctic Treaty Summit are:

Congressional Resolution that Encouraged Collaboration in the Antarctic Treaty Summit

Recognizing the 50th Anniversary of the Signing of the Antarctic Treaty” was adopted with unanimous consent by the United States House of Representatives (H. Con. Res. 51 – <http://thomas.loc.gov/cgi-bin/query/z?c111:H.CON.RES.51>) and the United States Senate (S. Res. 365 – <http://thomas.loc.gov/cgi-bin/query/z?c111:S.RES.365>) during the first session of the 111th Congress in 2009, as published in the *Congressional Record*.

Keynote Addresses at the Antarctic Treaty Summit:

- HSH Prince Albert II, Head-of-State for Monaco (most recent Antarctic Treaty signatory), delivered the Opening Keynote Address at the Antarctic Treaty Summit
- United Nations Secretary-General, His Excellency Ban Ki-moon, delivered a video-taped address to the Antarctic Treaty Summit on 1 December 2009 – 50th anniversary of the Antarctic Treaty

Publications that refer to the Antarctic Treaty Summit in Peer-Reviewed Journals:

- Berkman, P.A. 2010. Biodiversity Stewardship in International Spaces. *Systematics and Biodiversity* (in press)
- Berkman, P.A. 2010. Common interests in the international space of Antarctica. *Polar Record* 46(1):7-9.
- Berkman, P.A..2009. International Spaces Promote Peace. *Nature* 462:412-413.
- Berkman, P.A. 2009 Antarctic Treaty Summit: Science-Policy Interactions in International Governance. IN: Alfredsson, G. Koivurova, T. and Leary, D.K. (eds.). *Yearbook of Polar Law. Volume 1*. Pp. 511-525.
- Berkman, P.A., Walton, D.W.H. and Weiler, S. 2008. Antarctic Treaty Summit to Focus on Global Science Policy Lessons. *Transactions of the American Geophysical Union (EOS)* 89(42):406.
- Grimaldi, A. 2009. Governance at Both Poles. *Science* 326: 1042.
- Stein, G.M. 2010. The Antarctic Treaty Summit Medal. *Polar Record* 46(3):281-282.
- Walton, D.W.H. 2009. The Antarctic Treaty Summit. Editorial. *Antarctic Science* 21:539.

Edited Book with Lessons Learned from the Antarctic Treaty Summit:

Berkman, P.A., Lang, M.A., Walton, D.W.H. and Young, O.R. (eds.). *Science Diplomacy: Antarctica, Science and the Governance of International Spaces*. Smithsonian Institution Scholarly Press, Washington, D.C. (in press): with 23 chapters and 11 vignettes along with a Foreword by HSH Prince Albert II and other items.

International Essay Contest for the Antarctic Treaty Summit

- Coordinated by the Association for Polar Early Career Scientists with winning essays from Australia, South Korea and United States (http://www.scar.org/news/polar/APECS_Treaty_Essay_Comp.pdf)

Mini-Documentaries, Blogs and News Articles (for example):

- www.youtube.com/antarctic treaty;
- www.nwaterp.com/transfers/ATS_V4_2.mov;
- <http://blogs.nationalgeographic.com/blogs/news/chiefeditor/2009/10/antarctic-treaty-at-50.html>.

Planning and implementation stages of the Antarctic Treaty Summit are reflected in Figure 1 (below).

