

# PAUL ARTHUR BERKMAN

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**Distinguished scholar, interdisciplinary oceanographer, polar explorer and global thought-leader integrating science, policy and information technology in the common interests of humankind.**

## 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 AND HONOURS

2014-2015 *Science Diplomacy Fellow.* Fletcher School of International Law and Diplomacy. Tufts University (United States).  
2011 *Elected Member,* Norwegian Scientific Academy for Polar Research (Norway).  
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 (United States).  
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 (United States).  
1996 *Faculty Innovator Award:* Technology Enhanced Learning and Research Program, Ohio State University (United States).  
1996 *JSPS Visiting Scientist Fellowship:* Japanese Ministry of Science, Education and Culture; Japan Society for the Promotion of Science, National Institute of Polar Research (Japan).

- 1992-1994 *JSPS Postdoctoral Fellowship*: Japanese Ministry of Science, Education and Culture; Japan Society for the Promotion of Science, National Institute of Polar Research (Japan).
- 1991 *Outstanding Faculty Award*: Sphinx and Mortar Board Honor Societies, The Ohio State University (United States).
- 1989-1990 *Byrd Fellowship*: Byrd Polar Research Center, The Ohio State University (United States).
- 1983-1988 *NSF Graduate Fellowship*: National Science Foundation (United States).
- 1980-1981 *Antarctic Service Medal (Winter-Over)*: United States Congress, (United States).
- 1972 *Eagle Scout*: Boy Scouts of America (United States).

## EXPERIENCE

- 2015-2020 *Coordinator and Principal Investigator: Pan-Arctic Options: Holistic Integration for Arctic Coastal-Marine Sustainability*. Project funded by the Belmont Forum consortium of national science agencies in Canada, China, France, Norway, Russian Federation and United States.
- 2015 *Member, Local Organizing Committee, 2<sup>nd</sup> Polar Data Forum*, Ottawa, Canada.
- 2014 *Co-Chair: International Conference on Data Sharing and Integration for Global Sustainability*. International Council of Science (ICSU) / World Data System (WDS) and Committee for Data Science and Technology (CODATA), New Delhi (India).
- 2014 *Visiting Distinguished Professor: Arctic Science Diplomacy*. MGIMO University, Moscow (Russian Federation).
- 2014 *Chair and Co-Convener: Workshop on Safe Ship Operations in the Arctic Ocean*. United Nations, International Maritime Organization (IMO) Headquarters, London (United Kingdom).
- 2014 *Global Luminary: National Geographic Explorer*, Lindblad Expeditions (Southern Ocean).
- 2013-2016 *Coordinator and Principal Investigator: Arctic Options: Holistic Integration for Arctic Coastal-Marine Sustainability*. Project funded by the National Science Foundation (United States) and Centre Nationale de la Recherche Scientifique (France).
- 2013 *Visiting Distinguished Professor: Polar Science and Policy*, Buryat State University. Ulan Ude (Russian Federation).
- 2012 *Global Luminary: National Geographic Explorer*, Lindblad Expeditions (Arctic Ocean).
- 2012 *Invited Reviewer: MISTRA Futures Programme*. Stockholm (Sweden).
- 2012-Present *Chief Executive Officer and Chairman: Digital Integration Technology Limited* (United Kingdom).
- 2011-2015 *Chercheur Senior: Université Pierre et Marie Curie, Sorbonnes Universités*, Paris (France).
- 2011-2016 *Principal Investigator: Arctic Climate Change, Economy and Society (ACCESS)*. Project funded by the European Commission from 2011-15 (United Kingdom).
- 2011-2012 *Expert*, European Space Agency, Paris (France).
- 2010-Present *Board Member (Chair since 2012): Foundation for the Good Governance of International Spaces* (United Kingdom). ([www.internationalspaces.org](http://www.internationalspaces.org))
- 2010 *Invited Reviewer: MISTRA Futures Programme*. Stockholm (Sweden).
- 2010 *Consultant*, Ministry of Justice (United Kingdom).

