

Anthony Patt

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Academic and Professional Positions

International Institute for Applied Systems Analysis, Laxenburg, Austria. *Senior research scholar* (January 2010 – present); *Leader of Greenhouse Gas Initiative* (January – December 2010); *Leader of Decisions and Governance Research Group* (January 2007 - present); *Research scholar* (August 2006 – December 2009); *Visiting fellow* (January – March 1998).

Program in Global Change Ecology, University of Bayreuth, Germany. *Visiting lecturer* (December 2007 – present).

Department of Geography and Environment, Boston University, Massachusetts. *Research assistant professor* (September 2006 – August 2008); *Director of undergraduate studies* (September 2004 – August 2006); *Tenure track assistant professor* (September 2000 – August 2006).

Hanse Institute for Advanced Studies, Delmenhorst, Germany. *Visiting fellow* (August 2005).

Potsdam Institute for Climate Impact Research, Potsdam, Germany. *Visiting fellow* (June 2002 – August 2004).

Harvard University, Cambridge, Massachusetts. *Lecturer, Kennedy School of Government* (September 1999 – January 2000); *Doctoral research fellow, Belfer Center for Science and International Affairs* (September 1997 – June 2000); *Visiting researcher, Department of Earth and Planetary Sciences* (September 1998 – June 1999); *Research assistant, Belfer Center for Science and International Affairs* (June 1996 – May 1997).

Landworks, Middlebury, Vermont. *Environmental Planning and Policy Consultant* (June 1993 – February 1995)

Mad River Glen Ski Area, Waitsfield, Vermont. *Corporate Counsel* (October 1992 – March 1993).

Langrock Sperry & Wool, Middlebury and Burlington, Vermont. *Attorney at law* (September 1991 – September 1992).

Education

PhD, Public Policy, 2001
Harvard University, Cambridge, Massachusetts
Advisors: William Clark, Daniel Schrag, and Richard Zeckhauser

Master in Public Policy, 1997
Harvard University, Cambridge, Massachusetts

Juris Doctor, 1991
Duke University, Durham, North Carolina

Bachelor of Arts, Architecture and Landscape Design, 1987
Yale University, New Haven, Connecticut

Grants and
Consultancies

Effects of synoptic-scale weather patterns on solar electricity generation in Europe and the Mediterranean basin. Principal investigator on grant proposal submitted August 2011 to the Austrian Climate Research Program. Requested funding €142,505.

Meeting base and peak load power requirements with electricity generated from spatially distributed concentrating solar power plants utilizing thermal storage. Project partner on first-stage proposal submitted July 2011 to the German Federal Ministry for Education and Research. Requested funding: €398,570

Effects of synoptic-scale weather patterns on solar electricity generation in Europe and the Mediterranean basin. Principal investigator on grant proposal submitted June 2011 to the Austrian scientific funding agency. Requested funding €84,414.

Energy security in scenarios for Europe's future electricity supply. Project funded by the Smart Energy for Europe Platform, January 2011 – June 2012. Principal investigator with budget of € 39,300.

Analysis of recent European policies' consistency with 2050 decarbonization. Project funded by the Smart Energy for Europe Platform, January – April 2011. Principal investigator with budget of € 24,000.

CHANGES: Changing hydrometeorological risks – as analyzed by a new generation of European scientists (to be funded). Project funded as part of a Marie Curie training Network, January 2011 – August 2013. Project partner with a budget of €235,084.

MATRIX: New multi-hazard and multi-risk assessment methods for Europe. Project funded by the European Commission's Seventh Framework Programme, October 2010 – September 2012. Project partner and Work Package leader with budget of € 300,000.

Gender and natural resource management and environmental programming, Consultancy to provide support to a World Bank a baseline assessment for Kenya. April – June 2010. Share of project budget: ~ \$7,000.

Vulnerability of solar energy development to projected extreme climate events. Consultancy for the International Atomic Energy Agency to write and present a review paper on this topic, March – April 2010, €4,400.