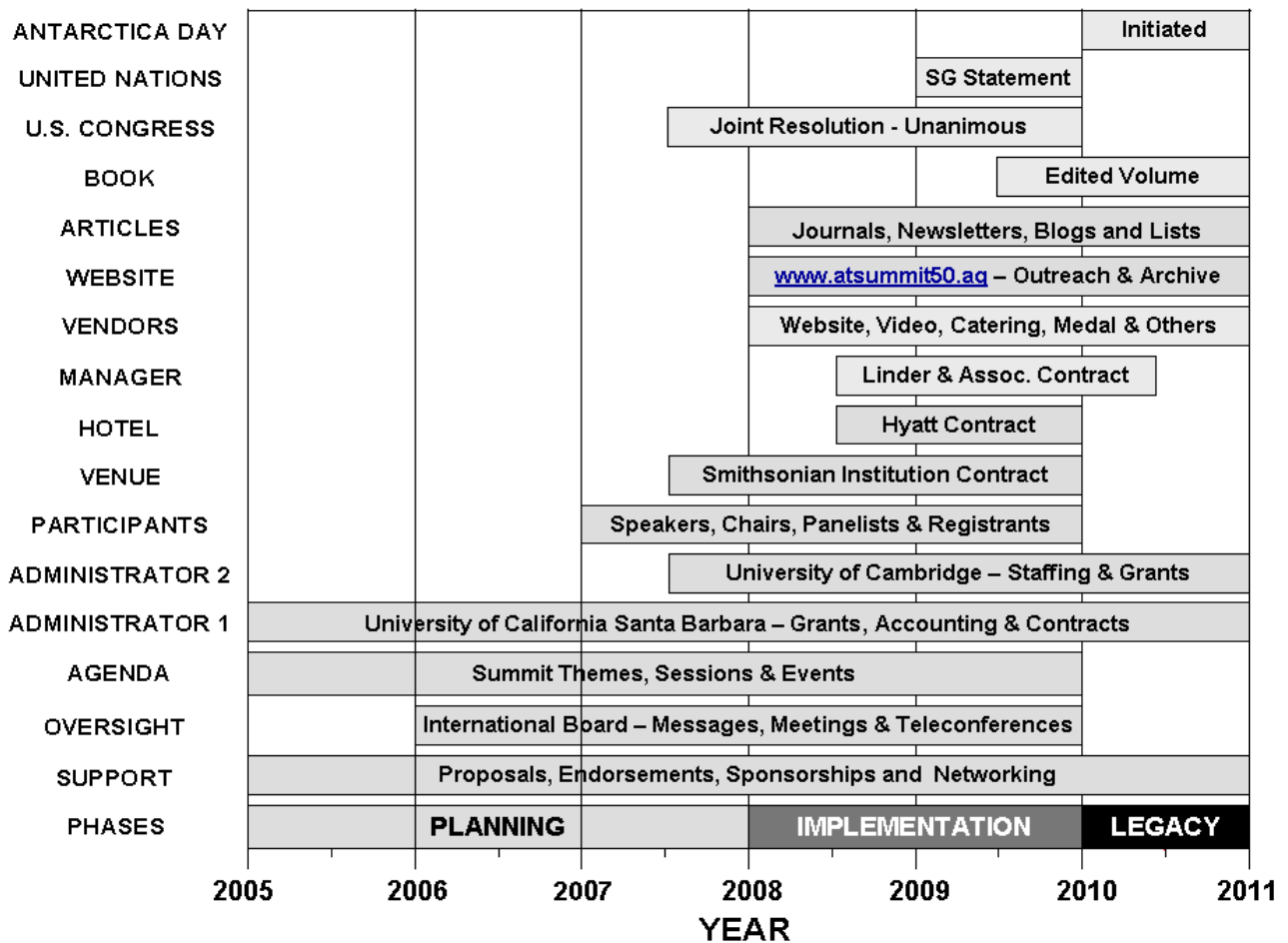


FIGURE 1: Global summary of activities for the planning and implementation phases of the *Antarctic Treaty Summit: Science-Policy Interactions in International Governance* (www.atsummit50.aq), which was convened at the Smithsonian Institution from 30 November – 3 December 2009, with the legacy phase continuing into the future. The actual planning for the Antarctic Treaty Summit began before 2005 and the legacy activities are anticipated to extend beyond 2011.

The main results of the Antarctic Treaty Summit are described in Item 1 (above). The legacy products of the Antarctic Treaty Summit will include: **(1)** various presentations at international meetings; **(2)** the internet archive of digital materials from the Antarctic Treaty Summit (www.atsummit50.aq); and **(3)** ongoing publications, especially the edited book that is being published by the Smithsonian Institution Scholarly Press. In addition, a significant legacy of the Antarctic Treaty Summit is the **Antarctica Day**, which will continue each year on December 1st – “the day in 1959 when our civilization set aside nearly 10% of our home planet for “peaceful purposes only.” Antarctica Day is being coordinated by the *Foundation for the Good Governance of International Spaces* (www.ourspace.org.uk) with initial funding from the *Marine Mammal Commission* (www.mmc.gov) and partnership with the *Commonwealth Foundation* (www.commonwealthfoundation.com/).

Main goals of the Antarctic Treaty Summit were to identify lessons, stories and precedents from the Antarctic Treaty System that have legacy value for the wise governance and rational use of regions and resources beyond national jurisdictions. It was anticipated that broad societal awareness about the Antarctic Treaty would emerge from the international presentations, multimedia dissemination and networking.

Figures 2 and 3 demonstrate that broad societal awareness was achieved with nearly 400,000 visits to the Antarctic Treaty Summit website (www.atsummit50.aq) between April 2009 and February 2010 from more than 100 nations. Broad international engagement in the Antarctic Treaty Summit is further reflected by the participants from 27 nations and support from 39 organizations around the world (see Table 1).