- 2009-2011 *Co-Director and Convener:* NATO Advanced Research Workshop on Environmental Security in the Arctic Ocean. 13-15 October 2010, University of Cambridge (United Kingdom).
- 2008-2011 *Head,* Arctic Ocean Geopolitics Programme, Scott Polar Research Institute and Judge Business School, University of Cambridge (United Kingdom).
- 2008-2009 *Member,* Working Group on Environmental Policy, Arctic TRANSFORM Project, European Commission. (Germany)
- 2007-2009 *Convener and Chair of the International Board:* Antarctic Treaty Summit: Science-Policy Interactions in International Governance. 30 November – 3 December 2009. ([www.atsummit50.aq](http://www.atsummit50.aq)). Smithsonian Institution, Washington, D.C. (United States)
- 2005-Present *Research Professor:* Bren School of Environmental Science and Policy, University of California, Santa Barbara (United States).
- 2005-2008 *Chair:* Working Group on Knowledge Management and Discovery. Electronic Geophysical Year (United States).
- 2004-2007 *Chair:* Sustainability Standing Committee for the National Science Foundation, National Science Digital Library (NSDL) program (United States).
- 2004 *Host Lecturer:* Travel Dynamics cruise to Antarctica on the 'Orion' (Southern Ocean).
- 2003-2005 *Associate Research Professor:* Bren School of Environmental Science and Policy, University of California, Santa Barbara (United States).
- 2003-2007 *Chief Scientist:* The New Media Studio, Santa Barbara (United States).
- 2002-2006 *United States Team Member:* International Preservation of Authentic Electronic Records (InterPARES 2) Project (United States).
- 2001-2002 *Visiting Professor and Antarctic Expedition Co-Leader.* Graduate Certificate in Antarctic Studies Programme. Gateway Antarctica, University of Canterbury (New Zealand).
- 1999-Present *Chief Executive Officer (Founder and Owner),* EvREsearch LTD (United States).
- 1999-2002 *Chair:* Project CLEAR (Community Leadership to Effect Air Emission Reductions): City of Columbus, Ohio (United States).
- 1998-2003 *Research Scientist:* Byrd Polar Research Center, The Ohio State University (United States).
- 1998-2003 *Member:* Diving Control Board, The Ohio State University (United States).
- 1998-1999 *International Expedition Leader:* Terra Nova Bay, Antarctica. National Science Foundation and Italian Antarctic Research Program (Antarctica).
- 1997-2000 *Member, Steering Committee:* Antarctic Ice Margin Evolution (ANTIME) Program, Scientific Committee on Antarctic Research (SCAR) / International Geosphere-Biosphere Program (PAGES), (United States).
- 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 (United States).
- 1994-1998 *Senior Research Associate:* Byrd Polar Research Center, The Ohio State University (United States).
- 1994-1996 *Member, Science Advisory Group:* Consortium for International Earth Science Information Network (CIESIN) (United States).

- 1994-1995 *International Expedition Leader*: Victoria Land Coast Expedition, National Science Foundation and Italian Antarctic Research Program (Antarctica).
- 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 (United States).
- 1991-2003 *Adjunct Professorships*: Department of Ecology, Evolution and Organismal Biology; Environmental Science Graduate Program; School of Natural Resources; The Ohio State University (United States).
- 1990-1994 *Research Associate*: Byrd Polar Research Center, The Ohio State University (United States).
- 1989-1990 *Byrd Fellow*: Byrd Polar Research Center, The Ohio State University (United States).
- 1987 *Lecturer*: Graduate School of Oceanography, University of Rhode Island (United States).
- 1986-1987 *Visiting Scientist*, Scripps Institution of Oceanography (Antarctica).
- 1983-1984 *Graduate Research Assistant*: Graduate School of Oceanography, University of Rhode Island (United States).
- 1983 *Consultant*: Antarctica Project, Washington, D.C. (United States).
- 1982 *Visiting Professor*: Council on Educational Development, University of California Los Angeles (United States).
- 1982 *Legal Assistant*: Knossaman, Krueger and Marsh, Los Angeles (United States).
- 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 (United States).
- 1978-1980 *Research Assistant*: Marine Science Institute, University of California, Santa Barbara.

## Books

2013. Berkman, P.A. and Vylegzhanin, A.N. (eds.). **Environmental Security in the Arctic Ocean**. Springer, Dordrecht. 459 p.
2012. Berkman, P.A. **Environmental Security in the Arctic Ocean: Promoting Cooperation and Preventing Conflict**. (With Foreword by Adm. James G. Stavridis, NATO Supreme Allied Commander for Europe). Korean Translation – Korean Polar Research Institute, Ansan (with permission from Routledge, London). 136 p.
2011. 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**. (With Foreword by HSH Prince Albert II of Monaco). Smithsonian Institution Scholarly Press, Washington, DC. 337 p.
2010. Berkman, P.A. **Environmental Security in the Arctic Ocean: Promoting Cooperation and Preventing Conflict**. (With Foreword by Adm. James G. Stavridis, NATO Supreme Allied Commander for Europe). Routledge, London. 135 p.
2002. Berkman, P.A. **Science Into Policy: Global Lessons From Antarctica**. Academic Press, San Diego. 252 p.
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.

## Author of RESOLUTION ADOPTED WITH UNANIMOUS CONSENT BY THE UNITED STATES CONGRESS

- 2009 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 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***) and United States Senate with sponsorship of Senator Barbara Boxer of California on 1 December 2009 (***Senate Resolution 365***). Acknowledgement from Congressman Patrick Tiberi in the ***Congressional Record***, Volume 155 (45) on 8 October 2009.

