

# PAUL ARTHUR BERKMAN

Head, Arctic Ocean Geopolitics Programme

(<http://www.spri.cam.ac.uk/research/aog/>)

Scott Polar Research Institute, University of Cambridge, Cambridge, CB2 1ER, UNITED KINGDOM  
[pb426@cam.ac.uk](mailto:pb426@cam.ac.uk) / (O) +44-(0)1223-336-551 / (F) +44-(0)1223-336-549 / (C) +44(0)7792-983-220

Fulbright Distinguished Scholar and Research Professor

Donald Bren School of Environmental Science & Management, University of California

Santa Barbara, CA 93106-5131, UNITED STATES

[berkman@bren.ucsb.edu](mailto:berkman@bren.ucsb.edu) / (O) +1-805-893-8437 / (F) +1-805-893-7064

**Interdisciplinary oceanographer establishing connections between science, policy and information technology to promote cooperation and prevent discord for good governance of the Arctic Ocean, Antarctica and international spaces more generally**

## EDUCATIONAL BACKGROUND

Ph.D. 1988 (Biological Oceanography) - Graduate School of Oceanography, University of Rhode Island.  
 M.S. 1986 (Biological Oceanography) - Graduate School of Oceanography, University of Rhode Island.  
 B.A. 1980 (Aquatic Biology) - Department of Biology, University of California, Santa Barbara.

## AWARDS

2007-2008 *Fulbright Distinguished Scholarship*, US-UK Fulbright Commission, University of Cambridge, Scott Polar Research Institute, United Kingdom.  
 2002 *National Aeronautics and Space Administration Faculty Fellowship*: California Institute of Technology, Jet Propulsion Laboratory.  
 2001-2002 *Erskine Faculty Fellowship*: Gateway Antarctica, University of Canterbury, New Zealand.  
 2001-2003 *Mershon Faculty Fellowship*: Mershon Center for International Security and Public Policy, Ohio State University.  
 1996 *Faculty Innovator Award*: Technology Enhanced Learning and Research Program, Ohio State University.  
 1996 *JSPS Visiting Scientist Fellowship*: Japan Society for the Promotion of Science; Japanese Ministry of Science, Education and Culture; (National Institute of Polar Research).  
 1992-1994 *JSPS Postdoctoral Fellowship*: Japan Society for the Promotion of Science; Japanese Ministry of Science, Education and Culture; (National Institute of Polar Research).  
 1991 *Outstanding Faculty Award*: Sphinx and Mortar Board Honor Societies, Ohio State University.  
 1989-1990 *Byrd Fellowship*: Byrd Polar Research Center, Ohio State University.  
 1983-1988 *NSF Graduate Fellowship*: National Science Foundation.  
 1980-1981 *Antarctic Service Medal*: United States Congress (winter-over in Antarctica).  
 1972 *Eagle Scout*: Boy Scouts of America

## EXPERIENCE

2008-Present *Head*, Arctic Ocean Geopolitics Programme, Scott Polar Research Institute and Judge Business School, University of Cambridge.  
 2008-2009 *Member*, Working Group on Environmental Policy, Arctic TRANSFORM Project, European Commission.  
 2007-Present *Chair of the International Board and Convener*, *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*, Smithsonian Institution, Washington, D.C. ([www.atsummit50.aq](http://www.atsummit50.aq))  
 2005-Present *Research Professor*: Bren School of Environmental Science and Policy, University of California, Santa Barbara.  
 2005-2008 *Chair*: Working Group on Knowledge Management and Discovery. Electronic Geophysical Year.

- 2004-2007 *Chair: Sustainability Standing Committee for the National Science Foundation, National Science Digital Library (NSDL) program.*
- 2004 *Host Lecturer: Travel Dynamics cruise to Antarctica on the 'Orion'*
- 2003-2005 *Associate Research Professor: Bren School of Environmental Science and Policy, University of California, Santa Barbara*
- 2003-2007 *Chief Scientist: The New Media Studio*
- 2002-2006 *United States Team Member: International Preservation of Authentic Electronic Records (InterPARES 2) Project.*
- 1999-2002 *Chair: Project CLEAR (Community Leadership to Effect Air Emission Reductions): City of Columbus, Ohio.*
- 1999-Present *Co-Founder: EvREsearch LTD.*
- 1998-2003 *Research Scientist: Byrd Polar Research Center, The Ohio State University.*
- 1998-2004 *Member: Diving Control Board, The Ohio State University.*
- 1997-2000 *Member, Steering Committee: Antarctic Ice Margin Evolution (ANTIME) Program, Scientific Committee on Antarctic Research (SCAR) / International Geosphere-Biosphere Program (PAGES).*
- 1996 *Senior Science Fellow: Japan Society for the Promotion of Science, Tokyo, Japan.*
- 1994-2004 *Member, Steering Committee: West Antarctic Ice Sheet (WAIS) Program, National Science Foundation and National Aeronautics and Space Administration.*
- 1994-1998 *Senior Research Associate: Byrd Polar Research Center, The Ohio State University.*
- 1994-1996 *Member, Science Advisory Group: Consortium for International Earth Science Information Network (CIESIN).*
- 1993-1994 *Postdoctoral Fellow: Japan Society for the Promotion of Science, Tokyo, Japan.*
- 1992-1997 *Member, Board of Directors: Friends of Stone Laboratory, Ohio State University Alumni Fund.*
- 1991-2003 *Adjunct Professorships: Department of Ecology, Evolution and Organismal Biology; Environmental Science Graduate Program; School of Natural Resources; The Ohio State University.*
- 1990-1994 *Research Associate: Byrd Polar Research Center, The Ohio State University.*
- 1989-1990 *Byrd Fellow: Byrd Polar Research Center, The Ohio State University.*
- 1987-1988 *NSF Graduate Fellow: National Science Foundation.*
- 1987 *Lecturer: Graduate School of Oceanography, University of Rhode Island.*
- 1986-1987 *Visiting Scientist: Scripps Institution of Oceanography (McMurdo Sound, Antarctica).*
- 1984-1986 *NSF Graduate Fellow: National Science Foundation.*
- 1983-1984 *Graduate Research Assistant: Graduate School of Oceanography, University of Rhode Island.*
- 1983 *Consultant: Antarctica Project, Washington, D.C.*
- 1982 *Visiting Professor: Council on Educational Development, University of California Los Angeles.*
- 1982 *Legal Assistant: Knossaman, Krueger and Marsh.*
- 1981-1982 *Staff Research Associate: Scripps Institution of Oceanography (winter-over SCUBA research in McMurdo Sound, Antarctica).*
- 1980 *Lecturer: College of Creative Studies, University of California, Santa Barbara.*
- 1978-1980 *Research Assistant: Marine Science Institute, University of California, Santa Barbara.*

## PEER-REVIEWED PUBLICATIONS

- 2010 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 (in preparation).
- 2010 Berkman, P.A. *Environmental Security in the Arctic Ocean*. Royal United Services Institute, ***Whitehall Paper*** (in press).
- 2010 Berkman, P.A. Common interests in the international space of Antarctica. ***Polar Record*** 46(1):7-9.
- 2009 Berkman, P.A.. International Spaces Promote Peace. ***Nature*** 462:412-413.
- 2009 Berkman, P.A. and Young, O.R. Governance and Environmental Change in the Arctic Ocean. ***Science*** 324: 339-340.
- 2009 Berkman, P.A. Arctic Ocean State-Changes: Self Interests or Common Interests. In: Alfredsson, G. Koivurova, T. and Leary, D.K. (eds). **Yearbook of Polar Law. Volume 1**. Pp. 527-541.
- 2009 Berkman, P.A. 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.
- 2008 Berkman, P.A., Walton, D.W.H. and Weiler, S. Antarctic Treaty Summit to Focus on Global Science Policy Lessons. ***Transactions of the American Geophysical Union (EOS)*** 89(42):406.