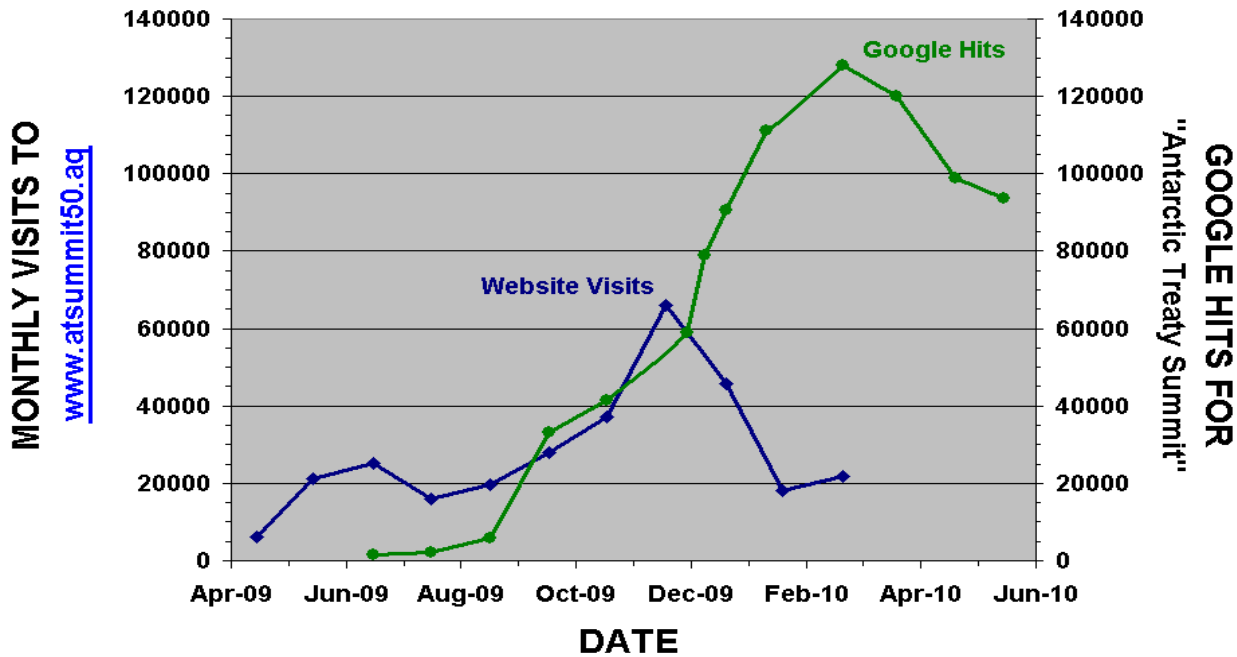


FIGURE 2: Two independent metrics of internet engagement with the Antarctic Treaty Summit website (www.atsummit50.aq). **Monthly total visits** to the website exceeded 60,000 during the period of the Antarctic Treaty Summit (30 November – 3 December 2009). **Number of ‘hits’ on Google** (www.google.com) for the term “Antarctic Treaty Summit” in quotes, which was searched on various dates, exceeded 120,000 in March 2010, reflecting the broad momentum of international interest following the Antarctic Treaty Summit.

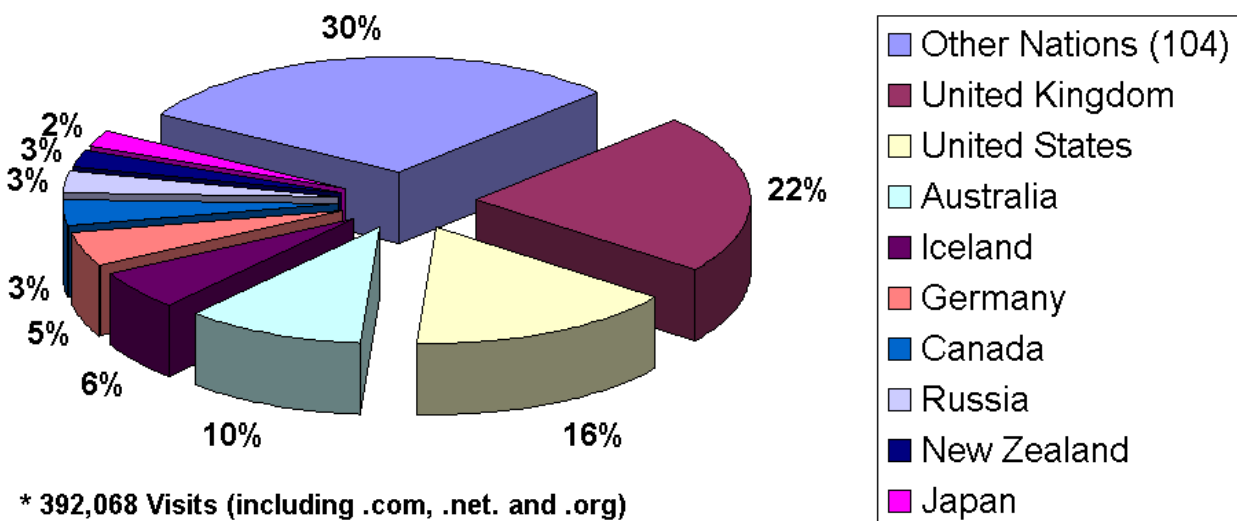


FIGURE 3: International demographics of all visits (sum of monthly visits in Figure 2) to the Antarctic Treaty Summit website (www.atsummit50.aq) for the period of April 2009 to February 2010.