MEDIATION: Methodology for Effective Decision-making on Impacts and Adaptation. Project funded by the European Commission Seventh Framework Programme, January 2010 – December 2012. Leader of two research tasks with a budget in excess of € 100,000 out of a total project budget of € 3,142,954.

RESPONSES: European responses to climate change: deep emissions reductions and mainstreaming of mitigation and adaptation. Project funded by the European Commission Seventh Framework Programme, January 2010 – December 2012. Participant in two research tasks with a budget in excess of € 75,000 out of a total project budget of € 3,149,708.

Linking MENA and offshore renewable resources to Europe: advancing policy-oriented discussions and drawing the political roadmap. Principal investigator of project funded by the European Climate Foundation. September 2009 – August 2010: € 198,701.

SafeLand: Living with landslide risk in Europe: Assessment, effects of global change, and management strategies. Funded by the European Commission Seventh Framework Programme, March 2009 – February 2012. Co-leader of work package: "Participatory stakeholder process for choosing appropriate mitigation/ prevention measures, including risk reduction targets", Task budget: ~ € 400,000 out of a total project budget of € 6,387,002.

Economics of Adaptation to Climate Change. Consultancy as leader of social analysis component

of Mozambique country study for the World Bank. February 2008 – July 2008. Share of project budget: ~ \$35,000.

Linking the MENA region's renewable resources to Europe: scientific workshop to advance policy-relevant knowledge. Co-leaders: Antonella Battaglini and Anthony Patt. Funding from the European Climate Foundation. October – December 2008: € 49,880.

Baseline assessment of climate change adaptation needs in Mozambique. Consultancy (with Patrick Nussbaumer) for the Mozambique National Institute for Disaster Management, funded by the Danish International Development Agency. May 2008 – December 2008. Share of project budget: \$30,726.

Small-scale farmers' understanding of insurance and risk spreading in Malawi and Ethiopia. Consultancy (with Pablo Suarez) for the World Food Programme and the International Fund for Agricultural Development. April 2008 – March 2009. Project budget: ~ \$45,000.

Alternative approaches to reducing small-holder farmer vulnerability in northern India and Nepal: a modeling study. Principal Investigators: Reinhard Mechler, Anthony Patt, and Wolfgang Lutz. An internally funded project of the Greenhouse Gas Initiative of the International Institute for Applied Systems Analysis, May 2008 – April 2009. Total project funding: € 80,000.

ADAM: Adaptation and Mitigation Strategies, Supporting European Climate Policy. Member of project steering group and leader of work package with seven team members, examining links between development assistance and climate policy goals of EU member states. March 2007 – February 2009. Work package budget: 570,000 € out of a total project budget of € 12 million.

ALICE: Akteurshandeln und langfristige Investitionsentscheidungen im Klimaschutz (Decision-makers' actions and long-term investment in the protection of climate). Principal Investigators: Bernd Siebenhüner, Anthony Patt, and Ottmar Edenhofer. Program on Economic Science for Sustainability of the German Federal Ministry of Education and Research. March 2007 – February 2010. Total project budget: € 589,864.

Private sector engagement in disaster risk reduction. Consultancy (with Joanne Linnerooth Bayer and Reinhard Mechler) for the UK Department for International Development. November – December 2006. Total project budget: € 9,375.

Assessing the Value of Climate Forecast Applications in Africa. Principal Investigator: Anthony Patt. United States National Oceanic and Atmospheric Administration Office of Global Programs. May 2006 – April 2007. Total project budget: \$68,682.

Biased Risk Perception as a Barrier to Successful Climate Adaptation in Africa. Consultancy (with Dagmar Schröter) for Institutions for Climate Change Adaptation in Africa program of the World Bank Development Research Group. April – December 2006. Total project budget: \$48,470.

Foundations, Rationales, and Representation of Human Economic Behaviour in Ecological Economics. Principal Investigator: Bernd Siebenhüner. Hanse Wissenschafts-Kolleg. August–October 2005. Amount of award to Anthony Patt: travel support, living allowance, and one month summer salary, ca. € 10,000.