- 2008 Berkman, P.A. Once in a hundred generations. In: Halbert, M. and Skinner, K. (eds.). **Strategies for Sustaining Digital Libraries**. Emory University, Atlanta. Pp. 11-21.
- 2006 Berkman, P.A. The Zen of Venn Revisited: Inquiry and Interdisciplinary Education. *Journal of Geoscience Education* 54(3):383-385.
- 2006 Berkman, P.A. , Morgan, G.J., Moore, R., Hamidzadeh, B. Automated Granularity to Integrate Digital Records: The "Antarctic Treaty Searchable Database" Case Study. *CODATA (Committee on Data for Science and Technology) Data Science Journal*. 5:84-99 ([www.jstage.jst.go.jp/article/dsj/5/0/84/pdf](http://www.jstage.jst.go.jp/article/dsj/5/0/84/pdf))
- 2006 Berkman, P.A. , Morgan, G.J., Moore, R., Hamidzadeh, B. Automated Granularity to Integrate Digital Records: The "Antarctic Treaty Searchable Database" Case Study. *CODATA (Committee on Data for Science and Technology) Data Science Journal*. 5:84-99. **Spanish Translation – Archivo Municipal, Cartagena, Spain.** ([http://archivo.cartagena.es/recursos/texto0\\_antarctica\\_dos.pdf](http://archivo.cartagena.es/recursos/texto0_antarctica_dos.pdf))
- 2004 Berkman, P.A., Cattaneo-Vietti R., Chiantore, M. and Howard-Williams, C. Polar emergence and the influence of increased sea-ice extent on the Cenozoic biogeography of pectinid molluscs in Antarctic coastal areas. *Deep-Sea Research*, 11:1839-1855.
- 2003 Berkman, P.A. International Polar Year 2007-08. *Science* 301: 1669.
- 2003 Stabubwasser, M., Henderson, G.M., Berkman, P.A. and Hall, B.L. Ba, Ra, Th, and U in marine mollusc shells and the potential of <sup>226</sup>Ra/Ba dating of Holocene marine carbonate shells. *Geochemica Cosmochemica Acta*. 68(1):89-100.
- 2003 Emslie, S.D., Berkman, P.A., Ainley, D.G., Coats, L. and Polito, M. Late-Holocene initiation of ice-free ecosystems in the Southern Ross Sea, Antarctica. *Marine Ecology Progress Series* 262:19-25.
- 2002 Berkman, P.A. **SCIENCE INTO POLICY: GLOBAL LESSONS FROM ANTARCTICA**. Academic Press, San Diego. 252 p.
- 2001 Chiantore, M., Cattaneo-Vietti, R., Berkman, P.A., Nigro, M., Vacchi, M., Schiaparelli, S. and Albertellie, G. Antarctic scallop (*Adamussium colbecki*) spatial population variability along the Victoria Land Coast, Antarctica. *Polar Biology* 24:139-143.
- 2000 Haltuch, M.A., Berkman, P.A. and Garton, D.W. Geographic information system (GIS) analysis of an ecosystem invasion: exotic mussels in Lake Erie. *Limnology and Oceanography* 45:1778-1787.
- 2000 Berkman, P.A., Garton, D.W., Haltuch, M.A., Kennedy, G.W. and Febo, L.R. Habitat shift in invading species: zebra and quagga mussel population characteristics on shallow soft substrates. *Biological Invasions* 2:1-6.
- 1999 Goodwin, I.D., Berkman, P.A., Hirakawa, K. and Hjort, C. Holocene Antarctic's coastal environment, ice sheet and sea levels explored. *Transactions of the American Geophysical Union (EOS)* 80(9). pp. 103, 107.
- 1998 Berkman, P.A., Garton, D.W., Kennedy, G.W., Gannon, J.A., Mackey, S.E., Fuller, J.A., Liebenenthal, D., Haltuch, M.A. and Tichich, E. Vast invading zebra mussel beds on lake sediments. *Nature* 393:27-28.
- 1998 Berkman, P.A., Andrews, J.T., Björck, S., Colhoun, E.A., Emslie, S.D. Goodwin, I., Hall, B.L., Hart, C.P., Hirakawa, K., Igarashi, A., Ingólfsson, O., López-Martínez, J., Lyons, W.B., Mabin, M.C.G., Quilty, P.G., Taviani, M. and Yoshida, Y. Circum-Antarctic coastal environmental variability during the Late Quaternary recorded in emerged marine deposits. *Antarctic Science* 10(3):345-362.
- 1998 Berkman, P.A. and Ku, T.-H. <sup>226</sup>Ra/Ba ratios for dating Holocene biogenic carbonates in the Southern Ocean: preliminary evidence from coastal mollusc shells. *Chemical Geology*. 144:331-334.
- 1998 Berkman, P.A. Indicator species for interpreting environmental variability in the Antarctic coastal zone. *Korean Journal of Polar Research*. 8(1):69-76.
- 1998 Ingólfsson, O., Hjort, C., Berkman, P.A., Björck, S., Colhoun, E., Goodwin, I.D., Hall, B.L., Hirakawa, K., Melles, M., Möller, P. and Prentice, M.L. Antarctic glacial history since the Last Glacial Maximum: an overview of the record on land. *Antarctic Science* 10(3):326-344.
- 1997 Berkman, P.A. Ecological variability in Antarctic coastal environments: past and present. In: Battaglia, B., Valencia, J. and Walton, D.W.H. (eds.) *Antarctic Environmental Change and Conservation*. Cambridge University Press, London. pp. 349-357.
- 1997 Berkman, P.A. Forum: Reply on The Zen of Venn. *Transactions of the American Geophysical Union (EOS)* 78(34):372.
- 1997 Berkman, P.A. The Zen of Venn. *Transactions of the American Geophysical Union (EOS)* 78(20):209.
- 1997 Berkman, P.A. Biological baselines and responses for assessing environmental impacts in Antarctic coastal areas. In: De Poorter, M. and Dalziel, J.C. (eds.). *Cumulative Environmental Impacts in Antarctica: Minimisation and Management*. International Union for the Conservation of Nature. Washington, D.C. pp. 117-123.
- 1996 Berkman, P.A. and Forman, S.L. Pre-bomb radiocarbon and the reservoir correction for calcareous marine species in the Southern Ocean. *Geophysical Research Letters* 23:633-636.
- 1996 Berkman, P.A. and Prentice, M.L. Pliocene extinction of Antarctic pectinid mollusks. *Science* 271:1606-1607.