The quality of the global outreach from the Antarctic Treaty Summit is reflected by the products that are described in Item 1 (above). These and other products from the Antarctic Treaty Summit (i.e., video files, audio files, powerpoint files and text files) will be searchable from the current website (www.atsummit50.aq), which is being re-engineered into an stable archive that will be publicly accessible in Fall 2010 and online for at least the next 5 years. Creation of this archive is provided by funding from the Marine Mammal Commission.

The international, interdisciplinary and inclusive spirit of this golden anniversary celebration for the Antarctic Treaty stemmed from the collaboration among its **Board Members**: Prof. Paul Arthur Berkman (Chair, United States); Dr. Maj De Poorter (New Zealand); Prof. Edit Fanta (Brazil); Dr. Marie Jacobsson (Sweden); Dr. Yeadong Kim (Republic of Korea); Mr. Michael Lang (United States); Dr. José Retamales (Chile); Prof. David W.H. Walton (Vice-Chair, United Kingdom); Judge Rüdiger Wolfrum (Germany); Prof. Oran R. Young (United States); and Prof. Abdul Hamid Zakri (Malaysia). We gratefully acknowledge the nearly 200 participants from the 27 nations who contributed to the Antarctic Treaty Summit as well as the 39 national or international government agencies; non-governmental organizations; foundations; corporations; and universities from around the world that made this celebration a success.

We thank the following three **Summit Benefactors** who provided essential support for the Antarctic Treaty Summit. With continuous enthusiasm from the start, the Tinker Foundation enabled the overall Summit planning and implementation and we are grateful for the support from Ms. Renate Rennie (Chief Executive Officer and President). The Prince Albert II of Monaco Foundation (Monaco Office) provided key support for the speakers and panelists to attend this event in Washington, DC and we gratefully acknowledge the personal involvement from His Serene Highness Prince Albert II. Without enthusiastic support from the Smithsonian Institution, through the Office of the Under-Secretary for Science and the Office of Special Events and Protocol, we would not have had use of the prestigious National Museum of Natural History and National Air and Space Museum as well as timely publication of this book and we especially thank Dr. G. Wayne Clough (12th Secretary) for his commitment to the Summit activities.

We thank the **Summit Patrons** who supported key elements of the Antarctic Treaty Summit. The United States Marine Mammal Commission supported the website and subsequent archive (<http://www.atsummit50.aq>) as well as a mini-documentary about the Antarctic Treaty System and other outreach strategies. The Office of Polar Programs at the United States National Science Foundation supported the poster session and video interviews that were integrated into mini-documentary about the lasting values of the Antarctic Treaty for humankind. TransPolar (a Raytheon / AECOM company) supported the gala at the National Air and Space Museum on the 50th anniversary of the Antarctic Treaty. The Prince Albert II of Monaco Foundation (United States Office) contributed to the audio-visual logistics for the plenary presentations and panel discussions as well as the performance by the Keystone State Boychoir. The Eisenhower Institute at Gettysburg College contributed to the lunches and coffee breaks that promoted interactions among participants. The United States – United Kingdom Fulbright Commission supported critical coordination and networking through the University of Cambridge.

We thank the **Summit Sponsors** who contributed to the diverse participation and logistics for the Antarctic Treaty Summit. Contract management was through the University of California Santa Barbara (Bren School of Environmental Science & Management) with additional fiscal administration by the University of Cambridge (Scott Polar Research Institute). The following organizations contributed to the travel, lodging and registration costs of participants: American Geophysical Union; Foundation for the Good Governance of International Spaces; Greenpeace; Japan Polar Research Association; KBR; Korean Polar Research Institute; Korea Supporters Association for Polar Research; Lindblad Expeditions; Pew Charitable Trusts; Stanford

University (Department of Earth Sciences); United Nations Environmental Programme; Universiti Sains Malaysia (Centre for Global Sustainability Studies); and World Wildlife Fund – Australia (Antarctica and Southern Ocean Initiative). The Association for Polar Early Career Scientists conducted the Antarctic Treaty essay contests (which involved submissions from twelve nations) and The Explorers Club covered the costs for the winning essayist. The United States Geological Survey covered the costs of the musical performance by *Rive Gauche* at the gala. The Arctic Governance Project and Aspen Institute (Dialogue and Commission on Arctic Climate Change) contributed to the workshop on Antarctic lessons for the Arctic. The Scientific Committee on Antarctic Research contributed to the workshop on the history of international spaces.