Testing the Ability of Subsistence Farmers to Use Seasonal Climate Forecasts: A Participatory Approach in Zimbabwe. Principal Investigator: Anthony Patt. United States National Oceanic and Atmospheric Administration Office of Global Programs, Human Dimensions of Global Environmental Change Research Program. August 2002–July 2005, Total project budget: \$182,347.

Fellowship for Climate Change Vulnerability and Adaptation Research at the Potsdam Institute for Climate Impact Research. Principal Investigator: Anthony Patt. United States National Oceanic and Atmospheric Administration Office of Global Programs. May 2002–August 2004, Total

fellowship budget: \$148,836.

Harvard Graduate Student Council, Summer travel and research grant, Summer 1999, \$500.

Harvard University Program for the Study of Germany and Europe, Travel and research grant, Fall 1997, \$1,000.

Duke University School of Law, Merit Scholarship Recipient, 1988-91, \$20,000.

Publications:
Peer-Reviewed
Journal Articles

Drefus, Magali and Anthony Patt (in review). The European White Paper on Adaptation: does soft law make sense? Submitted May 2011 to *Mitigation and Adaptation Strategies for Global Change*.

Patt, Anthony, Raul Varela, Isilida Nhantumbo, and Carina Bachofen (in review). Does differential climate vulnerability exist at the household level? Submitted March 2011 as part of a special issue to *Climate and Development*.

Patt, Anthony, Stefan Pfenniger, and Johan Lilliestam (in review). Vulnerability of solar energy infrastructure and output to extreme events: climate change implications. Submitted March 2011 as part of a special issue to *Climatic Change*.

Nadejda Komendantova and Anthony Patt (in review). Employment creation under vertical and horizontal transfer of concentrated solar power technology to North African countries. Submitted December 2010 to *Energy Policy*.

Damm, Andrea, Katharina Eberhard, Jan Sendzimir, and Anthony Patt (in review). Perception of landslide risk and responsibility: a case study in Eastern Styria, Austria. Submitted October 2010 to *Natural Hazards*.

Lilliestam, Johan, Jeffrey Bielicki, and Anthony Patt (in review). Comparing carbon capture and storage (CCS) with concentrating solar power (CSP): potentials, costs, risks, and barriers. Submitted October 2010 to *Energy Policy*.

Sharma, Upasna and Anthony Patt (in second review). Disaster warning response: the effects of different types of personal experience. Revise manuscript submitted August 2011 to *Natural Hazards*.

Lilliestam, Johan, Antonella Battaglini, Charlotte Finlay, Daniel Fürstenwerth, Anthony Patt, Gus Schellekens, and Peter Schmidt (in second review). The alternative to a global climate deal is unfolding before our eyes. Revised manuscript submitted August 2011 to *Climate and Development*.

Fan, Lin, Catherine Norman, and Anthony Patt, (in second review). Electricity capacity investment under risk aversion: a case study of coal, gas, and concentrated solar power. Revised manuscript submitted May 2011 to *Energy Economics*.

Komendantova, Nadejda, Anthony Patt, and Keith Williges (in press). Solar power investment in North Africa: reducing perceived risks. Accepted August 2011 at *Renewable and Sustainable Energy Reviews*.

Patt, Anthony, Nadejda Komendantova, Antonella Battaglini, and Johan Lilliestam (in press). Regional integration to support full renewable power deployment for Europe by 2050. Revised manuscript accepted July 2011 at *Environmental Politics*.

Komendantova, Nadejda, Anthony Patt, Lucile Barras, and Antonella Battaglini (in press). Perception of risks in renewable energy projects: the case of concentrated solar power in North Africa. Published online December 2009 at *Energy Policy*.

Damerau, Kerstin, Keith Williges, Anthony Patt, and Paul Gauché (2011). Costs of reducing water use of concentrating solar power to sustainable levels: scenarios for North Africa. *Energy Policy* 39: 4391 – 4398.

Eakin, Hallie and Anthony Patt (2011). Are adaptation studies effective, and what can enhance their practical impact? *Wiley Interdisciplinary Reviews: Climate Change* 2: 141 – 153.