## PEER-REVIEWED PUBLICATIONS

2016. Berkman, P.A., Vylegzhanin, A.N. and Young, O.R. Governing the Bering Strait Region: Current Status, Emerging Issues, Future Options. ***Ocean Development and International Law*** (in press).
- 2015 Berkman, P.A. and J.G. Stavridis. Responding to Crisis in the Arctic: A Modest Proposal. ***Proceedings (U.S. Naval Institute)*** 141(12-1):36-37.
- 2015 Berkman, P.A. Institutional Dimensions of Sustaining Arctic Observing Networks (SAON). ***Arctic*** 68 (Suppl. 1). <http://dx.doi.org/10.14430/arctic4499>.
- 2014 Berkman, P.A. "Unstructured Data" Practices in Polar Institutions and Networks: A Case Study with the Arctic Options Project. ***CODATA Data Science Journal*** 13:64-71 ([https://www.jstage.jst.go.jp/article/dsj/13/0/13\\_IFPDA-11/\\_pdf](https://www.jstage.jst.go.jp/article/dsj/13/0/13_IFPDA-11/_pdf)).
- 2014 Berkman, P.A. Stability and Peace in the Arctic Ocean through Science Diplomacy. ***Science & Diplomacy***. June 2014: 26-35. ([www.sciencediplomacy.org/perspective/2014/stability-and-peace-in-arctic-ocean-through-science-diplomacy](http://www.sciencediplomacy.org/perspective/2014/stability-and-peace-in-arctic-ocean-through-science-diplomacy)).
- 2013 Berkman, P.A. and Vylegzhanin, A.N. Preface: International, Interdisciplinary and Inclusive Perspectives. IN: Berkman, P.A. and Vylegzhanin, A.N. (eds.). **Environmental Security in the Arctic Ocean**. Springer, Dordrecht. Pp. xix-xxvi.
- 2013 Berkman, P.A. and Vylegzhanin, A.N. Conclusions: Building Common Interests in the Arctic Ocean. IN: Berkman, P.A. and Vylegzhanin, A.N. (eds.). **Environmental Security in the Arctic Ocean**. Springer, Dordrecht. Pp. 371-404.
- 2012 Berkman, P.A. Geopolitics of Arctic Sea-Ice Minima. ***The Brown Journal of World Affairs***. 19(1):1-9.
- 2012 Berkman, P.A. Our Common Future in the Arctic Ocean. ***The Round Table*** 101(02):123-135.
- 2012 Berkman, P.A. 'Common Interests' as an Evolving Body of International Law: Applications for Arctic Ocean Stewardship. In: Wolfrum, R. (ed). **Arctic Marine Science, International Law and Climate Protection. Legal Aspects of Future Marine Science in the Arctic Ocean**. Springer, Heidelberg. 155-174.
- 2011 Berkman, P.A. President Eisenhower, the Antarctic Treaty and Origin of International Spaces. IN: 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, DC. pp.17-28.
- 2011 Berkman, P.A., Walton, D.W.H. and Young, O.R. Conclusions. IN: 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, DC. pp. 299-310..
- 2010 Berkman, P.A. Biodiversity Stewardship in International Spaces. ***Systematics and Biodiversity*** 8(3): 311–320.

- 2010 Berkman, P.A. Integrated Arctic Ocean Governance for the Lasting Benefit of All Humanity. IN: Wolfrum, R. (ed). **New Challenges and New Responsibilities in the Arctic Region**, Max Planck Institute, Heidelberg. pp. 187-194.
- 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 Stabaubwasser, 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.
- 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 Dalziell, 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. 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.

## OPeD PUBLICATIONS

- 2015 Berkman, P.A. Let Science Guide the Way in the Arctic. ***New York Times***, 21 May 2015.
- 2015 Berkman, P.A., Axworthy, L.N. and Young, O.R. Escalating Tensions Challenge U.S. Chairmanship of the Arctic Council. ***Huffington Post***, 6 April 2015.
- 2013 Berkman, P.A. Preventing an Arctic Cold War. Op-Ed. ***New York Times***, 12 March 2013.
- 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. (<http://dailyme.com/story/2009120200003549/united-states-leadership-arctic-ocean.html>).

## MISCELLANEOUS PUBLICATIONS

- 2011 Berkman, P.A. "Let the North Pole be a Pole of Peace." ***Global: The International Briefing***, 3<sup>rd</sup> Quarter, pp. 12-15.
- 2011 Berkman, P.A. Breaking the Ice. ***Parliament Magazine*** 4 April 2011.
- 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.
- 2008 Final Report of the XXXI Antarctic Treaty Consultative Meeting, Kiev. *Information Paper 88 – Antarctic Treaty Summit: Science-Policy Interactions in International Governance June 2008* [http://www.scar.org/treaty/atcmxxxi/Atcm31\\_ip088\\_Summit.pdf](http://www.scar.org/treaty/atcmxxxi/Atcm31_ip088_Summit.pdf)



- 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.

## PATENTS ASSIGNED TO EvRESEARCH LTD

**"Information Management, Retrieval and Display Systems and Associated Methods."** Registered in: Australia (Patent No. 770087), Canada (Patent No. 2371362), Europe (patents allowed), India (Patent No. 231476), Japan (Patent No. 3883810), Mexico (Patent No. 233474), New Zealand (Patent No. 515007) and the United States of America (Patent Nos. 6,175,830, 6,484,166 and RE042167).