We thank the organizations that provided key outreach through their **Summit Endorsements**: American Association for the Advancement of Science; Fulbright Academy of Science and Technology; International Council of Science / World Meteorological Organization Joint Committee for the International Polar Year; National Geographic Society; The Royal Society; United Nations University (Institute of Advanced Studies); United States House of Representatives; and the United States Senate.

Finally, such a complex meeting could not have been executed so smoothly without professional assistance of the highest order and we thank Linder & Associates for their excellent event management.

APPENDIX 1

FINAL AGENDA – ANTARTIC TREATY SUMMIT

DAY 1 – MONDAY, 30 NOVEMBER 2009

SCIENCE AS A TOOL OF DIPLOMACY IN THE ANTARCTIC TREATY SYSTEM

The first day will explore the origin, evolution and resilience of the Antarctic Treaty System that emerged from the success of the International Geophysical Year. Recognizing that the Antarctic Treaty has grown from a purely intergovernmental meeting to one with a much wider range of participants, the following sessions present a number of key themes and through discussion and posters will explore interactions among the diverse Antarctic stakeholders in the global community.

08:00-17:00 NATIONAL MUSEUM OF NATURAL HISTORY, BAIRD AUDITORIUM

08:00 REGISTRATION

08:45 OPENING CEREMONIES – Chaired by Professor Paul Berkman (Chair of the International Board for the Antarctic Treaty Summit)

- Welcome from Officials
 - Dr. G. Wayne Clough (Secretary of the Smithsonian Institution, United States)
 - Dr. Nina Fedoroff (Science & Technology Adviser to the Secretary of State, Department of State, United States)

09:15 KEYNOTE OPENING ADDRESS

- “Humankind and Our Polar Regions” – HSH Prince Albert II of Monaco

10:00 COFFEE

- Group Photo with Speakers and Panellists
-

10:30 PLENARY 1 – ORIGIN OF THE ANTARCTIC TREATY: Chaired by Dr. Olav Orheim (Senior Adviser, Research Council of Norway and Former Chair of the Committee on Environmental Protection, Norway)

- “Historic Perspectives of Antarctic Claimant and Non-claimant Nations” – Professor Gillian Triggs (Dean of Law School, University of Sydney, Australia)
- “Parallel Agendas for the International Geophysical Year ” – Dr. Cornelia Lüdecke, (Privatdozent, Centre for the History of Science, University of Hamburg, Germany)
- “President Eisenhower and the Antarctic Treaty” – Professor Paul Berkman (Head of Arctic Ocean Geopolitics Programme, Scott Polar Research Institute, University of Cambridge, United Kingdom; Research Professor, Bren School of Environmental Science and Management, University of California Santa Barbara, United States)

11:45 PANEL 1 – Moderated Panel Discussion

CHAIR – Dr. Olav Orheim (Norway)

PANELLISTS –, Professor Paul Berkman (United States), Professor Aant Elzinga (Professor Emeritus, Department of Theory of Science, University of Gothenburg, Sweden), Dr. Roger D. Launius (Senior Curator of the NASM Division of Space History Smithsonian Institution, United States), Dr. Cornelia Lüdecke (Germany), Dr. Ernest Frederick Roots (Science Advisor Emeritus to Environment Canada, Canada), Professor Gillian Triggs (Australia)

12:25 YOUNG SCHOLAR ESSAY: Ms. Jaehee Kim (Minjok Leadership Academy, South Korea) – 3rd Place Winner of the Association of Polar Early Career Scientists (APECS) Essay Contest

12:30 LUNCH

13:30 PLENARY 2 – DEVELOPMENT OF THE ANTARCTIC TREATY SYSTEM: Chaired by Dr. Michael Richardson (Former Head of Polar Regions Section, Foreign & Commonwealth Office, United Kingdom)

- “Building the International Legal Framework for Antarctica” – Dr. Marie Jacobsson, (Principal Legal Advisor on International Law, Ministry for Foreign Affairs, Sweden)
- “Development of Antarctic Governance” – Ambassador R. Tucker Scully (Former Director, Office of Ocean Affairs, Department of State, and Chair of the 32nd Antarctic Treaty Consultative Meeting, United States)
- “International Antarctic Science: The Scientific Committee on Antarctic Research” – Professor David Walton (Professor Emeritus, British Antarctic Survey, Cambridge, United Kingdom)

14:45 COFFEE

15:15 PANEL 2 – Interactive Panel Discussion with Questions from the Audience

CHAIR – Dr. Michael Richardson (United Kingdom)

PANELLISTS – Professor Hugo Declair (Professor Emeritus, Department of Geography Faculty of Sciences, Vrije Universiteit, Belgium), Dr. Marie Jacobsson (Sweden), Ambassador R. Tucker Scully (United States), Professor David Walton (United Kingdom)