Williges, Keith, Johan Lilliestam, and Anthony Patt (2010). Making concentrated solar power competitive with coal: the costs of a European feed-in tariff. *Energy Policy* 38: 3089 – 3097.

Patt, Anthony, Detlef van Vuuren, Frans Berkhout, Asbjørn Aaheim, Andries Hof, Morna Isaac, and Reinhard Mechler (2010). Adaptation in integrated assessment modeling: where do we stand? *Climatic Change* 99: 383 – 402.

Patt, Anthony, Mark Tadross, Patrick Nussbaumer, Kwabena Asante, Marc Metzger, José Rafael, Anne Gujon, and Geoff Brundrit (2010). Estimating least developed countries' vulnerability to climate-related extreme events over the next 50 years. *Proceedings of the National Academy of Sciences of the United States of America* 107: 1333 – 1337.

Patt, Anthony, Pablo Suarez, and Ulrich Hess (2010). How much do smallholder farmers understand and want insurance? Evidence from Africa. *Global Environmental Change* 20: 153 – 161.

Patt, Anthony (2010). Effective regional energy governance—not global environmental governance—is what we need right now for climate change. *Global Environmental Change* 20: 33 – 35.

Patt, Anthony, Nicole Peterson, Michael Carter, Maria Velez, Ulrich Hess, and Pablo Suarez (2009). Making index insurance attractive to farmers. *Mitigation and Adaptation Strategies for Global Change* 14 (8): 737 – 753.

Patt, Anthony (2009). Beyond conventional thinking: mitigation and the real opportunities for developing countries. *Climate & Development* 1: 107 – 110.

Battaglini, Antonella, Johan Lilliestam, Armin Haas, and Anthony Patt (2009). Development of SuperSmart Grids for a more efficient utilization of electricity from renewable sources. *Journal of Cleaner Production* 17: 911 – 918.

Meze-Hausken, Elisabeth, Anthony Patt, and Steffen Fritz (2009). Reducing climate risk for micro-insurance providers in Africa: a simple crop insurance model for Ethiopia. *Global Environmental Change* 19: 66 – 73.

Patt, Anthony and Dagmar Schröter (2008). Perceptions of climate risk in Mozambique: implications for the success of adaptation and coping strategies. *Global Environmental Change* 18: 458 – 467.

Patt, Anthony, Laban Ogallo, and Molly Hellmuth (2007). Learning from 10 years of Climate Outlook Forums in Africa. *Science* 318: 49 – 50.

Patt, Anthony (2007). Assessing model-based and conflict-based uncertainty. *Global Environmental Change* 17: 37 – 46.

Patt, Anthony, Hannah Bowles, and David Cash (2006). Mechanisms for enhancing the credibility of an advisor: prepayment and aligned incentives. *Journal of Behavioral Decision Making* 19 (4): 347 – 359.

Cash, David, Jonathan Borck, and Anthony Patt (2006). Countering the loading-dock approach to linking science and decision making: comparative analysis of El Niño/Southern Oscillation (ENSO)

forecasting systems. *Science, Technology, & Human Values* 31: 465 – 494

Schröter, Dagmar, Colin Polsky, and Anthony Patt (2005). Assessing vulnerabilities to the effects of global change: an eight-step approach. *Mitigation and Adaptation Strategies for Global Change* 10: 573 – 579.

Patt, Anthony, Pablo Suarez, and Chiedza Gwata (2005). Effects of seasonal climate forecasts and participatory workshops among subsistence farmers in Zimbabwe. *Proceedings of the National Academy of Sciences of the United States of America* 102: 12623-12628.

Grothmann, Torsten and Anthony Patt (2005). Adaptive capacity and human cognition: the process of individual adaptation to climate change. *Global Environmental Change* 15(3): 199 – 213.

Patt, Anthony and Bernd Siebenhüner (2005). Agent based modeling and adaptation to climate change. *Vierteljahrshäfte zur Wirtschaftsforschung (Quarterly Journal of Economic Research)* 74(2): 310 – 320.