**"Storage Medium Encoded with a Server and Method Using Same."** Registered in: Canada (patent no. 2454740) and the United States of America (Patent No. 7440995).

**"Search Tool Granularity Selection and Interface."** Registered internationally with the Patent Cooperation Treaty (patents pending).

## 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.
- 2006 Berkman, P.A. and Morgan, G.J. Marine Mammal Commission Digital Library of International Environmental and Ecosystem Policy Documents. CD-ROM.
- 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 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>d</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.
- 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

## UNIVERSITY COURSES

- 2016 *Science Diplomacy: Environmental Security in the Arctic Ocean*. Fletcher School of Law and Diplomacy, Tufts University (United States)
- 2015 *Workshop on Science Diplomacy: Environmental Security in the Arctic Ocean*. Fletcher School of International Law and Diplomacy, Tufts University (United States).
- 2014 Workshop on Science Diplomacy in the Polar Regions. International Law Programme, MGIMO University (Russian Federation).
- 2013 Workshop on Science Diplomacy and International Spaces. Buryat State University (Russian Federation).
- 2001-2002 Graduate Certificate in Antarctic Studies Programme. Gateway Antarctica, University of Canterbury (New Zealand).
- 1996-2003 *Law of the Sea*. University Center for International Studies (UCIS 501D), The Ohio State University (United States).
- 1996 *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 (United States).
- 1996 *National Seminars: Interactions Between Society and the Environment; Environmental Systems and Climate Change; and Environmental Responsibility: Policy and Politics*. The Ohio State University (United States).
- 1992-1999 *Marine Biology and Ecology*. Department of Ecology, Evolution and Organismal Biology (EEOB 505), The Ohio State University (United States).
- 1991-2003 *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 (United States).
- 1990 *Antarctic Ecology and Paleoecology*. Department of Geology and Mineralogy (GEOL 896), The Ohio State University (United States).
- 1987 *Antarctic Science*. Graduate School of Oceanography (OCG 694I), University of Rhode Island (United States).
- 1982 *Antarctic Marine Ecology and Ocean Policy*. Council on Educational Development, University of California, Los Angeles (United States).
- 1980 *Lecturer, An Ecological Approach to Adaptation*. College of Creative Studies, University of California, Santa Barbara (United States).

## GRADUATE STUDENTS

- 2011 Eucker, W. *A Geospatial Analysis of Arctic Marine Traffic*. Doctorate of Philosophy, University of Cambridge.
- 2009 Eucker, W. *Monitoring Surface Ship Movement in the Ice-Diminishing Arctic Ocean..* Masters of Philosophy. University of Cambridge.
- 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.

## ACADEMIC FUNDING

- Berkman, P.A., Young, O.R., Halpern, B.S., Brigham, L.W., Gascard, J.C., Provost, C., Winther, J.G., Sun, K., Vylegzhanin, A.S. and Taylor, D.R.F. *Pan-Arctic Options: Holistic Integration for Arctic Coastal-Marine Sustainability*. Project proposed to the Belmont Forum International Opportunities Fund Call for Proposals on Arctic Observing and Science for Sustainability to be funded in Canada, China, France, Norway, Russian Federation and United States. (6/15-6/20 approved - [www.igfagcr.org/announcements/2015/belmont-forum-announces-collaborative-research-awards-arctic-observing](http://www.igfagcr.org/announcements/2015/belmont-forum-announces-collaborative-research-awards-arctic-observing)).
- Pulsifer, P.L. and Berkman, P.A. The Second Polar Data Forum: Understanding the Polar Regions through Globally Collaborative Data Management. Project funded by the National Science Foundation (United States). 2/15-2/16.

- Berkman, P.A., Young, O.R., Davis, F., Gascard, J.C. and Provost, C. *Arctic Options: Holistic Integration for Arctic Coastal-Marine Sustainability*. Project funded by the National Science Foundation (United States) and Centre Nationale de la Recherche Scientifique (France). 9/13-9/16. ([www.arcticoptions.org](http://www.arcticoptions.org)).
- Berkman, P.A. (with others). 2011. Arctic Climate Change, Economy and Society (ACCESS). European Commission (Directorate-General for Mobility and Transport). 3/11-3/15.
- Berkman, P.A. 2010. *Environmental Security in the Arctic Ocean*. NATO Advanced Research Workshop. Aspen Institute. 9/10-2/11.
- Berkman, P.A. 2010. *Environmental Security in the Arctic Ocean*. NATO Advanced Research Workshop. Shell International Exploration and Production. 7/10-2/11.
- Berkman, P.A.. 2010. *Environmental Security in the Arctic Ocean*. NATO Advanced Research Workshop. Dartmouth University / John Sloan Dickey Center for International Understanding. 6/10-2/11.
- Berkman, P.A.. 2010. *Environmental Security in the Arctic Ocean*. NATO Advanced Research Workshop. and WWF International Arctic Programme. 6/10-2/11.
- Berkman, P.A. and Vylegzhanin, A.N. 2010. *Environmental Security in the Arctic Ocean*. North Atlantic Treaty Organization (NATO) Advanced Research Workshop. NATO Science for Peace and Security Programme. (Miscellaneous Co-Sponsorships the: Canadian Polar Commission; Ecologic Institute; NATO Parliamentary Assembly). 1/10-2/11
- 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.ag/about\\_summit/sponsorship.php](http://www.atsummit50.ag/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
- Berkman, P.A. and Lang, M. *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. and Young, O.R. *Antarctic Treaty Summit: Science-Policy Interactions in International Governance*. (The Tinker Foundation). 6/08-3/10
- Berkman, P.A. and Lang, M.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.
- 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

