



*Curriculum Vitae for*  
**Bryan K. Mignone (page 2 of 5)**

May 2000 – **Research Assistant**, Climate, Energy & Development  
August 2000 The Worldwatch Institute, Washington, D.C.

July 1999 – **Research Analyst**, Applied Economics Practice  
April 2000 The Lewin Group, Falls Church, Virginia

**PUBLICATIONS AND PRESENTATIONS**

*Articles in refereed journals and reviewed monographs*

Fell, H., A. Paul and **B. K. Mignone**. Designing temporal flexibility mechanisms to manage speculative risk, manuscript in preparation.

**Mignone, B. K.** A decision-analytic framework for the determination of national climate policy goals, submitted for publication.

**Mignone, B. K.** Cost containment and the carbon market, submitted for publication.

**Mignone, B. K.** Prices in emissions permit markets: The role of investor foresight and capital durability, submitted for publication.

**Mignone, B. K.** A 'safety deposit' mechanism to contain the economic costs of US climate policy, forthcoming in *Climate Policy*.

**Mignone, B. K.**, M. D. Hurteau, Y. Chen and B. Sohngen. Carbon offsets, reversal risk and US climate policy, *Carbon Balance and Management* **4**, doi: 10.1186/1750-0680-4-3.

Marinov, I., A. Gnanadesikan, J. L. Sarmiento, J. R. Toggweiler, M. Follows and **B. K. Mignone**. Impact of oceanic circulation on biological carbon storage in the ocean and atmospheric pCO<sub>2</sub>, *Global Biogeochemical Cycles* **22**, GB3007, doi: 10.1029/2007GB002958, 2008.

**Mignone, B. K.**, R. H. Socolow, J. L. Sarmiento and M. Oppenheimer. Atmospheric stabilization and the timing of carbon mitigation, *Climatic Change* **88**, pp. 251-265, doi: 10.1007/s10584-007-9391-8, 2008.

**Mignone, B. K.** The national security dividend of global carbon mitigation, *Energy Policy* **35**, pp. 5403-5410, doi: 10.1016/j.enpol.2007.06.018, 2007.

Gnanadesikan, A., A. de Boer and **B. K. Mignone**. A simple theory of the pycnocline and overturning revisited, in *Ocean Circulation: Mechanisms and Impacts* (eds. A. Schmittner, J. Chiang and S. Hemmings), Geophysical Monograph Series **173**, doi: 10.1029/173GM04, 2007.

**Mignone, B. K.**, A. Gnanadesikan, J. L. Sarmiento and R. D. Slater. Central role of Southern Hemisphere winds and eddies in modulating the oceanic uptake of anthropogenic carbon, *Geophysical Research Letters* **33**, L01604, doi: 10.1029/2005GL024464, 2006.

Matsumoto, K. and **B. K. Mignone**. Model simulations of carbon sequestration in the northwest Pacific by direct injection, *Journal of Oceanography* **61**, pp. 747-760, 2005.

**Mignone, B. K.**, J. L. Sarmiento, R. D. Slater and A. Gnanadesikan. Sensitivity of sequestration efficiency to mixing processes in the global ocean, *Energy* **29**, pp. 1467-1478, 2004.

*Political commentary and popular writing*

**Mignone, B. K.** Carbon offsets and the emerging climate coalition, *The Hill*, July 9, 2009.

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**Mignone, B. K.** Carbon market conundrum: Building a better safety valve, *The Energy Daily*, March 26, 2009.

Antholis, W. and **B. K. Mignone**. How Obama should confront climate change, *Politico*, December 2, 2008.

**Mignone, B. K.** Drilling our way to the future, *The Hill*, September 24, 2008.

**Mignone, B. K.** Insuring the climate, *The Washington Times*, September 15, 2008.

**Mignone, B. K.** The art of un-legislating, *Earth*, September 2008.

**Mignone, B. K.** Design issues in climate policy: How cap-and-trade took center stage, *Geotimes*, April 2008.

**Mignone, B. K.** The new upside-down politics of climate protection, *Geotimes*, January 2008.

**Mignone, B. K.** International cooperation in a post-Kyoto world, *Current History*, November 2007.

**Mignone, B. K.** Parameters of energy security, *The Hill*, June 28, 2007.

Drapeau, M. D. and **B. K. Mignone**. Culture, conflict and... climate? *Science*, June 15, 2007.