Patt, Anthony and Suraje Dessai (2005). Communicating uncertainty: lessons learned and suggestions for climate change assessment. *Comptes Rendus Geosciences* 337: 425 – 441.

Patt, Anthony, Richard J.T. Klein, and Anne de la Vega-Leinert (2005). Taking the uncertainties in climate change vulnerability assessment seriously. *Comptes Rendus Geosciences* 337: 411 – 424.

Foster, Charles H.W., Alice E. Ingerson, Anthony Patt, William A. Shutkin, Brian Donaghue, DeWitt John, and Marc K. Landy (2004). Implementing civic environmentalism: a model. *Renewable Resources Journal* 22(1): 11-18.

Suarez, Pablo and Anthony Patt (2004). Caution, cognition, and credibility: the risks of climate forecast application. *Risk, Decision and Policy* 9: 75-89.

Patt, Anthony and Daniel Schrag (2003). Using specific language to describe risk and probability. *Climatic Change* 61: 17-30.

Patt, Anthony and Chiedza Gwata (2002). Effective seasonal climate forecast applications: examining constraints for subsistence farmers in Zimbabwe. *Global Environmental Change* 12: 185-195.

Patt, Anthony (2001). Understanding uncertainty: forecasting seasonal climate for farmers in Zimbabwe. *Risk, Decision and Policy* 6: 105-119.

Patt, Anthony and Richard Zeckhauser (2000). Action bias and environmental decisions. *Journal of Risk and Uncertainty* 21(1): 45-72.

Patt, Anthony (1999). Separating analysis from politics: acid rain in Europe. *Policy Studies Review* 16(3/4):104–137.

Patt, Anthony (1999). Economists and ecologists: modeling global climate change to different conclusions. *International Journal of Sustainable Development* 2(2): 245–262.

Patt, Anthony (1999). Assessing extreme outcomes: the strategic treatment of low probability impacts in scientific assessment. *Risk, Decision and Policy* 4(1): 1–15.

Books and Book Chapters

Patt, Anthony (in preparation). Solving climate change with technology policy. Proposal accepted and contract signed September 2011 with *Cambridge University Press*, for manuscript completion July 2012.

Komendantova, Nadejda, and Anthony Patt (2011). Could corruption prove a barrier to roll-out of renewable energy in North Africa? In *Transparency International Global Corruption Report: Climate Change*. London: Earthscan, pp. 187 – 193.

Patt, Anthony, Diana Reckien, Richard J.T. Klein, Detlef van Vuuren, Markus Wrobel, Nico Bauer, Gunnar S. Eskeland and Tom Downing (2010). What can social science tell us about meeting the challenge of climate change: five insights from five years that might make a difference. In M. Hulme and H. Neufeld (eds.) *Making climate change work for us*. Cambridge UK: Cambridge University Press, pp. 369 – 388

Gupta, Joyeeta, Åsa Persson, Lennart Olsson, Joanne Bayer, Nicolien van der Grijp, Anne Jerneck, Richard J.T. Klein, Mike Thompson, and Anthony Patt (2010). Mainstreaming climate change in development cooperation policy: conditions for success. In M. Hulme and H. Neufeld (eds.) *Making climate change work for us*. Cambridge UK: Cambridge University Press, pp. 319 – 339.

Patt, Anthony, Angie Dazé, and Pablo Suarez (2009). Gender and climate change vulnerability: what's the problem, what's the solution? In M. Ruth and M. Ibarrarán (eds.), *The Distributional effects of climate change: social and economic implications*. Cheltenham, UK: Edward Elgar, pp. 82 – 102.

Suarez, Pablo, Jesse Ribot, and Anthony Patt (2009). The role of climate information in reducing vulnerability. In M. Ruth and M. Ibarrarán (eds.), *The Distributional effects of climate change: social and economic implications*. Cheltenham, UK: Edward Elgar, pp. 151 – 165.

