

**IAN SUE WING**

Assistant Professor

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*Professional Experience*

- 2002-present Assistant Professor, Boston University Department of Geography & Environment
- 2002-present Research Affiliate, Joint Program on the Science & Policy of Global Change, MIT
- 2001-2002 Postdoctoral Associate, Joint Program on the Science & Policy of Global Change, MIT
- 1997-2001 Research Assistant, Joint Program on the Science & Policy of Global Change, MIT
- 1995-1996 Research Assistant, Institute for Economics and Statistics, Oxford University

*Education*

- 1996-2001 Ph.D., Massachusetts Institute of Technology (Technology, Management & Policy)  
Dissertation: Induced Technical Change in CGE Models for Climate Policy Analysis
- 1994-96 M.Sc., Oxford University (Development Economics)  
Thesis: Determinants of Achievement in the Trinidad & Tobago Secondary School System
- 1993-94 Bachelor of Engineering, Thayer School of Engineering
- 1989-93 B.A., Dartmouth College (Major: Engineering Sciences; Minor: Environmental Studies)

*Scholarships and Fellowships*

- 1998-99 Martin Society Graduate Fellowship for Sustainability, MIT
- 1994-96 Commonwealth Caribbean Rhodes Scholarship, Oxford University

*Refereed Publications*

1. Adjustment Time, Capital Malleability, and Policy Cost, *The Energy Journal* Special Issue: The Costs of the Kyoto Protocol, A Multi-Model Evaluation: 3-92, May 1999 (with H.D. Jacoby).
2. Supplementarity: An Invitation to Monopsony? *The Energy Journal* 21(4): 29-59, October 2000 (with A.D. Ellerman).
3. Absolute vs. Intensity-Based Emission Limits, *Climate Policy*, forthcoming (with A.D. Ellerman).

*Non-Refereed Publications*

1. Primary Aluminum Production: Climate Policy, Emissions, and Costs, MIT Joint Program on the Science & Policy of Global Change Report No. 44, 1998 (with J. Harnisch, H.D. Jacoby, and R.G. Prinn).
2. Toward a Useful Architecture for Climate Change Negotiations, *Proceedings of the OECD Workshop on the Economic Modeling of Climate Change*, Paris, 17-18 September 1998 (with H.D. Jacoby and R. Schmalensee).
3. The MIT Emissions Prediction and Policy Analysis (EPPA) Model: Revisions, Sensitivities, and Comparison of Results, MIT Joint Program on the Science & Policy of Global Change Report No. 71, 2001 (with M.H. Babiker, J.M. Reilly, M. Mayer, R.S. Eckaus and R.C. Hyman).
4. The Energy Intensity of U.S. Production: Sources of Long-Run Change, *Proceedings of the 23<sup>rd</sup> IAEE North American Conference*, 2003 (with R.S. Eckaus).
5. Induced Technical Change and the Cost of Climate Policy, MIT Joint Program on the Science & Policy of Global Change Report No. 102, 2003 (submitted to *Resource and Energy Economics*).

*Other Publications and Editorials*

1. Coming to Terms... , in A. Garrod and J. Davis (eds.), *Crossing Customs: International Students Write on U.S. College Life and Culture*, Garland Studies in Higher Education No. 18., Falmer Press, New York: Taylor & Francis, 1999.

*Presentations and Invited Lectures*

1. Induced Technical Change in Climate Policy Models: The Stock of Knowledge Approach. Energy Modeling Forum Climate Change Impacts and Integrated Assessment Meeting, Snowmass CO, August 5-8, 2003.
2. Induced Technical Change and the Cost of Climate Policy. Colorado University Environmental and Resource Economics Workshop, Boulder CO, July 17-18, 2003.
3. Cost Reduction in Solar Photovoltaics: David vs. Goliath or Bambi vs. Godzilla? Hewlett Foundation Workshop on Learning-by-Doing in Energy Technologies, Resources for the Future, Washington, DC, June 17-18, 2003.
4. Induced Technical Change and the Cost of Climate Policy. Center for the Integrated Study of the Human Dimensions of Global Change, Carnegie Mellon University, Pittsburgh PA, March 7, 2003.
5. The Energy Intensity of U.S. Production: Sources of Long-Run Change. 5<sup>th</sup> USAEE/IAEE session of the Allied Social Sciences Association Meeting, Washington DC, January 4, 2003.
6. Climate Change: The Current Policy Landscape. Luncheon Meeting of the U.S. Association for Energy Economics New England Chapter, Cambridge MA, June 6, 2002.
7. Primary Aluminum Production: Projected Greenhouse Gas Emissions and the Costs of Climate Policy. 99<sup>th</sup> Annual Meeting of The Minerals, Metals and Materials Society, San Diego CA, March 3, 1999.

*Grants and Research Awards*

1. Representing Endogenous Technological Change in Climate Policy Models: General Equilibrium Approaches. U.S. Dept. of Energy Office of Science (BER), 2002-2005.

*Research in Progress*

- The accumulation and substitution of knowledge in dynamic general equilibrium economies
- Markets, technology characteristics and the succession of new energy technologies
- Trade-mediated international technology spillovers: implications for leakage of GHG emissions
- Emission trading with performance-based intertemporal targets (with J. Reilly)
- Intensity-based and absolute GHG emission targets: prospects for harmonization and emission trading under uncertainty (with A.D. Ellerman)
- Technology, substitution and the long-run change in U.S. energy intensity (with R.S. Eckaus)

*Refereeing*

1. The Energy Journal
2. Resource and Energy Economics
3. Journal of Applied Economics

*Teaching*

1. Environmental Policy Analysis, Boston University Dept. of Geography & Environment
2. U.S. Environmental Policy, Boston University Dept. of Geography & Environment
3. Climate Change Policy Modeling and Analysis, Boston University Dept. of Geography & Environment
4. Global Climate Change: Economics, Science and Policy, MIT

*Professional Affiliations*

- U.S. Association for Energy Economics
- Association of Environmental and Resource Economists
- American Economic Association