- 1994 Berkman, P.A. Epizoic zonation on growing scallop shells in McMurdo Sound, Antarctica. *Journal of Experimental Marine Biology and Ecology* 179:49-67.
- 1994 Berkman, P.A. and Yoshida, Y. Assessing Antarctic Ice Sheet-Sea Level Dynamics During the Holocene: The 'Meltwater Test.' *Korean Journal of Polar Research* 4:121-125.
- 1994 Berkman, P.A. and Yoshida, Y. (eds.). *Holocene Environmental Changes in Antarctic Coastal Areas. Memoirs of the National Institute of Polar Research (Japan), Special Issue. No. 50. National Institute of Polar Research*, Tokyo. 107 p.
- 1994 Berkman, P.A. Geochemical signatures of meltwater in Antarctic coastal marine molluscs during the Holocene. In: Berkman, P.A. and Yoshida, Y. (eds.). *Holocene Environmental Changes in Antarctic Coastal Areas." Memoirs of the National Institute of Polar Research (Japan), Special Issue. 50:11-33.*
- 1992 Berkman, P.A., Foreman, D.W., Mitchell, J.C. and Liptak, R.J. Scallop shell mineralogy and crystalline characteristics: Proxy records for interpreting Antarctic nearshore marine hydrochemical variability. In: Elliot, D.H. (ed.) *Contributions to Antarctic Research III. Antarctic Research Series, Volume 57.* American Geophysical Union, Washington, D.C. pp. 27-38.
- 1992 Berkman, P.A. and Nigro, M. Trace metal concentrations in scallops around Antarctica: Extending the Mussel Watch Programme to the Southern Ocean. *Marine Pollution Bulletin*. 24(6):322-323.
- 1992 Berkman, P.A. and Woyach, R.B. International transitions in the Antarctic Treaty System. *Polar Record* 28(166):244-245.
- 1992 Berkman, P.A. The Antarctic marine ecosystem and humankind. *Reviews in Aquatic Sciences* 6(3,4):295-333.
- 1992 Berkman, P.A. Circumpolar distribution of Holocene marine fossils in Antarctic beaches. *Quaternary Research* 37(2):256-260.
- 1991 Berkman, P.A., Waller, T.R. and Alexander, S.P. Unprotected larval development in the Antarctic scallop, *Adamussium colbecki* (Mollusca: Bivalvia: Pectinidae). *Antarctic Science* 3(2):151-157.
- 1991 Berkman, P.A. Spatial distribution of an unexploited nearshore Antarctic scallop population. In: Shumway, S. and Sandifer, P.A. (eds.). *An International Compendium of Scallop Biology and Culture: A Tribute to James Mason. World Aquaculture Society*, Baton Rouge. pp. 176-180.
- 1990 Berkman, P.A. The population biology of the Antarctic scallop, *Adamussium colbecki* (Smith, 1902) at New Harbor, Ross Sea. In: Kerry, K.R. and Hempel, G. (eds.) *Antarctic Ecosystems: Ecological Change and Conservation. Springer-Verlag*, Heidelberg. pp. 281-288.
- 1998 Berkman, P.A. Conservation of the Antarctic benthos. *Maritimes* 32(4):11-12.
- 1986 Berkman, P.A., Marks, D.S. and Shreve, G.P. Winter sediment resuspension in McMurdo Sound, Antarctica, and its ecological implications. *Polar Biology* 6(1):1-3.
- 1984 Berkman, P.A. SCUBA Diving in Antarctica. In: Rey, L. (ed.) *Arctic Underwater Operations. Graham and Trotman*, London. p. 123-133.
- 1980 Berkman, P.A. and Connell, J.H. The relation between predation and the cryptic coloration of the intertidal isopod, *Idotea montereyensis*. *Discovery* 3:12-25.

## CONCURRENT RESOLUTION IN THE UNITED STATES CONGRESS

Prof. Paul Berkman wrote the Concurrent Resolution (***Recognizing the 50<sup>th</sup> Anniversary of the Signing of the Antarctic Treaty***) that was sponsored by Congressman Patrick Tiberi of Ohio eventually with 33 co-sponsors in the United States House of Representatives. This Concurrent Resolution was adopted with unanimous consent in both chambers of the United States Congress during the 1<sup>st</sup> Session of the 111<sup>th</sup> Congress: United States House of Representatives on 30 September 2009 (*House Concurrent Resolution 51*: <http://thomas.loc.gov/cgi-bin/bdquery/z?d111:HC00051>) and United States Senate with sponsorship of Senator Barbara Boxer of California on 1 December 2009 (*Senate Resolution 365*: <http://thomas.loc.gov/cgi-bin/bdquery/z?d111:SE00365>).

## MISCELLANEOUS PUBLICATIONS

- 2010 Berkman, P.A. Integrated Arctic Ocean Governance for the Lasting Benefit of All Humanity. Wolfrum, R. (ed). *Arctic Conference Proceedings, Berlin, March 2009*. Max Planck Institute. (in press).
- 2009 Berkman, P.A., Yalowitz, K.S. and Young, O.R. United States Leadership in the Arctic Ocean. ***Syndicated from the McClatchy-Tribune News Service***, 4 December 2009. (e.g., <http://dailyme.com/story/2009120200003549/united-states-leadership-arctic-ocean.html>).
- 2009 Berkman, P.A. "North Pole as a Pole of Peace." *The Circle* 1:14-7.

- 2009 Berkman, P.A. Arctic Ocean Geopolitics Programme, Scott Polar Research Institute. *Polar Record* 45(4): 383.
- 2007 Berkman, P.A. Earth science in the Antarctic Treaty System. **U.S. Geological Survey and The National Academies: USGS OF-2007-1047**, Extended Abstract 167 (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea167.pdf>)
- 2005 Berkman, P.A., Morgan, G.J., Moore, R., Marciano, R., Suderman, J., Hamidzadeh, B., and Hofman, H. Antarctic Treaty Searchable Database Case Study. Final Report for the InterPARES 2 Program. *International Research on Permanent Authentic Records in Electronic Systems University of British Columbia*, Vancouver. ([www.interpares.org](http://www.interpares.org))
- 2004 Berkman, P.A. Sustaining the National Science Digital Library. *Project Kaleidoscope Newsletter*. 20 August 2004. ([www.pkal.org](http://www.pkal.org))
- 2004 Berkman, P.A. Escaping the paper paradigm. *DM Direct Newsletter*. 21 May 2004. ([www.dmreview.com/editorial/newsletter\\_article.cfm?nl=dmdirect&articleid=1003788&issue=20024](http://www.dmreview.com/editorial/newsletter_article.cfm?nl=dmdirect&articleid=1003788&issue=20024)).
- 2003 Berkman, P.A. and Morgan, G.J. Automated granularity of authentic digital records in a persistent archive. Report for the National Archives and Records Administration. EvREsearch Technical Report 2003-1. **San Diego Supercomputer Center**, San Diego. ([www.sdsc.edu/NARA/Publications/EV\\_Report\\_2003G2\\_31aug03.doc](http://www.sdsc.edu/NARA/Publications/EV_Report_2003G2_31aug03.doc)).
- 2002 Berkman, P.A. (ed.). *Final Report of Project CLEAR (Community Leadership to Effect Air Emission Reductions)*. **City of Columbus**, Ohio. 100 p.
- 2001 Berkman, P.A. and Everett, L.R. (eds.) *Latitudinal Ecosystem (LAT-ECO) Responses to Climate Across Victoria Land, Antarctica. Report of a National Science Foundation Workshop*. Byrd Polar Research Center Report No. 20, **Ohio State University**, Columbus, 152 p.
- 1999 Berkman, P.A., Garton, D.W., Chiantore, M., Nigro, M. and Regoli, F. Remotely operated vehicle (ROV) surveys and applications during the 1998-99 austral summer in Terra Nova Bay, Antarctica. In: Tamburrini, M. (ed.). *Newsletter of the Italian Biological Research in Antarctica*. Universita degli Studi di Camerino, Naples. pp. 47-54.
- 1999 Garton, D.W., Berkman, P.A., Chiantore, M., Nigro, M. and Regoli, F. Seasonal patterns in metabolic response to stress in scallops (*Adamussium colbecki*) in Terra Nova Bay, Antarctica. In: Tamburrini, M. (ed.). *Newsletter of the Italian Biological Research in Antarctica*, Universita degli Studi di Camerino, Naples. pp. 55-62.
- 1997 Berkman, P.A. 1997. The Victoria Land Coast Expedition. *Polar News* 64:1-4 (in Japanese).
- 1997 Berkman, P.A. (ed.). *Antarctic Science and Policy: Interdisciplinary Research Education (ASPIRE)*. Byrd Polar Research Center Report No. 13, **Ohio State University**, Columbus. 70 p.
- 1996 Berkman, P.A., Goad, C. and Kwon, J.H. Global Positioning System (GPS) static sites along the Victoria Land Coast, Antarctica. *Antarctic Journal of the United States* 31:44-45.
- 1995 Berkman, P.A. Book review: *Southern Ocean Ecology*, by S.Z. El-Sayed (ed.). 1994. *Marine Technology Society Bulletin*. 29(3):104
- 1995 Berkman, P.A. Book review: *Global Climates Since the Last Glacial Maximum*, by H.E. Wright, Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott and P.J. Bartlein (Eds.). 1993. *Review of Paleobotany and Palynology* 91:425-426
- 1993 Browne, D.W. and Berkman, P.A. Epizooic foraminifera, tanaid, and polychaete species associations on Antarctic scallop shells. *Antarctic Journal of the United States*. 27:134-135.
- 1992 Berkman, P.A. Conservation of the Antarctic marine ecosystem and the development of global resource management strategies. *Proceedings of the Conference on the Global Ocean Partnership*. **Marine Technology Society**, Washington, D.C. pp. 30-36.
- 1991 Berkman, P.A. Holocene meltwater variations recorded in Antarctic coastal marine benthic assemblages. In: Weller, G., Wilson, C.L. and Severin, B.A.B. (eds.). *Proceedings of the International Conference on the Role of the Polar Regions in Global Change*. **University of Alaska**, Fairbanks. pp. 440-449.
- 1989 Berkman, P.A. and Hambrook, J.A. Preliminary research on the Galapagos scallop fauna and marine and freshwater algae. *Charles Darwin Research Station Annual Report 1988-1989*. pp. 126-128.
- 1988 Berkman, P.A. Sea scallop tagging experiments using manned-submersibles. In: Babb, I. and DeLuca, M. (eds.). *National Undersea Research Program Research Report 88-3*. **National Oceanic and Atmospheric Administration**, Rockville. pp. 231-243.
- 1988 Berkman, P.A. *Ecology of the circumpolar Antarctic scallop, Adamussium colbecki (Smith, 1902)*. Graduate School of Oceanography, Doctoral Dissertation. **University of Rhode Island**, Narragansett. pp. 215.
- 1986 Berkman, P.A. Ecological relationships between the bay scallop, *Argopecten irradians*, and its epizooic assemblages in Charleston Pond, Rhode Island. Graduate School of Oceanography, Masters Thesis. **University of Rhode Island**. pp. 131.