16:15 OPEN DISCUSSION TO FINALIZE THE *FOREVER DECLARATION*: Chaired by: His Excellency Ambassador Jorge Berguño (Council for Antarctic Policy, Ministry of Foreign Affairs and Former Ambassador to the United Nations, Chile); Dr. Michael Richardson (United Kingdom); and Judge Rüdiger Wolfrum (Director, Max Planck Institute for Comparative Public Law and International Law and Former President, International Tribunal for the Law of the Sea, Germany)

17:00 PERFORMANCE – Keystone State Boychoir (Pennsylvania, United States)

DAY 2 – TUESDAY, 1 DECEMBER 2009

SCIENCE-POLICY INTERFACE IN THE ANTARCTIC TREATY SYSTEM

The second day – the 50th anniversary of the signing of the Antarctic Treaty – will celebrate this unique international agreement and offer participants the chance to sign the *For Ever Declaration that Antarctica is a Beacon of Peace*. The sessions will explore some of critical contributions of the Antarctic Treaty System to global science, examine its remarkable levels of international co-operation at all levels and discuss some of its challenges for the future.

08:00-17:00 NATIONAL MUSEUM OF NATURAL HISTORY, BAIRD AUDITORIUM

08:45 VIDEO MESSAGE ON THE 50TH ANNIVERSARY OF THE SIGNING OF THE ANTARCTIC TREATY: His Excellency Ban Ki-moon (Secretary-General of the United Nations)