Patt, Anthony (2009). Learning to crawl: how to use seasonal climate forecasts to build adaptive capacity. In N. Adger, I. Lorenzoni, and K. O'Brien (eds.) *Living with climate change: are there limits to adaptation?* Cambridge UK: Cambridge University Press, pp. 79 – 95

Patt, Anthony (2009). Communicating uncertainty to policy-makers. In P. Bavaye, J. Mysiak, and M. Laba (ed.), *Uncertainties in environmental modeling and consequences for policy making*. Dordrecht: Springer, pp. 231 – 251.

Patt, Anthony, Dagmar Schröter, Richard Klein, and A.C. de la Vega-Leinert (eds.) (2008). *Assessing Vulnerability to Global Environmental Change: Making information useful for adaptation policy and decision-making*. London: Earthscan.

Patt, Anthony, Dagmar Schröter, A.C. de la Vega-Leinert, and Richard Klein (2008). An introduction to the diversity of approaches to vulnerability research and assessment: common features and lessons learned. In A. Patt, Anthony, D. Schröter, R. Klein, and A. de la Vega-Leinert (eds.), *Assessing Vulnerability to Global Environmental Change: Making information useful for adaptation policy and decision-making*. London: Earthscan, pp. 1 – 26.

Winkler, Jordan, Anthony Patt, and Kabineh Konneh (2007). Knowledge for sustainable development: assessing a decade of African climate forecasting. In J. Griffiths, *Elements for Life*. London: Tudor Rose Publishing, pp. 156 – 157.

Patt, Anthony (2007). Evaluating the value of seasonal climate forecasts for subsistence farmers: lessons from NOAA applications research in Zimbabwe. In J. Griffiths, *Elements for Life*. London: Tudor Rose Publishing, pp. 179 – 181.

Patt, Anthony (2006). Trust, respect, patience, and sea surface temperatures: useful climate forecasting in Zimbabwe. In R. Mitchell, W. Clark, D. Cash, and N. Dickson (eds.), *Global environmental assessments: information, institutions, and influence*. Cambridge: MIT Press, pp. 241–269.

Patt, Anthony (2005). How do you assess extreme events? In A. Farrell and J. Jäger (eds.) *Assessments of Regional and Global Environmental Risks: Designing Processes for the Effective*

Use of Science in Decisionmaking. Washington, D.C.: Resources for the Future, pp. 119–137.

Foster, Charles, Marc Landy, Anthony Patt, DeWitt John, Brian Donahue, Alice Ingerson, and William Shutkin (2003). Civic Environmentalism. In R. Moore (Ed.) *Memos to the Governor: Management Advice from the Commonwealth's Experts in Public Administration and Policy*, pp. 42-57. Boston MA: American Society for Public Administration, Massachusetts Chapter.

Patt, Anthony and Richard Zeckhauser (2002). Behavioral perceptions and policies toward the environment. In R. Gowda and J. Fox (eds.), *Judgments, Decisions, and Public Policy*, Cambridge UK: Cambridge University Press, pp. 265–302.

Patt, Anthony (2001). Transboundary air pollution: lessons for useful analysis. In J. Linnerooth-Bayer, R. Löfstedt, and G. Sjoestedt (eds.), *Transboundary Risk Management*, London: Earthscan, pp. 91–120.

Patt, Anthony (2000). *Strategy and Psychology in Environmental Assessment*. Harvard University Graduate School of Arts and Sciences, PhD Thesis, Cambridge, Massachusetts, 137 pp.

Parson, Edward, Shardul Agrawala, Anthony Patt, Robert Keohane, Ronald Mitchell, Liliana Botcheva, William Clark, Elizabeth DeSombre, James McCarthy, and Eileen Shea (1997). Explaining the form of assessments: Why do we get the assessments we do? In *A Critical Evaluation of Global Environmental Assessments: The Climate Experience*, Washington DC: Center for the Application of Research on the Environment of the Institute of Global Environment and Society, pp. 49-78.