## SEARCHABLE DATABASES and DIGITAL LIBRARIES

- 2007 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2007. 8<sup>th</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM and <http://aspire.nvi.net>.
- 2006 Berkman, P.A. and Morgan, G.J. Marine Mammal Commission Digital Library of International Environmental and Ecosystem Policy Documents. CD-ROM and <http://nsdl.tierit.com>
- 2006 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2006. 7<sup>th</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2005 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2005. 6<sup>th</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM
- 2004 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2004. 5<sup>th</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2003 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2003. 4<sup>th</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2003 2003 Berkman, P.A. and Morgan, G.J. 2003. *Integration of Marine Environmental and Ecosystem Policies.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2002 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2002. 3<sup>rd</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2001 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-2001. 2<sup>nd</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 2001 Berkman, P.A. and Morgan, G.J. *United Nations Convention on the Law of the Sea Searchable Database.* **EvREsearch LTD**, Columbus. CD-ROM and <http://lawofthesea.tierit.com>
- 2000 Berkman, P.A. and Morgan, G.J. *Antarctic Treaty Searchable Database: 1959-1999. 1<sup>st</sup> Edition.* **EvREsearch LTD**, Columbus. CD-ROM.
- 1999 Haltuch, M.A. and Berkman, P.A. *Lake Erie Geographic Information System: Bathymetry, Substrates and Mussels.* **Ohio Sea Grant College Program**, Columbus. CD-ROM

## TEACHING

- 1996-2003 *Professor: Law of the Sea.* University Center for International Studies (UCIS 501D), The Ohio State University
- 1996 *Professor and Coordinator: Human Dimensions of Global Environmental Change. Interdepartmental Seminar Series:* Department of Geography (GEOG 694), Department of Geological Sciences (GEOL 694), School of Natural Resources (NAT RES 694), School of Public Policy (PUB POL 894), The Ohio State University. .
- 1992-1999 *Professor: Marine Biology and Ecology.* Department of Ecology, Evolution and Organismal Biology (EEOB 505), The Ohio State University.
- 1991-2003 *Professor: Antarctic Marine Ecology and Policy.* Cross-Listed Capstone Course - University Center for International Studies; School of Natural Resources; Department of Zoology; Honors Program (UCIS/NAT RES/ZOO 597.02), The Ohio State University.
- 1990 *Professor, Antarctic Ecology and Paleoecology.* Department of Geology and Mineralogy (GEOL 896), The Ohio State University.
- 1987 *Lecturer, Antarctic Science.* Graduate School of Oceanography (OCG 694I), University of Rhode Island.
- 1982 *Visiting Professor, Antarctic Marine Ecology and Ocean Policy.* Council on Educational Development, University of California, Los Angeles.
- 1980 *Lecturer, An Ecological Approach to Adaptation.* College of Creative Studies, University of California, Santa Barbara.

## GRADUATE STUDENTS

- 2009 Eucker, W. *Collaborative governance of surface ships in the ice-diminishing Arctic Ocean.* Masters of Literature, University of Cambridge. (in progress)
- 2008 Ortman, C. *Radioactive Waste Impacts Mitigated by the Arctic Military Environmental Cooperation Program: Lessons in International Cooperation.* Masters of Philosophy, University of Cambridge.
- 2008 Pulsifer, P. *An Ontological Exploration of Antarctic Environmental Governance: Towards a Model for Geographic Information Mediation.* Doctoral Dissertation. Carleton University, Ottawa..
- 2008 Ekstrom, J. *California Coastal Current Large Marine Ecosystem: Marine Protected Areas.* Doctoral Dissertation. Bren School of Environmental Science & Management. University of California, Santa Barbara.

- 2006 Grant, S. Development of a Marine Protected Area System for Antarctica. *Cambridge University, United Kingdom.*
- 2000 Bauer, M. Venn Diagram Courseware for Interdisciplinary Education. *Masters Thesis. School of Natural Resources, The Ohio State University, Columbus. pp. 115.*
- 1998 Yu, N. *Zebra mussel (Dreissena polymorpha) colonization in a thermally-stratified reservoir and its ecological impacts.* Doctoral Dissertation. Department of Zoology, The Ohio State University. pp. 149.
- 1998 Haltuch, M.A. *Modeling expansion of exotic mussels on Lake Erie sediments using Geographic Information Systems (GIS).* Masters Thesis. Environmental Science Graduate Program, The Ohio State University, Columbus, Ohio. pp. 104.
- 1997 Dawber, M. *Benthic communities and the potential fossil record at polar glacier grounding lines.* Masters Thesis. Department of Geology, Northern Illinois University, DeKalb, Illinois. pp. 158. (committee member).
- 1996 Van Bloem, S.J. *Exploring the biomass-productivity paradox: the case of the long-lived Antarctic scallop.* Masters Thesis. Environmental Science Graduate Program, The Ohio State University, Columbus, Ohio. pp. 76.
- 1994 Hodory, L.L. *Responsible environmental behavior in natural resources students at Sterling College, Vermont, and The Ohio State University.* Masters Thesis. School of Natural Resources, The Ohio State University. pp. 143.
- 1994 Janke, E.H. *The effect of stream and lake habitats on the shell morphology of Lampsilis radiata luteola (Lamarck, 1819) with a review of the use of shell growth lines as an aging technique.* Masters Thesis. Department of Zoology, The Ohio State University. Columbus, Ohio. pp. 131.