08:55	<p>CELEBRATORY SIGNING OF THE FOREVER DECLARATION: Chaired by His Excellency Ambassador Jorge Berguño (Council for Antarctic Policy, Ministry of Foreign Affairs and Former Ambassador to the United Nations, Chile)</p> <ul style="list-style-type: none"> Initial Signatories: HSH Prince Albert II of Monaco; Members of the International Board for the Antarctic Treaty Summit; and the Declaration Drafting Committee Open for Digital Signature by Anyone Anywhere in the World (www.atsummit50.aq)
09:15	<p>PLENARY 3 – ANTARCTICA'S ROLE IN GLOBAL SCIENCE: Chaired by Dr. Sergio Marensi (Director of Science, Argentine Antarctic Institute, Argentina)</p> <ul style="list-style-type: none"> "The Ozone Hole and its Implications" – Dr. Susan Solomon (Senior Scientist, National Oceanic and Atmospheric Administration, United States) "Antarctica's Role in Global Climate over Different Time Scales" – Dr. Jean-Robert Petit, Directeur de Recherche, Center National de la Recherche, France "Cosmology from Antarctica" – Dr. Antony Stark (Scientist, Harvard-Smithsonian Center for Astrophysics) "Southern Ocean in the Earth System" – Dr. Stephen Rintoul (CSIRO Fellow, Commonwealth Scientific and Industrial Research Organisation, Australia)
10:45	<p>COFFEE</p> <ul style="list-style-type: none"> Group Photo with All Summit Participants
11:15	<p>PANEL 3 – Interactive Panel Discussion with Questions from the Audience CHAIR – Dr. Sergio Marensi (Argentina) PANELLISTS –Dr. Anders Karlqvist (Director, Swedish Polar Research Secretariat, Sweden), Dr. Jean-Robert Petit (France), Dr. Stephen Rintoul (Australia), Dr. Susan Solomon (United States), Dr. Antony Stark (United States); Professor Jörn Thiede (Former Director, Alfred-Wegener Institutes for Polar and Marine Research, Germany; Former President, Scientific Committee on Antarctic Research, Germany),</p>
11:55	<p>YOUNG SCHOLAR ESSAY: Ms. Kate Harris (Massachusetts Institute of Technology, United States) – 1st Place Winner of the APECS Essay Contest and Winner of The Explorers Club Sponsorship</p>
12:00	<p>LUNCH</p>
13:00	<p>PLENARY 4 – SCIENTIFIC ADVICE IN THE ANTARCTIC TREATY SYSTEM: Chaired by Dr. Yeadong Kim (Former Director of the Korean Polar Research Institute, Republic of Korea)</p> <ul style="list-style-type: none"> "Sustainable Management in the Southern Ocean" – Professor Denzil Miller, (Institute of Antarctic and Southern Ocean Studies, University of Tasmania, Hobart Australia) "Managing the Antarctic Environment – National and International Responsibilities" – Dr. Olav Orheim (Senior Adviser, Research Council of Norway and Former Chair of the Committee on Environmental Protection, Norway) "New Frontiers and Future Directions in Antarctic Research" – Professor Mahlon C. Kennicutt II (Professor, Department of Oceanography, Texas A & M University and President, Scientific Committee on Antarctic Research, United States)
14:15	<p>PANEL 4 – Interactive Panel Discussion with Questions from the Audience CHAIR – Dr. Yeadong Kim (Director Emeritus, Korean Polar Research Institute, Republic of Korea) PANELLISTS – Professor Mahlon C. Kennicutt II (United States), Mr. Michael Lang (Director, Smithsonian Marine Science Network; Director, Smithsonian Scientific Diving program; Office of the Under Secretary for Science, Smithsonian Institution, United States); Professor Denzil Miller (Australia), Dr. Olav Orheim (Norway); Dr. Peter Prokosch (Managing Director, United Nations Environmental Programme / GRID-Arendal, Norway)</p>
15:00	<p>COFFEE</p>
15:30	<p>PLENARY 5 – INTERNATIONAL COOPERATION IN ANTARCTICA: Chaired by Professor A.H. Zakri (Director of the Centre on Global Sustainability Studies, Universiti Sains; Vice President, Third World Academy of Sciences; Former Director, United Nations University – Institute of Advanced Studies, Malaysia)</p> <ul style="list-style-type: none"> "Addressing Global Science Questions Through International Collaboration" – Dr. Karl Erb (Director, Office of Polar Programs, National Science Foundation, United States) "The importance of Logistics and the role of COMNAP" – Dr. José Retamales, (Director, Chilean Antarctic Institute and Chair of the Council of Managers of National Antarctic Programs – COMNAP, Chile) "The ATCM: Where is it Headed after Establishment of the Antarctic Treaty Secretariat?" – Mr. Jan Huber (Former Executive Secretary, Antarctic Treaty Secretariat, The Netherlands) "Public Participation in Antarctica: Role of Non-Governmental Organizations" – Dr. Harlan Cohen (Advisor on Ocean Governance and International Institutions, International Union for the Conservation of Nature, United States)
16:45	<p>PANEL 5 – Interactive Panel Discussion with Questions from the Audience CHAIR – Professor A.H. Zakri (Malaysia) PANELLISTS –Dr. Harlan Cohen (New Zealand), Dr. Karl Erb (United States), Mr. Jan Huber (Netherlands), Ms. Denise Landau (Former Executive Director, International Association of Antarctica Tour Operators, United States), Dr. Timothy McCoy (Curator-in-Charge, National Meteorite Collection, Smithsonian Institution, United States), Dr. José Retamales (Chile)</p>
19:30-22:00	<p>NATIONAL AIR AND SPACE MUSEUM</p>
19:30-22:00	<p>GOLDEN ANNIVERSARY GALA FOR THE ANTARCTIC TREATY – SPONSORED BY TRANSPOLAR (A RAYTHEON / AECOM COMPANY) AND THE EISENHOWER INSTITUTE OF GETTYSBURG COLLEGE</p>
20:15-20:35	<p>GALA PRESENTATIONS</p> <ul style="list-style-type: none"> Introductions – Professor Paul Berkman (Chair, International Board for the Antarctic Treaty Summit) Race for Space Hall of the National Air and Space Museum – Dr. Roger D. Launius (Senior Curator of the NASM Division of Space History Smithsonian Institution) Smithsonian Institution Welcome – Dr. Scott Miller (Acting Under Secretary for Science, Smithsonian Institution) Summit Sponsor Welcome - Mr. Sam Feola (President, TransPolar) Reminiscences of President Dwight D. Eisenhower – Ms. Susan Eisenhower (Chairman Emeritus of the Eisenhower Institute and Grand-daughter of President Eisenhower) Tinker Foundation – Martha Muse Prize for Antarctic Policy and Research – Ms. Renate Rennie (Chairman and President, The Tinker Foundation)
19:30-22:00	<p>POSTER SESSION – SPONSORED BY THE UNITED STATES NATIONAL SCIENCE FOUNDATION</p>
19:30-22:00	<p>ANTARCTIC MUSIC BY RIVE GAUCHE – SPONSORED BY THE UNITED STATES GEOLOGICAL SURVEY AND STANFORD UNIVERSITY SCHOOL OF EARTH SCIENCES</p>

DAY 3 – WEDNESDAY, 2 DECEMBER 2009**SCIENCE AND THE GOVERNANCE OF INTERNATIONAL COMMONS**

These sessions will explore the interplay of the Antarctic Treaty and other international institutions that are being adopted to manage human activities on a planetary scale, consider the lessons from the Antarctic Treaty, and recognize the importance of science in providing a sound basis for managing our future.