Working Papers and Reports

Schellekins, Gus, Charlotte Finlay, Antonella Battaglini, Johan Lilliestam, Daniel Fürstenwerth, Peter Schmidt, and Anthony Patt (2011). *Moving towards 100% renewable electricity in Europe and North Africa*. Policy report published by PricewaterhouseCoopers, with support from the Potsdam Institute for Climate Impact Research, the International Institute for Applied Systems Analysis, and the European Climate Forum. 78 pp.

Damm, Andrea, Katharina Eberhard, and Anthony Patt (2011). Risikowahrnehmung von Erdbeben: Ergebnisse einer empirischen Untersuchung in der Südoststeiermark (*Risk perception of landslides: results of an empirical study in southeast Styria*). International Institute for Applied Systems Analysis and the Wegener Zentrum für Klima und Globalen Wandel. 28 pp.

Patt, Anthony, Jochen Hinkel, and Rob Swart (2011). *Report on Uncertainty Methods*. Deliverable D4.1 for the MEDIATION Seventh Framework Project, submitted to the European Commission. 54 pp.

Reid, Gerard, Johan Lilliestam, Anthony Patt, Gus Schellekins, Catherine Mitchell, and Antonella Battaglini (2010). *A global renewables investment plan: scaling up investments in renewable energy technologies*. Published by the Government of India Ministry of New and Renewable Energy, and the German Federal Ministry for the Environment, Nature Conservancy, and Nuclear Safety, as a contribution to the Delhi International Renewable Energy Conference. 36 pp.

Patt, Anthony, and Stefan Pfenninger (2010). *Defining four integrative activities*. Deliverable D2.4 for the RESPONSES Seventh Framework Project, submitted to the European Commission. 11 pp.

Pfenninger, Stefan, Susanne Hanger, Magali Dreyfus, Anna Dubel, Nuria Hernandez-Mora, Paloma Esteve, Consuelo Varela-Ortega, Paul Watkiss, and Anthony Patt (2010). *Report on perceived policy needs and decision contexts*. Deliverable D1.1 for the MEDIATION Seventh Framework Project, submitted to the European Commission. 108 pp.

Patt, Anthony (2010). *Response to first draft questionnaire modules*. Report prepared as consultant to the World Bank to review proposed questionnaire related to gender mainstreaming for adaptation in Kenya. 10pp.

Patt, Anthony, Stefan Pfenninger, and Johan Lilliestam (2010). *Vulnerability of solar energy infrastructure and output to extreme events: climate change implications*. Paper prepared for the International Atomic Energy Agency as background material for a workshop held on the vulnerability of energy systems to climate change and extreme events, Trieste, Italy, April 2010.

Schellekens, Gus, Jo McDonnell, Antonella Battaglini, Johan Lilliestam, and Anthony Patt (2010). *100% renewable electricity: a roadmap to 2050 for Europe and North Africa*. Policy report published by PricewaterhouseCoopers, with support from the Potsdam Institute for Climate Impact Research, the International Institute for Applied Systems Analysis, and the European Climate Forum. 144 pp.

Patt, Anthony, Raul Varela, Isilda Nhandumbo, and Livia Bizikova (2010). *The Social Dimension of Adaptation to Climate Change in Mozambique*. World Bank Development and Climate Change Discussion Paper Number 16. 73 pp.

Patt, Anthony (2009). *Expanding solar energy in North Africa to achieve climate targets*. IIASA Policy Brief #7, International Institute for Applied Systems Analysis, Laxenburg, Austria. 4pp.

Hellmuth, M.E., D.E. Osgood, U. Hess, A. Moorhead, and H. Bhojwani, eds. (2009). *Index insurance and climate risk: prospects for development and disaster management*. Climate and Society No. 2, International Research Institute for Climate and Society (IRI), Columbia University, New York, USA. Contributing author.

Asante, K., R. Brito, G. Brundrit, P. Epstein, A. Fernandes, M.R. Marques, A. Mavume, M. Metzger, P. Nussbaumer, A. Patt, A. Queface, R. Sanchez del Valle, M Tadross, and A. Vilankulos (2009). *Study on the impact of climate change on disaster risk in Mozambique*. National Institute for Disaster Management, Maputo, Mozambique. 55 pp.