**Mignone, B. K.** Climate, Bush and the G-8, *The Washington Times*, June 6, 2007.

**Mignone, B. K.** and M. D. Drapeau. Climate of subtle conflict, *The Washington Times*, April 22, 2007.

**Mignone, B. K.** Next climate change battle: the economy, *The Baltimore Sun*, February 13, 2007.

*Conference presentations (first-author only)*

**Mignone, B. K.** Managing prices in the future carbon market: What might climate policy learn from monetary policy? Oral presentation, *32nd Conference of the International Association for Energy Economics*, June 21-24, 2009, San Francisco, California.

**Mignone, B. K.** Developing a regulatory regime for carbon to simultaneously manage prices, quantities and costs. Oral presentation, *International Energy Workshop*, June 17-19, 2009, Venice, Italy.

**Mignone, B. K.** Using integrated quantitative methods to design legislative climate provisions. Poster presentation, *Annual Fall Meeting of the American Geophysical Union*, December 15-19, 2008, San Francisco, California.

**Mignone, B. K.** Oil dependence, climate change and energy security: Will constraints on oil shape our climate future or vice versa? Oral presentation (invited), *Annual Fall Meeting of the American Geophysical Union*, December 15-19, 2008, San Francisco, California.

**Mignone, B. K.** Carbon taxes, emissions caps or something else? Balancing price certainty and environmental integrity in regulatory approaches to greenhouse gas mitigation. Oral presentation, *28th Conference of the United States Association for Energy Economics*, December 3-5, 2008, New Orleans, Louisiana.

**Mignone, B. K.** Economic incentives for CCS in US climate policy: Is early deployment consistent with a low price on carbon? Oral presentation, *Seventh Annual Conference on Carbon Capture and Sequestration*, May 5-8, 2008, Pittsburgh, Pennsylvania.

**Mignone, B. K.** Technology, innovation and the economic costs of ambitious atmospheric stabilization: A modeler's view of the global carbon problem. Invited talk, *Annual Fall Meeting of the American Geophysical Union*, December 10-14, 2007, San Francisco, California.

**Mignone, B. K.** and R. H. Socolow. Toward an effective governance regime for geologic carbon storage. Poster presentation, *Annual Fall Meeting of the American Geophysical Union*, December 10-14, 2007, San Francisco, California.

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**Mignone, B. K.** Characterizing the energy security dividend of global carbon mitigation. Oral presentation, *International Energy Workshop*, June 25-27, 2007, Stanford University, Stanford, California.

**Mignone, B. K.** Modeling insights into the role of carbon capture and storage in policies to stabilize atmospheric carbon dioxide. Poster presentation, *Sixth Annual Conference on Carbon Capture and Sequestration*, May 7-10, 2007, Pittsburgh, Pennsylvania.

**Mignone, B. K.**, R. H. Socolow and J. L. Sarmiento. Leaky sequestration in the greenhouse: Lessons from a model of the global carbon cycle. Oral presentation, *Sixth Annual Conference on Carbon Capture and Sequestration*, May 7-10, 2007, Pittsburgh, Pennsylvania.

**Mignone, B. K.**, R. Socolow, J. L. Sarmiento and M. Oppenheimer. Atmospheric option value of carbon mitigation. Oral presentation, *Fifth Annual Conference on Carbon Capture and Sequestration*, May 8-11, 2006, Alexandria, Virginia.

**Mignone, B. K.**, A. Gnanadesikan, J. L. Sarmiento and R. D. Slater. The role of Southern Ocean winds and eddies in modulating the oceanic uptake and storage of anthropogenic carbon dioxide. Oral presentation, *Thirteenth AGU-ASLO-TOS Ocean Sciences Meeting*, February 20-24, 2006, Honolulu, Hawaii.