## FUNDING

- Berkman, P.A. *Environmental Security in the Arctic Ocean. Advanced Research Workshop.* North Atlantic Treaty Organization (NATO) / Science for Peace and Security Programme. (with complementary support from the: Aspen Institute; Dartmouth University / John Sloan Dickey Center for International Understanding; NATO Parliamentary Assembly; Shell Oil; World Wildlife Fund / International Arctic Programme).
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Miscellaneous Sponsorships and Endorsements: American Association for the Advancement of Science; American Geophysical Union; Association for Polar Early Career Scientists; Columbia University – Center for International Earth Science Information Network; Foundation for the Good Governance of International Spaces; Fulbright Academy of Science and Technology; Korean Polar Research Institute; Korea Supporters Association for Polar Research; Pew Charitable Trusts; National Geographic Society; The Royal Society; Scientific Committee on Antarctic Research; Stanford University – Department of Earth Sciences; The Explorers Club; United Nations Environmental Programme; United States Geological Survey; United Nations University – Institute of Advanced Studies; United States House of Representatives; United States Senate; Universiti Sains Malaysia – Centre for Global Sustainability Studies). [See: [www.atsummit50.aq/about\\_summit/sponsorship.php](http://www.atsummit50.aq/about_summit/sponsorship.php)]
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Lindblad Expeditions). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (KBR, Inc.). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (World Wildlife Fund Australia – Antarctica and Southern Ocean Initiative). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Japan Polar Research Association). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Greenpeace). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Arctic Governance Project). 11/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Eisenhower Institute of Gettysburg College). 10/09-12/09
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (TransPolar – A Raytheon / AECOM Company). 11/09-1/10
- Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance.* (Prince Albert II of Monaco Foundation, United States). 11/09-1/10
- Lang, M. (chaired by Berkman, P.A.). *Antarctic Treaty Summit: Science-Policy Interactions in International Governance* (National Science Foundation / Office of Polar Programs). 9/09-12/09

Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (Marine Mammal Commission). 9/09-9/10

Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (Prince Albert II of Monaco Foundation, Monaco). 5/09-12/09

Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (The Tinker Foundation). 6/08-3/10

Lang, M.A. (chaired by Berkman, P.A.). *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (Smithsonian Institution). 10/07-12/09

Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (Marine Mammal Commission). 10/07-9/08

Berkman, P.A. and Young, O.R. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (The Tinker Foundation). 7/07-6/08

Berkman, P.A. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. Fulbright Distinguished Scholar, Cambridge University. (US-UK Fulbright Commission). 7/07-6/08

Berkman, P.A. *Marine Mammal Commission Digital Library of International Environmental and Ecosystem Policy Documents*. (National Science Foundation / National Science, Technology, Engineering and Mathematics Digital Library Program, NSF/DUE 0329044). 3/03-2/07.

Moore, R.W., JaJa, J., Wilensky, R. and Berkman, P.A. *Prototype Persistent Archive of Current NARA Digital Holdings and Other Records Collections*. (National Archives and Records Administration / National Partnership for Advanced Computing Infrastructure). 10/02-9/03.

Berkman, P.A. Travel Grant to Attend the XXVII Scientific Committee on Antarctic Research (SCAR) Meeting in Shanghai, China.. (National Aeronautics and Space Administration / Jet Propulsion Laboratory). 7/02.

Berkman, P.A. *Implementation of the Antarctic Treaty Secretariat*. (Mershon Center for International Security and Public Policy). 6/01-6/03.

Haltuch, M.A. and Berkman, P.A. *John A. Knauss Marine Policy Fellowship Awarded to Doctoral Student*. National Oceanic and Atmospheric Administration (assignment at the United States Department of State, Washington, D.C.). 12/00-12/01.

Bromwich, D.H., Berkman, P.A. and Hadad, C. *Central Ohio Air Quality Modeling*. (Ohio Air Quality Development Authority, Grant # 00-37). 10/00-12/02

Berkman, P.A., Lyons, W.B., Priscu, J.C., Smith, W.O., Waddington, E.D., Powell, R. *Victoria Land, Antarctica, Coastal Biome: Marine-Terrestrial Biocomplexity Across a High-Latitudinal Environmental Gradient*. (National Science Foundation/Office of Polar Programs NSF/OPP 0084037). 9/00-8/02.

Berkman, P.A., Reutter, J.M., Ricker, K.T. *Lake Erie Geographic Information System Products*. (National Oceanic and Atmospheric Administration, Sea Grant College Program, NA86RG0053). 5/99-12/00.

Berkman, P.A. *Searchable Database of Antarctic Treaty Consultative Meeting Documents*. (National Science Foundation/Office of Polar Programs. (National Science Foundation/Office of Polar Programs and the United States Department of State/Office of Oceans and Environmental Affairs. NSF/OPP 9727582). 12/98-11/99.

Berkman, P.A. and Garton, D.W. *Biological Baselines and Responses for Assessing Environmental Impacts in Antarctica Coastal Areas: Collaborative Research*. (National Science Foundation/Office of Polar Programs. NSF/OPP 9727582). 9/98-8/01.

Berkman, P.A. *Cenozoic Environmental Variability in Antarctic Coastal Areas*. (National Science Foundation/Division of International Programs. NSF/INT 9603369). 4/97-3/01.

Berkman, P.A. and Fortner, R.A. *Antarctic Science and Policy: Interdisciplinary Research Education (ASPIRE)*. National Science Foundation/Division of Undergraduate Education and the Office of Polar Programs. NSF/DUE-OPP 9652883). 6/97-5/01.

Berkman, P.A. *Scientific and Public Policy Rationale for Air Quality Standards in the United States: Ohio and the Midwestern Region*. (Office of Research, Ohio State University). 3/97-7/97.

Berkman, P.A. *Scientific and Public Policy Rationale for Air Quality Standards in the United States: Ohio and the Midwestern Region*. (Ohio Environmental Protection Agency No. 97G029). 5/97-7/97.

Berkman, P.A., Garton, D.W., Gannon, J.E., Kennedy, G.W. and Mackey, S.D. *Ecosystem State Changes in Lake Erie: Expansion of Invading Mussel Assemblages on Soft Substrates*. (National Oceanic and Atmospheric Administration/National Sea Grant Program). 9/96-8/99.

Berkman, P.A. *Human Dimensions of Global Environmental Change*. (Interdisciplinary Seminar Program, Office of Research, Ohio State University). 4/96-3/97.

Berkman, P.A. *Ecosystem State Changes in Lake Erie: Expansion of Invading Mussel Assemblages on Soft Substrates*. (Ohio Sea Grant College Program). 3/96-2/97.

Berkman, P.A. *JSPS Senior Scientist Fellowship*. (Japan Society for the Promotion of Science). 1/96-3/96.

Berkman, P.A. *Invading Mussel Assemblages on Soft Substrates in Lake Erie: Side Scan Sonar and Sediment Analyses*. (Ohio Sea Grant College Program). 4/95-3/96.

Berkman, P.A. *Research Experiences for Undergraduates (Supplement)*. (National Science Foundation/Office of Polar Programs. NSF/OPP 9221784). 7/96-6/97.