09:00-17:30 NATIONAL MUSEUM OF NATURAL HISTORY BAIRD AUDITORIUM**09:00 PLENARY 6 – INSTITUTIONAL INTERPLAY: INTERACTIONS BETWEEN THE ANTARCTIC TREATY SYSTEM AND OTHER INTERNATIONAL REGIMES: Chaired by Professor Takashi Yamanouchi** (Head of International Affairs Section and Polar Data Center, National Institute of Polar Research; Member, ICSU/WMO Joint Committee for the International Polar Year, Japan)

- “Ocean Dumping and the Antarctic: Tangled Legal Currents, Sea of Challenges” – **Professor David VanderZwaag** (Chair of Ocean Law and Governance, Dalhousie University, Canada)
- “Natural Resources: International Convention for the Regulation of Whaling” – **Dr. Nicola Grandy** (Secretary, International Whaling Commission, United Kingdom)
- “Global Change: Montreal Protocol on Substances that Deplete the Ozone Layer.” **Mr. Stephen O. Andersen** (Co-Chair, Technology & Economic Assessment Panel, Vienna Convention for the Protection of the Ozone Layer and the Montreal Protocol, United States)

10:15 COFFEE**10:45 PANEL 6 – Interactive Panel Discussion with Questions from the Audience****CHAIR – Professor Takashi Yamanouchi** (Japan)**PANELLISTS – Ambassador Jorge Berguño** (Chile), **Dr. Nicola Grandy** (United Kingdom), **Mr. Stephen O. Andersen** (United States), **Professor David VanderZwaag** (Canada), **Professor Hanling Wang** (International Law and Marine Affairs, Chinese Academy of Social Sciences, China)**11:40 YOUNG SCHOLAR ESSAY: Ms. Indi Hodgson-Johnston** (Institute of Antarctic and Southern Ocean Studies, University of Tasmania, Australia) – 2nd Place Winner of the APECS Essay Contest**11:45 LUNCH****12:45 PLENARY 7 – GOVERNING INTERNATIONAL SPACES: LESSONS FROM ANTARCTICA: Chaired by Professor Oran Young** (Professor, Bren School of Environmental Science & Management, University of California Santa Barbara and Chair of the International Human Dimensions Programme on Global Environmental Change, United States)

- “Outer Space as International Space” – **Professor Armel Kerrest** (Head, Department of Public Law, University of Western Brittany, France)
- “Earth System Information and Common Concerns of Humanity” – **Dr. Robert Chen** (Director, Center for International Earth System Information Network at Columbia University; Secretary General, Committee on Data for Science and Technology, United States)
- “Common Interests in the Oceans” – **Judge Rüdiger Wolfrum** (Director, Max Planck Institute for Comparative Public Law and International Law and Former President, International Tribunal for the Law of the Sea, Germany)

14:00 PANEL 7 – Moderated Panel Discussion**CHAIR – Professor Oran Young** (United States),**PANELLISTS – Dr. Robert Chen** (United States); **Judge Vladimir Golitsyn** (Judge, International Tribunal for the Law of the Sea, Russian Federation); **Professor Armel Kerrest** (France), **Judge Rüdiger Wolfrum** (Germany)**15:00 COFFEE****15:30 SUMMIT PLENARY SYNTHESIS – ANTARCTICA AND GLOBAL STEWARDSHIP****CHAIR – Dr. Robert Corell** (Director Global Change Program, H. John Heinz Center for Science, Economics and the Environment and Chair of the Arctic Climate Impact Assessment, Arctic Council and International Arctic Science Committee, United States)**PANELLISTS – Mr. James Barnes** (Executive Director, Antarctic Southern Ocean Coalition, France), **Professor Christopher Joyner** (Professor of Government and Foreign Service, Georgetown University, United States); **Ambassador Helena Odmark** (Ambassador for Arctic and Antarctic, Senior Arctic Official of Sweden, Ministry for Foreign Affairs, Sweden), **Professor Jörn Thiede** (Former Director, Alfred-Wegener Institutes for Polar and Marine Research, Germany; Former President, Scientific Committee on Antarctic Research, Germany)

DAY 4 – THURSDAY, 3 DECEMBER 2009**APPLYING LESSONS LEARNED FROM THE ANTARCTIC TREATY SUMMIT**

Two workshops and a luncheon dialogue will begin to integrate lessons learned from the *Antarctic Treaty Summit* plenaries with regard to topics and regions of international governance that have immediate and legacy value for all humanity.

08:00-17:00 PARALLEL WORKSHOPS (GRAND HYATT WASHINGTON)**09:00-17:00 WORKSHOP 1: ARCTIC GOVERNANCE: LESSONS FROM THE ANTARCTIC****Convened by the Aspen Institute (Arctic Dialogue and Commission) and Arctic Governance Project in Cooperation with the Royal Society****09:00-17:00 WORKSHOP 2: HISTORY OF INTERNATIONAL SPACES****Convened by the Scientific Committee on Antarctic Research – History Action Group and the American Geophysical Union – History Section****12:30-14:00 LUNCHEON DIALOGUE: SCIENCE-POLICY COMMUNICATION PATHS****Convened by the Association of Polar Early Career Scientists**