**Mignone, B. K.**, A. Gnanadesikan, J. L. Sarmiento and R. D. Slater. The role of Southern Hemisphere winds in controlling the oceanic uptake and storage of anthropogenic carbon dioxide. Poster presentation, *Seventh International Carbon Dioxide Conference*, September 25-30, 2005, Broomfield, Colorado.

**Mignone, B. K.**, J. L. Sarmiento, R. D. Slater and A. Gnanadesikan. Sensitivity of sequestration efficiency to mixing processes in the global ocean. Oral presentation, *Sixth International Conference on Greenhouse Gas Control Technologies*, October 1-4, 2002, Kyoto, Japan.

*Other Manuscripts*

**Mignone, B. K.** (editor). Designing a Cap-and-Trade System for the United States: Issues, Challenges and Tradeoffs. Washington, D.C.: The Brookings Institution, November 2009.

**Mignone, B. K.** Scientific and Political Economic Constraints on the Solution to the Global Warming Problem. Ph.D. Dissertation, Princeton University, June 2006.

**SERVICE, TEACHING AND SELECT ACTIVITIES**

2009	Reviewer for <i>Climatic Change Letters</i>
2009	Invited Panelist, <i>Carbon TradeEx America</i> , Washington, D.C.
2008	Reviewer for <i>Geophysical Research Letters</i> and <i>Proceedings of the National Academy of Sciences</i>
2008	Selected Participant, <i>4<sup>th</sup> Symposium of the Dissertation Initiative for the Advancement of Climate Change Research</i>
2008	Selected Participant, <i>8th Annual German Marshall Fund &amp; Bertelsmann Foundation Young Leaders Conference</i>
2008	Steering Committee Member, <i>Valuing Avoided Climate Change</i> , Pew Center on Global Climate Change
2008	Member, <i>Congressional Fellow Selection Committee</i> , American Meteorological Society
2008	Invited Panelist, <i>American Geophysical Union Congressional Visits Workshop</i> , Washington, D.C.
2007	Reviewer for <i>Geophysical Research Letters</i>
2007	Invited Panelist, <i>American Geophysical Union Legislative Affairs Workshop</i> , San Francisco, C.A.
2007	Invited Panelist, <i>American Meteorological Society Summer Policy Colloquium</i> , Washington, D.C.
2007	Mentor, EnvironMentors Program, National Council for Science and the Environment
2006	Reviewer for <i>Carbon Balance and Management</i>
2006	Programming Staff, Energy and Climate Working Group, Clinton Global Initiative
2005	Assistant-in-Instruction, <i>Climate Change: Scientific Basis, Policy Implications</i> , Princeton University
2005	Academic Advisor, Junior Project, Department of Computer Science, Princeton University
2003	Selected Participant, <i>First Intl. Summer School on Surface Ocean-Lower Atmosphere Study</i> , Cargese, France
2002	Selected Participant, <i>American Meteorological Society Summer Policy Colloquium</i> , Washington, D.C.
2002	Course Co-developer, <i>Climate Change: Scientific Basis, Policy Implications</i> , Princeton University
2000	Assistant-in-Instruction, <i>History of the Earth</i> , Department of Geosciences, Princeton University

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**FELLOWSHIPS AND AWARDS**

2008 Energy & Environment Fellowship, American Association for the Advancement of Science (declined)  
2007 William L. Fisher Congressional Science Fellowship, American Geological Institute  
2007 Diplomacy Fellowship, American Association for the Advancement of Science (declined)  
2006 MacArthur Science and Technology Fellowship, John D. and Catherine T. MacArthur Foundation  
2003 Arnold Guyot Teaching Award, Department of Geosciences, Princeton University  
2001 Fellowship in Science, Technology and Environmental Policy, Princeton Environmental Institute  
2001 Integrative Computer and Application Sciences Fellowship, National Science Foundation  
2000 Dusenbury and Hess Merit Prizes, Department of Geosciences, Princeton University

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

American Association for the Advancement of Science  
American Geophysical Union  
United States Association for Energy Economics  
International Association for Energy Economics

**MEDIA OUTREACH**

Variety of TV, radio and print media experience. Full list available upon request.