- Berkman, P.A. and Prentice, M.P. "Holocene Environmental Variability Associated with West Antarctic Ice Sheet Retreat Along the Victoria Land Coast: Collaborative Research." (National Science Foundation/Office of Polar Programs. NSF/OPP 9221784). 7/93-6/97.
- Prentice, M.P. and Berkman, P.A. *The chronology of Late Neogene Antarctic Climate Change: Dry Valley Fjord Fossil Evidence: Collaborative research.* (National Science Foundation/Office of Polar Programs. NSF/OPP 9307760). 7/93-6/96.
- Berkman, P.A. *Molluscan Shell Growth Patterns, Mineralogy, and Isotope Profiles: Proxy Records for Interpreting Antarctic Nearshore Environmental Variation During the Holocene.* (National Science Foundation/Division of International Programs. NSF/DPP). 9/92-5/94.
- Berkman, P.A. *Japan Society for the Promotion of Science (JSPS) Fellowship.* (Ministry of Education, Science and Culture. Tokyo, Japan). 9/92-5/94.
- Berkman, P.A. *Ecology of the Antarctic scallop, Adamussium colbecki, at New Harbor, Antarctica.* (National Oceanic and Atmospheric Administration / Antarctic Marine Living Resources Program). 6/86-5/87.
- Langton, R.A., Robinson, W.L. and Berkman, P.A. *Ecology of the Sea Scallop, Placopecten magellanicus (Gmelin), in the Gulf of Maine.* (National Oceanic and Atmospheric Administration/National Undersea Research Program). 9/84-8/87.
- Berkman, P.A. *National Science Foundation Graduate Fellowship.* (National Science Foundation/Division of Fellowships). 9/84-8/86, 9/87-8/88.

## MISCELLANEOUS PROFESSIONAL ACTIVITIES

- 2010 *Invited Lecture, Governance and Security Issues in the Arctic.* The Athenaeum Club, London, United Kingdom.
- 2010 *Invited Lecture, InterAcademy Panel on International Issues.* Biodiversity Conference. ([www.interacademies.net/Object.File/Master/10/139/IAP%20BC%20finalagenda18december.doc](http://www.interacademies.net/Object.File/Master/10/139/IAP%20BC%20finalagenda18december.doc))
- 2009 *Invited Speaker, Tackling Resource Challenges in the 21st Century: Avoiding Worst Case Scenarios.* Chatham House, London, United Kingdom. ([www.chathamhouse.org.uk/events/view/-/id/1337/](http://www.chathamhouse.org.uk/events/view/-/id/1337/))
- 2009 *Special Contributor, Antarctic Treaty at 50, a beacon for joint management of Earth.* National Geographic News Watch. (<http://blogs.nationalgeographic.com/blogs/news/chiefeditor/2009/10/antarctic-treaty-at-50.html>)
- 2009 *Invited Public Lecture, Friends of the Scott Polar Research Institute, University of Cambridge, Cambridge, United Kingdom.* ([www.spri.cam.ac.uk/friends/events/lectures/](http://www.spri.cam.ac.uk/friends/events/lectures/))
- 2009 *Invited Public Lecture, Gresham College, Museum of Science, London, United Kingdom.* ([www.gresham.ac.uk/event.asp?PageId=45&EventId=956](http://www.gresham.ac.uk/event.asp?PageId=45&EventId=956))
- 2009 *Radio Interview, Today, BBC-4 Radio Broadcast on 19 September 2009.* ([http://news.bbc.co.uk/today/hi/today/newsid\\_8264000/8264187.stm](http://news.bbc.co.uk/today/hi/today/newsid_8264000/8264187.stm))
- 2009 *Invited Panelist, Common Challenges To Transatlantic Energy Security: From Ukraine To The Arctic And Beyond.* Finnish Institute of International Affairs, Finnish Ministry for Foreign Affairs and National Intelligence Council, Helsinki, Finland. ([www.upi-fii.fi/en/event/233/](http://www.upi-fii.fi/en/event/233/))
- 2009 *Invited Expert, Aspen Dialogue and Commission on Arctic Climate Change, Aspen Institute, Winnipeg, Canada.*
- 2009 *Invited Speaker, Muslim Heritage Awareness Group, Foundation for Science Technology and Civilisation, The Royal Society, London, United Kingdom*
- 2009 *Invited Testimony, OSPAR Commission Annual Meeting, Commission for the Convention for the Protection of the Marine Environment of the North-East Atlantic, Brussels, Belgium.* ([www.ospar.org/documents%5Cdbase%5Cpublications%5Cp00458 OSPAR%20Annual%20Report.pdf](http://www.ospar.org/documents%5Cdbase%5Cpublications%5Cp00458 OSPAR%20Annual%20Report.pdf))
- 2009 *Opening Keynote, International Ocean Stewardship Forum, National Oceanography Centre, Southampton, United Kingdom* ([www.oceanstewardship.com/programme/](http://www.oceanstewardship.com/programme/))
- 2009 *Invited Speaker, New Frontiers in Science Diplomacy, The Royal Society and American Association for the Advancement of Science, London, United Kingdom.* (<http://royalsociety.org/2009-New-frontiers-in-science-diplomacy/> / [www.aaas.org/news/releases/2009/0629london.shtml](http://www.aaas.org/news/releases/2009/0629london.shtml))
- 2009 *Invited Expert, Aspen Dialogue and Commission on Arctic Climate Change, Aspen Institute, Monaco*
- 2009 *Invited Panelist, Policy Pathways Toward Improved Arctic Governance, The German Marshall Fund, Washington, D.C., United States* ([www.gmfus.org/event/detail.cfm?id=567&parent\\_type=E](http://www.gmfus.org/event/detail.cfm?id=567&parent_type=E))
- 2009 *Invited Speaker, Distinguished Speaker Series, John Muir Institute of the Environment, University of California Davis, Davis, California, United States.* (<http://dev.johnmuir.ucdavis.edu/events/solutions0809.html>)
- 2009 *Radio Interview, Leading Edge – BBC Radio-4 Interview Broadcast on 25 June 2009* ([www.bbc.co.uk/iplayer/episode/b00lbt42/Leading\\_Edge\\_02\\_07\\_2009](http://www.bbc.co.uk/iplayer/episode/b00lbt42/Leading_Edge_02_07_2009))