- 2016 *Invited Keynote*, XXIII Congress of the International Society for Photogrammetry and Remote Sensing, Prague (Czech Republic).
- 2016 *Invited Panelist*, U.S.-Russia Relations in the Arctic. Harriman Institute for Russian, Eurasian, and East European Studies, Columbia University (United States).



- 2016 *Invited Panelist*, Arctic Futures Initiative. American Association for the Advancement of Science (AAAS) / International Institute for Applied Systems Analysis (IIASA), Washington, D.C. (United States).
- 2016 *Invited Participant*, 5<sup>th</sup> Annual Neureiter Science Diplomacy Roundtable. American Association for the Advancement of Science (AAAS), Washington, D.C. (United States).
- 2015 *Guest of Honor and Opening Keynote* – Arctic Futures Initiative meeting, International Institute for Applied Systems Analysis, Vienna (Austria).
- 2015 *Invited Panelist*, Arctic Circle, Singapore. (Singapore).
- 2015 *Organizing Committee Member and Invited Keynote*, Polar Data Forum II, Waterloo University, Waterloo (Canada).
- 2015 *Convener* – Arctic High Seas session. Arctic Circle, Reykjavik (Iceland).
- 2015 *Invited Keynote*, WWF-Russia Meeting on the Bering Strait, United States Embassy, Moscow (Russian Federation).
- 2015 *Visiting Professor: Science Diplomacy in the Polar Regions*. Royal College of Defense Studies, London (United Kingdom).
- 2015 *Invited Keynote* – Roundtable on Preventing Unregulated Use of Marine Living Resources in the Central Arctic Ocean. Ministry of Foreign Affairs, MGIMO University, Moscow (Russian Federation).
- 2015 *Invited Keynote* – Annual Meeting. InterAction Council, Wales.
- 2015 *Invited Keynote* – *Arctic Resource Development and Infrastructure III*. Bering Sea Alliance, Village of Gambell, St. Lawrence Island (United States)
- 2015 *Session Chair and Steering Committee Member* – *Science Diplomacy 2015: Scientific Drivers for Diplomacy*. American Association for the Advancement of Science, Washington, DC. ([www.aaas.org/event/science-diplomacy-2015-scientific-drivers-diplomacy](http://www.aaas.org/event/science-diplomacy-2015-scientific-drivers-diplomacy)).
- 2015 *Invited Presenter* – *Fletcher Warming Arctic International Inquiry IV: Leadership, diplomacy and Science- Resolving the Arctic Paradox*. Fletcher School of Law and Diplomacy, Tuft University. Cambridge, Massachusetts.
- 2015 *Invited Keynote* – *Science Diplomacy and the Arctic*. Finnish Academies of Science, Helsinki. ([www.academies.fi/en/presentations-of-the-science-diplomacy-and-the-arctic-seminar-now-available/](http://www.academies.fi/en/presentations-of-the-science-diplomacy-and-the-arctic-seminar-now-available/)).
- 2014 *Invited Keynote* – *Arctic Resource Development and Infrastructure II*. Bering Sea Alliance, Village of Gambell, St. Lawrence Island (United States)
- 2014 *Visiting Professor: Science Diplomacy in the Polar Regions*. Royal College of Defense Studies, London (United Kingdom).
- 2014 *Participant*: Arctic Observing Summit, Helsinki (Finland).
- 2014 *Invited Keynote*, *Arctic 2050: Toward Ecosystem-Based Management in a Changing Arctic Ocean*. European Marine Board / European Polar Board, Brussels (Belgium). (<http://www.marineboard.eu/4thforum>).
- 2014 *Invited Speaker*. 5<sup>th</sup> ACI Polar Shipping Conference, London (United Kingdom).
- 2013 *Invited Speaker*: Expert Meeting on Energy and Security in the Arctic. International Peace Institute (IPI) and International Gas Union (IGU). The Hague (Netherlands).
- 2013 *Invited Speaker and Panelist*: North Atlantic Treaty Organization (NATO) Maritime Commander's Meeting (with the NATO Supreme Allied Commander Europe and the heads of 44 Navies). London (United Kingdom).

- 2013 *Invited Keynote:* 6<sup>th</sup> Malaysian International Seminar on Antarctica. Penang (Malaysia)
- 2013 *Invited Keynote and Panelist:* International Polar Data Forum, International Council of Science, World Data System, International Arctic Science Committee. Tokyo (Japan)
- 2013 *Invited Participant,* The 3<sup>rd</sup> International Arctic Forum of Dialogue (with President Vladimir Putin of Russia, President Ólafur Ragnar Grímsson of Iceland and President Sauli Niinistö of Finland). Russian Geographic Society. Salekhard (Russian Federation).
- 2013 *Visiting Professor.* Science Diplomacy and International Relations. MGIMO University. Faculties of International Law and International Relations. Moscow (Russian Federation).
- 2013 *Television Guest:* Regional Television of Buryatia Broadcast on 18 September 2013. Ulan-Ude (Russian Federation). ([http://bgtrk.ru/video/detail.php?ID=5999&SECTION\\_ID=60](http://bgtrk.ru/video/detail.php?ID=5999&SECTION_ID=60)).
- 2013 *Visiting Professor:* Law of the Sea and Earth System Science. Buryat State University, Ulan-Ude (Russian Federation).
- 2013 *Invited Speaker:* Arctic Observing Summit, International Study for Arctic Change, Montreal (Canada).
- 2013 *Visiting Professor: Science Diplomacy in the Polar Regions.* Royal College of Defense Studies, London (United Kingdom).
- 2013 *Invited Keynote:* The Trans-Arctic Agenda: Challenges of Development, Security, Cooperation. University of Iceland, Stockholm International Peace Research Institute, Swedish and Icelandic, Ministries of Foreign Affairs, Reykjavik (Iceland).
- 2013 *Invited Expert: Environment, Climate Change and Security in the Arctic.* European Environment Agency and Organization for Security and Co-Operation in Europe. Copenhagen (Denmark).
- 2012 *Invited Speaker:* A New Era in Maritime Security? Risks, Rules and Responsibilities. Chatham House, London (United Kingdom).
- 2012 *Invited Panelist: Global Economic Symposium 2012,* Rio de Janeiro (Brazil).
- 2012 *Visiting Professor:* Science Diplomacy in the Polar Regions. Royal College of Defense Studies, London (United Kingdom).
- 2012 *Invited Expert: Cooperation of States in the Protection of the Environment and Conservation of Marine Living Resources in the Arctic Ocean.* Russian Foreign Ministry, Russian Council on International Issues, Pew International, Russian Association on the Law of the Sea. Moscow (Russian Federation).
- 2012 *Invited Keynote: Democracy at the End of the World: New Perspectives on the Politics and Government of Antarctica.* Sydney Democracy Initiative. Sydney (Australia).
- 2012 *Invited Speaker:* Climate and Security: Evidence, Emerging Risks and a New Agenda. Sciences Po and Intergovernmental Panel on Climate Change, Paris (France).
- 2012 *Invited Speaker and Chair:* 3<sup>rd</sup> ACI Polar Shipping Conference, London, United Kingdom.
- 2012 *Session Convener:* International Polar Year – From Knowledge to Action. *Session 2.2.7 Sustainable Arctic Development: Integrated Perspectives.* Montreal (Canada).
- 2011 *Co-Convener:* White-Blue Arctic: Promoting Cooperation and Preventing Conflict in the Arctic Ocean. American Association for the Advancement of Science (AAAS) Annual Meeting, Washington, DC (United States).
- 2011 *Lead Author for the Security Chapter:* Arctic Human Development (AHDR) II. Arctic Council, Sustainable Development Working Group ((Iceland).