- 2009 *Invited Speaker, New Chances and New responsibilities in the Arctic Region.* International Conference of the German Federal Foreign Office in cooperation with the Ministries of Foreign Affairs of Denmark and Norway and the Max Planck Institute for Comparative Public Law and International Law. Berlin, Germany ([www.arctic-governance.org/programme.htm](http://www.arctic-governance.org/programme.htm))
- 2009 *Invited Expert,* Aspen Dialogue and Commission on Arctic Climate Change, Aspen Institute, Brussels, Belgium. ([www.aspeninstitute.org/policy-work/energy-environment/our-policy-work/dialogue-commission-arctic-climate-change](http://www.aspeninstitute.org/policy-work/energy-environment/our-policy-work/dialogue-commission-arctic-climate-change))
- 2009 *Radio Interview, Costing the Earth* – BBC Radio-4 Broadcast On 6 April 2009. ([www.bbc.co.uk/iplayer/episode/b00jhp5g/Costing the Earth Antarctic Treaty](http://www.bbc.co.uk/iplayer/episode/b00jhp5g/Costing_the_Earth_Antarctic_Treaty))
- 2009 *Invited Panelist, Transatlantic Policy Options for the Marine Arctic,* Arctic Transform, Brussels, Belgium. (<http://arctic-transform.org/download/agenda.pdf>)
- 2009 *Invited Lecture, Friday Lunchtime Lecture,* Lauterpacht Centre for International Law, University of Cambridge, United Kingdom ([www.lcil.cam.ac.uk/lectures/friday20090227.php](http://www.lcil.cam.ac.uk/lectures/friday20090227.php))
- 2009 *Convener, Environmental Governance Workshop, Arctic Ocean Geopolitics Programme and Arctic Transform,* University of Cambridge, Cambridge United Kingdom. ([www.ourspace.org.uk/attachments/Summary-23-January.pdf](http://www.ourspace.org.uk/attachments/Summary-23-January.pdf))
- 2008 *Invited Speaker, Melting the political ice? Recent developments in the Arctic,* British Institute of International and Comparative Law, London, United Kingdom. ([www.biicl.org/files/3828\\_arctic\\_seminar\\_programme.pdf](http://www.biicl.org/files/3828_arctic_seminar_programme.pdf))
- 2008 *Invited Expert, Working Group meeting,* Arctic Transform, Berlin, Germany. ([http://arctic-transform.org/download/at\\_expert\\_workshop\\_programme.pdf](http://arctic-transform.org/download/at_expert_workshop_programme.pdf))
- 2008 *Radio Interview, Night Waves,* BBC-3 Radio Broadcast on 24 November 2008. (<http://www.bbc.co.uk/programmes/b00fmpz>)
- 2008 *Invited Panellist, International Symposium: Looking beyond the International Polar Year: Emerging and re-emerging issues in international law and policy in the Polar Regions.* United Nations University – Institute of Advanced Studies and University of Akureyri, Iceland. ([www.ias.unu.edu/resource\\_centre/Programme\\_26%20August08\\_revised.pdf](http://www.ias.unu.edu/resource_centre/Programme_26%20August08_revised.pdf))
- 2008 *Invited Keynote,* London School of Economics, Environmental Security Seminar, United Kingdom. (<http://w.lse.ac.uk/collections/alcoa/pdfs/EnvironmentalSecuritySeminarNotes.pdf>)
- 2008 *Convener and Chair, Meeting of the International Board for the Antarctic Treaty Summit.* Scott Polar Research Institute, University of Cambridge, United Kingdom.
- 2008 *Invited Speaker,* Benjamin Franklin House, London, United Kingdom
- 2007 *Convener and Chair, Meeting of the International Board for the Antarctic Treaty Summit.* Scott Polar Research Institute, University of Cambridge, United Kingdom.
- 2007 *Invited Participant, 845<sup>th</sup> Wilton Park Conference: Polar Regions: Challenges and Possibilities.* Wilton Park, British Foreign and Commonwealth Office, United Kingdom.
- 2007 *Invited Panelist, International Polar Year Panel.* National Science Foundation, Washington, DC
- 2007 *Honored Guest, Fulbright Scholars Reception.* King's College London, United Kingdom.
- 2007 *Invited Participant, Electronic Geophysical Year Steering Committee Meeting,* Boulder, CO.
- 2006 *Invited Participant, Workshop to Develop a Task Force on Digital Library Sustainability.* Library of Congress, Washington, D.C..
- 2006 *Co-Convener, The New Frontier in Defining the Data to Knowledge Paradigm.* Committee on Data for Science and Technology. International Council of Science, Beijing, China.
- 2006 *Invited Speaker, Interdisciplinary Research During the International Polar Year.* Valparaiso University, Valparaiso, IN.
- 2006 *Invited Participant, International Polar Year – Data Information Service.* British Antarctic Survey, Cambridge, United Kingdom
- 2006 *Invited Participant, International Research on Permanent Authentic Records in Electronic Systems (InterPARES).* Vancouver.
- 2006 *Invited Participant, Electronic Geophysical Year Steering Committee Meeting,* Boulder, CO.
- 2005 *Invited Doctoral Dissertation External Examiner,* Cambridge University, Cambridge, United Kingdom.
- 2005 *Invited Speaker, Deciphering Data: Communicating Research Activities and Findings to Diverse Audiences.* American Geophysical Union, San Francisco.
- 2005 *Invited Speaker, Integrating Digital Information into Knowledge.* United Nations World Summit on the Information Society, Tunis, Tunisia.
- 2005 *Invited Speaker, Public Lecture Series,* Austin College, Sherman, TX.
- 2005 *Invited Participant, International Research on Permanent Authentic Records in Electronic Systems (InterPARES).* Chicago.
- 2005 *Participant and Panel Convener, National Science Foundation, National Science Digital Library (NSDL) Annual Meeting,* Chicago.
- 2005 *Invited Participant, Policy Committee Meeting, National Science Digital Library (NSDL).* Columbia University, Palisades.

- 2005 *Invited Participant*, Universities Space Research Association, National Aeronautics and Space Administration, Earth System Science Education (ESSE) meeting. Fairbanks.
- 2005 *Invited Participant*, *International Research on Permanent Authentic Records in Electronic Systems (InterPARES)*. Vancouver.
- 2005 *Invited Keynote Speaker*, *Sustaining the National Science Digital Library*. CENDI (Federal Managers of Science Technology Information Group) meeting at the National Science Foundation.
- 2004 *Invited Panelist*, International Council of Scientific Unions, Committee on Data for Science and Technology (CODATA) meeting, Berlin. Germany.
- 2004 *Invited Participant*, *International Research on Permanent Authentic Records in Electronic Systems (InterPARES)*. Vancouver.
- 2004 *Participant and Workshop Convener*, National Science Foundation, National Science Digital Library (NSDL) Annual Meeting, Chicago.
- 2004 *Invited Speaker*, International Council of Scientific Unions, Scientific Committee on Antarctic Research (SCAR) meeting. Bremen, Germany.
- 2004 *Invited Participant*, Universities Space Research Association, National Aeronautics and Space Administration, Earth System Science Education (ESSE) meeting. Monterey.
- 2003 *Invited Keynote Speaker*, *IBMANT/ANDEEP International Symposium and Workshop*. Ushuaia, Argentina.
- 2003 *Invited Participant*, *International Research on Permanent Authentic Records in Electronic Systems (InterPARES)*. Los Angeles.
- 2003 *Invited Participant*. *Digital Library for Earth System Education*. University of Colorado, Boulder.
- 2003 *Invited Speaker*,. *Earth System Science and Policy Institute, California State University*. Monterey Bay.
- 2003 *Invited Participant*, *International Research on Permanent Authentic Records in Electronic Systems (InterPARES)*. Vancouver, Canada.
- 2002 *Invited Participant*, *National Science Digital Library Meeting*, National Science Foundation, Washington, D.C.
- 2002 *Invited Participant*, *85<sup>th</sup> Polar Research Board Meeting*, National Academy of Sciences. Washington , D.C.
- 2002 *Invited Participant*. *XXVII Scientific Committee on Antarctic Research (SCAR) Meeting*. Shanghai, China.
- 2002 *Invited Participant*. *Digital Library for Earth System Education*. Cornell University, Ithaca.
- 2002 *Invited Participant*, *Integrating Education in Biocomplexity Research Workshop*, National Academy of Sciences, Washington D.C.
- 2001-2 *Expedition Co-Leader and Invited Educator*. Graduate Certificate in Antarctic Studies Program in McMurdo Sound, Antarctica. Gateway Antarctica, University of Canterbury, New Zealand.
- 2001 *Workshop Convener*. *Latitudinal Ecosystem and Environmental Variability Across Victoria Land*. Scientific Committee on Antarctic Research (SCAR) Symposium on Antarctic Biology. Amsterdam, The Netherlands
- 2001 *Workshop Co-Convener*. *Using DLESE Resources - An Environmental Summit*. Digital Library for Earth System Education. University of Northern Arizona, Flagstaff.
- 2001 *Invited Speaker*. *Antarctic Neotectonics (ANTEC) Workshop*. Scientific Committee on Antarctic Research, University of Siena, Italy.
- 2001 *Workshop Convener*. *Victoria Land, Antarctica, Coastal Biome: Marine-Terrestrial Biocomplexity Across a High Latitudinal Environmental Gradient*. Byrd Polar Research Center, The Ohio State University.
- 2001 *Keynote Speaker*. *6<sup>th</sup> International Wildlife Law Conference*. American Society of International Law, Washington College of Law, American University. Washington, D.C.
- 2000 *Invited Speaker*. *Digital Library for Earth System Education Symposium*. Geological Society of America, Reno, Nevada.
- 2000 *Invited Speaker*. *26<sup>th</sup> Scientific Committee on Antarctic Research (SCAR) Meeting / Biology Working Group, Geology Working Group and Joint Committee on Antarctic Data Management*. Tokyo, Japan.
- 2000 *Invited Speaker*. *The Victoria Land Coastal Transect Program*. University of Siena, Italy.
- 2000 *Invited Speaker*. *Old Water in the Ocean: The Antarctic Marine Radiocarbon Reservoir*. Nagoya. University Radiocarbon Symposium, Nagoya, Japan.
- 2000 *Invited Speaker*. *Global Lessons from Antarctica* Rishso University, Tachigawa, Japan..
- 1999 *Invited Speaker*. *Late-Quaternary Climatic Transitions in the Circum-Antarctic Coastal Zone*. 19<sup>th</sup> National Institute of Polar Research Earth Science Symposium, Tokyo, Japan.
- 1999 *Invited Speaker*. *Science into Policy: Global Lessons from Antarctica*. Rishso University, Japan.
- 1999 *Invited Speaker*, *82<sup>nd</sup> Polar Research Board Meeting*, National Academy of Sciences, Washington, D.C.
- 1999 *Participant*, *Circumpolar Environmental Transition in the Antarctic Coastal Zone since the Late-Quaternary*. 6th West Antarctic Ice Sheet (WAIS) meeting, National Science Foundation / National Aeronautics and Space Administration. Sterling, Virginia.