- 2011 *Visiting Professor: Science Diplomacy in the Polar Regions.* Royal College of Defense Studies, London (United Kingdom).
- 2011 *Invited Keynote – Anticipating the Future: Risk Management for Long-Term Planning.* Cambridge Centre for Risk Studies, 3<sup>rd</sup> Annual Meeting, Judge Business School, University of Cambridge, Cambridge (United Kingdom).
- 2011 *Lead Author – Planning Meeting for the Arctic Human Dimensions Report II.* Arctic Council, Sustainable Development Working Group. Copenhagen (Denmark).
- 2011 *Invited Speaker:* International Maritime Organization: – Workshop on Environmental Aspects of the Polar Code. University of Cambridge (United Kingdom).
- 2011 *Invited Keynote:* Sustainable Shipping Conference. Vancouver (Canada).
- 2011 *Invited Participant,* The 2<sup>nd</sup> International Arctic Forum of Dialogue (with Prime Minister Vladimir Putin from Russia, President Ólafur Ragnar Grímsson from Iceland and HSH Prince Albert II of Monaco). Russian Geographic Society. Arkhangelsk (Russian Federation).
- 2011 *Invited Expert:* Online Question & Answer with the *Guardian Newspaper* (United Kingdom).
- 2011 *Invited Speaker:* 77<sup>th</sup> Rose-Roth Seminar on Changes in the High North: Implications for NATO and Beyond. Stortinget (Norwegian Parliament) and NATO Parliamentary Assembly, Tromsø (Norway).
- 2011 *Invited Session Chair:* Environmental and Strategic Challenges for Arctic Shipping. Arctic Shipping Summit, Helsinki (Finland).
- 2011 *Invited Panelist:* British Perspectives on the South Atlantic. Institute for Statecraft. University of Westminster, London (United Kingdom).
- 2011 *Invited Panelist:* *Polar Bears, Politics and Petroleum Conflicting Issues in Arctic Hydrocarbon Exploration.* Geologic Society. London (United Kingdom).
- 2011 *Invited Lecturer:* International Spaces: Crossing The Global Governance Threshold in Our Civilization. Conference on Earth System Governance, Colorado State University, Colorado (United States).
- 2011 *Invited Keynote: Balancing National Interests and Common Interests Beyond National Boundaries.* Rapid Warming in the Polar Regions and its Implication to the Pacific. 5<sup>th</sup> Malaysian International Seminar on Antarctica. Kuala Lumpur (Malaysia).
- 2011 *Invited Lecture:* Exploring Common Interests. Preparing for Rio+20. University Sains Malaysia. Penang (Malaysia).
- 2011 *Invited Lecture:* Balancing National Interests and Common Interests in the Arctic Ocean. National Institute of Polar Research, Tokyo (Japan).
- 2011 *Invited Plenary Address:* Environmental State-Change in the Arctic Ocean: Legal and Policy Consequences for the Global Community. Arctic Summit Science Week, International Arctic Science Committee. Seoul (South Korea).
- 2011 *Invited Panelist:* Balancing National Interests and Common Interests in the Arctic Ocean. Arctic Science, International Law and Climate Protection - Legal Aspects of Marine Science in the Arctic Ocean. German Federal Foreign Office, Berlin (Germany).
- 2011 *Invited Panelist:* Knowledge, Resources and Legal Regimes: The New Geopolitics of the Polar Regions. National Environmental Research Council, British Library, London (United Kingdom).
- 2010 *Invited Speaker: Balancing National Interests and Common Interests in the Arctic Ocean.* International Arctic Conference: Geopolitical Issues and Equation in the 21<sup>st</sup> Century. Centre Jacques Cartier. Lyons (France).

- 2010 *Visiting Professor:* Science Diplomacy and International Relations. MGIMO University. Faculties of International Law and International Relations. Moscow (Russian Federation).
- 2010 *Invited Keynote,* Workshop on the Future of Space Cooperation in the Arctic Region. European Space Agency, Paris (France).
- 2010 *Invited Keynote:*. The Arctic Ocean: Changes and Opportunities. The Special Lecture with Invited Arctic Experts and Briefing on Study Results *Korea Maritime Institute*; Ministry of Land, Transport and Maritime Affairs; Korea International Trade Association. Seoul (South Korea).
- 2010 *Invited Keynote.* Whitehall Paper Launch on Environmental Security in the Arctic Ocean. Royal United Services Institute for Security and Diplomacy Studies, London (United Kingdom).
- 2010 *Invited Participant.* The Arctic: Forum for Dialogue (with Prime Minister Vladimir Putin from Russia, President Ólafur Ragnar Grímsson from Iceland and HSH Prince Albert II of Monaco). Russian Geographic Society, Moscow (Russian Federation).
- 2010 *Invited Participant:* Science Diplomacy: Applying Science and Innovation to International Challenges. Wilton Park, British Foreign and Commonwealth Office (United Kingdom).
- 2010 *Dinner Keynote:, Governance and Security Issues in the Arctic.* The Athenaeum Club, London, (United Kingdom).
- 2010 *Invited Keynote:* InterAcademy Panel on International Issues. Biodiversity Conference, The Royal Society, London (United Kingdom).  
([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 (United States).  
(<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 (United Kingdom).  
([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-fiia.fi/en/event/233/](http://www.upi-fiia.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 (United Kingdom). ([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 (United Kingdom). ([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 (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. (United Kingdom). (<http://www.bbc.co.uk/programmes/b00fmfpz>)
- 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).
- 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 Keynote*: 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 (United States)
- 2007 *Honoured Guest:* Fulbright Scholars Reception. King's College London (United Kingdom).
- 2007 *Invited Participant:* Electronic Geophysical Year Steering Committee Meeting, Boulder (United States).
- 2006 *Invited Participant,* Workshop to Develop a Task Force on Digital Library Sustainability. Library of Congress, Washington, D.C. (United States).
- 2006 *Co-Convenor:* The New Frontier in Defining the Data to Knowledge Paradigm. Committee on Data for Science and Technology (CODATA). International Council of Science, Beijing (China).
- 2006 *Invited Speaker:* Interdisciplinary Research During the International Polar Year. Valparaiso University, Valparaiso (United States).
- 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 (Canada).
- 2006 *Invited Participant:* Electronic Geophysical Year Steering Committee Meeting, Boulder (United States).
- 2005 *Invited Doctoral Dissertation External Examiner:* University of, Cambridge, (United Kingdom).
- 2005 *Invited Speaker:* Deciphering Data: Communicating Research Activities and Findings to Diverse Audiences. American Geophysical Union, San Francisco (United States).
- 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, Texas (United States).
- 2005 *Invited Participant:* International Research on Permanent Authentic Records in Electronic Systems (InterPARES). Chicago (United States).
- 2005 *Participant and Panel Convenor:* National Science Foundation, National Science Digital Library (NSDL) Annual Meeting, Chicago (United States).
- 2005 *Invited Participant:* Policy Committee Meeting, National Science Digital Library (NSDL). Columbia University, Palisades (United States).
- 2005 *Invited Participant:* Universities Space Research Association, National Aeronautics and Space Administration, Earth System Science Education (ESSE) meeting. Fairbanks (United States).
- 2005 *Invited Participant:* International Research on Permanent Authentic Records in Electronic Systems (InterPARES). Vancouver (Canada).
- 2005 *Invited Keynote Speaker:* Sustaining the National Science Digital Library. CENDI (Federal Managers of Science Technology Information Group), National Science Foundation, Washington, DC (United States).
- 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 (Canada).
- 2004 *Participant and Workshop Convenor:* National Science Foundation, National Science Digital Library (NSDL) Annual Meeting, Chicago (United States).

- 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 (United States).
- 2003 *Invited Keynote Speaker:* Biological Interaction between the Antarctic and the Magellan Region *International Symposium and Workshop*. Ushuaia (Argentina).
- 2003 *Invited Participant:* International Research on Permanent Authentic Records in Electronic Systems (InterPARES). Los Angeles (United States).
- 2003 *Invited Participant:* Digital Library for Earth System Education. University of Colorado, Boulder (United States).
- 2003 *Invited Speaker:* Earth System Science and Policy Institute, California State University. Monterey Bay (United States).
- 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, DC (United States).
- 2002 *Invited Participant:* 85<sup>th</sup> Polar Research Board Meeting, National Academy of Sciences. Washington , DC (United States).
- 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 (United States).
- 2002 *Invited Participant,* Integrating Education in Biocomplexity Research Workshop, National Academy of Sciences, Washington DC (United States).
- 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 (United States).
- 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 (United States).
- 2001 *Keynote Speaker:* 6<sup>th</sup> International Wildlife Law Conference. American Society of International Law, Washington College of Law, American University. Washington, DC (United States).
- 2000 *Invited Speaker:* Digital Library for Earth System Education Symposium. Geological Society of America, Reno, Nevada (United States).
- 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 Risho 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. Risho University (Japan).
- 1999 *Invited Speaker:* 82<sup>nd</sup> Polar Research Board Meeting, National Academy of Sciences, Washington, DC (United States).
- 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 (United States).
- 1998 *Co-Convenor:* 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 (United States).
- 1997 *Invited Speaker:* Interdisciplinary Environmental Research in Antarctica. Risho University (Japan).
- 1997 *Invited Speaker:* Holocene Geochemistry of Antarctic molluscs. 17<sup>th</sup> National Institute of Polar Research Earth Science Symposium, Tokyo (Japan)
- 1997 *Invited Participant:* 6<sup>th</sup> United States/Japan Workshop on Global Change Research - East-West Center, Honolulu, Hawaii (United States).
- 1996 *Convenor:* 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 (United States).
- 1997 *Contributor:* Intergovernmental Panel on Climate Change, Office of United States Global Change Research Program, Washington, DC (United States).
- 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 (United States).
- 1996 *Invited Participant:* Earth System Science Education - Universities Space Research Association. BIOSPHERE II, Oracle, Arizona (United States).
- 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).
- 1996 *Invited Participant:* Spheres of Influence in Earth Systems Sciences Education - American Geophysical Union, Washington, DC (United States).
- 1996 *Invited Speaker:* Antarctic Cumulative Impacts - International Union for the Conservation of Nature, Washington, DC (United States).

- 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 *Invited Speaker:* Isotope geochemistry of mollusc shells in Antarctic coastal areas - (INVITED). Lamont-Doherty Earth Observatory, Columbia University, Palisades (United States).
- 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 *Invited Speaker:* Late Neogene Antarctic Glacial Fluctuations: Prospect Mesa Stratigraphy in Wright Valley Revisited. Pliocene Antarctic Glaciation Workshop, Woods Hole (United States).
- 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 (United States).
- 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 (United States).
- 1989 *Speaker:* Conservation of the Circumpolar Antarctic Scallop. 7th International Pectinid Workshop, Portland, Maine (United States).
- 1989 *Invited Speaker:* Research in the Antarctic. United States Coast Guard Academy, New London (United States).
- 1988 *Speaker:* Size thresholds of the Antarctic scallop. American Society of Zoologists, San Francisco (United States).
- 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 (United States).
- 1985 *Speaker:* Epizootic succession and community dynamics on the sea scallop *Placopecten magellanicus*, in the Gulf of Maine. Undersea Science Symposium, University of Connecticut, Avery Point (United States).
- 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 (United States).

1980 *Speaker:* Ecology of the Intertidal Isopod, *Idotea montereyensis*. Fifth Undergraduate Research Conference, Santa Clara (United States).