- 1998-9 *International Expedition Leader: Terra Nova Bay, Antarctica.* National Science Foundation and Italian Antarctic Research Program.
- 1998 *Convener: Circum-Antarctic Sea Level and Coastal Environmental Variability During the Late Quaternary Cenozoic Environmental Variability in Antarctic Coastal Areas.* International Geosphere-Biosphere Program/ Scientific Committee on Antarctic Research, Lake Kawaguchi-ko, Japan.
- 1998 *Invited Speaker: Applications of Radiocarbon in Antarctic Research* Symposium at Woods Hole Oceanographic Institution. Scientific Committee on Antarctic Research / International Geosphere-Biosphere Program / National Science Foundation.
- 1997 *Invited Speaker: Interdisciplinary Environmental Research in Antarctica.* Rissho University, Japan.
- 1997 *Invited Speaker: Holocene Geochemistry of Antarctic molluscs.* 17<sup>th</sup> National Institute of Polar Research Earth Science Symposium.
- 1999 *Invited Participant: 6<sup>th</sup> United States/Japan Workshop on Global Change Research - East-West Center, Honolulu, Hawaii.*
- 1996 *Convener:- National Workshop on the Scientific and public policy rationale for air quality standards in the United States: Ohio and the midwestern region.* The Ohio State University
- 1997 *Contributor - Intergovernmental Panel on Climate Change, Office of United States Global Change Research Program.*
- 1997 *Invited Speaker: Indicator Species for Interpreting Environmental Variability in the Antarctic Coastal Zone.* Fifth International Symposium on Antarctic Science. Korean Ocean Research Development Institute, Ansan, Korea.
- 1997 *Invited Speaker: Antarctic Science and Policy: Interdisciplinary Research Education (ASPIRE) -* American Geophysical Union, Baltimore.
- 1996 *Invited Speaker: Retreat of the West Antarctic Ice Sheet and Subsequent Persistence of Marine Macrofaunal Assemblages Along the Victoria Land Coast During the Holocene.. International Symposium on Antarctica and Global Change: Interactions and Impacts.* Scientific Committee on Antarctic Research. Tasmania, Australia.
- 1997 *Invited Participant: Earth System Science Education - Universities Space Research Association. BIOSPHERE II, Oracle, Arizona. .*
- 1996 *Invited Participant: Spheres of Influence in Earth Systems Sciences Education - American Geophysical Union, Washington, D.C..*
- 1996 *Invited Speaker: Antarctic Cumulative Impacts - International Union for the Conservation of Nature, Washington, D.C.*
- 1996 *Invited Participant: Monitoring of Environmental Impacts from Science and Operations in Antarctica -* Scientific Committee on Antarctic Research, Texas A & M, College Station, Texas.
- 1996 *Convener - National Seminars on "Human Dimensions of Global Change" (Interactions Between Society and the Environment, Environmental Systems and Climate Change, Environmental Responsibility: Policy and Politics).* The Ohio State University.
- 1996 *Invited Speaker: Isotope geochemistry of mollusc shells in Antarctic coastal areas - (INVITED).* Lamont-Doherty Earth Observatory, Columbia University, Palisades, New York.
- 1994 *Invited Speaker: Interdisciplinary research in Antarctic coastal areas.* National Institute of Polar Research, Tokyo, Japan.
- 1995 *Invited Speaker: Circumpolar records of environmental variability in Antarctic coastal areas after the Last Glacial Maximum.* VII International Symposium on Antarctic Earth Science, Siena, Italy.
- 1995 *Late Neogene Antarctic Glacial Fluctuations: Prospect Mesa Stratigraphy in Wright Valley Revisited.* Pliocene Antarctic Glaciation Workshop, Woods Hole, MA.
- 1994-5 *International Expedition Leader - Victoria Land Coast, Antarctica.*
- 1994 *Invited Speaker: Ecological variability in Antarctic coastal areas: past and present -* Scientific Committee on Antarctic Research Sixth Biology Symposium, Venice, Italy.
- 1994 *Invited Speaker: Coastal uplift - a tectonic record? (Workshop on the Geodynamic Evolution of the Transantarctic Mountains and West Antarctic Rift System, Estes Park, CO.*
- 1993 *Co-Convener: Holocene Fossil Geochemistry in Antarctic Coastal Areas.* International Workshop on Holocene Environmental Changes in Antarctic Coastal Areas, Tokyo, Japan.
- 1993 *Invited Speaker: Assessing Antarctic ice sheet-sea level dynamics during the Holocene: the 'meltwater test'."* Third International Symposium on Antarctic Science - Antarctic Biology and Ecology, Seoul, Korea.
- 1993 *Invited Speaker: Interpreting the West Antarctic Ice Sheet contribution to Holocene sea level changes.* International Symposium on Quaternary Environmental Changes in the Pacific Region, Tokyo, Japan.
- 1991 *Participant: A circumpolar record of melting along Antarctic ice sheet margins during the Holocene.* International Conference on Antarctic Science - Global Concerns, Bremen, Germany.
- 1991 *Session Convener: Polar Benthic Ecology Session.* 17th Marine Benthic Ecology Meeting. Williamsburg, VA
- 1989 *Speaker: Conservation of the Circumpolar Antarctic Scallop.* 7th International Pectinid Workshop, Portland, ME.

- 1989 *Invited Speaker: Research in the Antarctic.* United States Coast Guard Academy, New London, CT.
- 1988 *Speaker: Size thresholds of the Antarctic scallop.* American Society of Zoologists, San Francisco, CA
- 1988 *Invited Speaker: Conservation of the circumpolar Antarctic scallop, Adamussium colbecki (Smith, 1902).* Scientific Committee on Antarctic Research Fifth Biology Symposium, Hobart, Tasmania, Australia.
- 1988 *Speaker:: Ecology of the Antarctic scallop, Adamussium colbecki, in New Harbor, Antarctic During the 1986 Austral Summer.* American Geophysical Union, New Orleans, LA.
- 1985 *Speaker: Epizooic succession and community dynamics on the sea scallop Placopecten magellanicus, in the Gulf of Maine.* Undersea Science Symposium, University of Connecticut, Avery Point, CT.
- 1984 *Invited Speaker: Winter research diving in McMurdo Sound, Antarctica .* ICEDIVE 84, Stockholm, Sweden
- 1980 *Speaker: Cryptic coloration of the intertidal isopod, Idotea montereyensis.* California Ecological Research Society Fifth Symposium, California State University, Sacramento, CA.
- 1980 *Speaker: Ecology of the Intertidal Isopod, Idotea montereyensis.* Fifth Undergraduate Research Conference, Santa Clara, California.