Patt, Anthony (2009). *Inception report: vulnerability and adaptation assessment and participatory scenario development for costing climate change adaptation in Mozambique*. Prepared pursuant to a consulting contract with the World Bank. 22 pp.

Patt, Anthony and Patrick Nussbaumer (2008). *Vulnerability to climate risks in Mozambique: exposure and sensitivity trends for the next 50 years*. Prepared pursuant to a consulting contract with the Mozambique National Institute for Disaster Management and the Government of Denmark, 71 pp.

Patt, Anthony, Antonella Battaglini, Nadejda Komendantova, and Johan Lilliestam (2008). *Linking North Africa's renewable energy resources to Europe: policy challenges*. Background paper for a scientific workshop held at the International Institute for Applied Systems Analysis, 24 – 26 November 2008. 37 pp.

Patt, Anthony, Micheal Carter, Ulrich Hess, Nicole Peterson, Alexander Pfaff, Pablo Suarez, and Maria Velez (2008). *Helping potential market participants understand index insurance: challenges and strategies*. Background paper for the workshop Technical Issues in Index Insurance, International Research Institute for Climate and Society.

Aaheim, Asbjørn, Frans Berkhout, Zbigniew Kundzewicz, Carlo Lavalle, Darryn McEvoy, Reinhard Mechler, Henry Neufeld, Anthony Patt, Paul Watkiss, Anita Wreford, Christian Egenhofer, Monica Alessi, and Arno Behrens (2007). *Why we will need adaptation and how it can be implemented*. Policy Brief of the ADAM Project and the Centre for European Policy Studies.

Patt, Anthony and Jordan Winkler (2007). *Applying climate information in Africa*. Consultancy report to the US National Oceanic and Atmospheric Administration.

Patt, Anthony and Dagmar Schröter (2007). *Biased risk perception and climate adaptation: a case study of Mozambique*. Consultancy report to the World Bank.

Bayer, Joanne, Reinhard Mechler, and Anthony Patt (2007). *Private sector engagement in disaster risk management*. Consultancy report to UK Department for International Development.

Polsky, Colin, Dagmar Schröter, Anthony Patt, Stuart Gaffin, Marybeth Long Martello, Rob Neff, Alex Pulsipher, and Henrik Selin (2003). *Assessing vulnerabilities to the effects of global change: an eight step approach*. Belfer Center for Science and International Affairs (BCSIA) Discussion Paper 2003-05. Cambridge: Environment and Natural Resources Program, Kennedy School of Government, Harvard University.

Patt, Anthony (2000). *Communicating Probabilistic Forecasts to Decision Makers: A Case Study of Zimbabwe*. Belfer Center for Science and International Affairs (BCSIA) Discussion Paper 2000-19. Cambridge: Environment and Natural Resources Program, Kennedy School of Government, Harvard University.

Patt, Anthony. (1998). *Analytic Frameworks and Politics: The Case of Acid Rain in Europe*. Belfer Center for Science and International Affairs (BCSIA) Discussion Paper E-98-20. Cambridge: Environment and Natural Resources Program, Kennedy School of Government, Harvard University.

Patt, Anthony (1997). *Assessing Extreme Outcomes: The Strategic Outcome of Low Probability Impacts of Climate Change*. Belfer Center for Science and International Affairs (BCSIA) Discussion Paper E-97-10. Cambridge: Environment and Natural Resources Program, Kennedy School of Government, Harvard University; also International Institute for Applied Systems Analysis Interim Report IR-97-037/August.

Book Reviews and Letters

Patt, Anthony (2009). Climate for caring. *New Scientist* 203(2725): 27. (Letter to the editor)

Patt, Anthony (2009). Climatic Cataclysm: The Foreign Policy and National Security Implications of Climate Change, edited by Kurt Campbell. Washington DC: Brookings, 2008. In *Global Environmental Politics*, Vol. 9 No. 2 (2009) pp. 129 – 131 (book review).

Complexity and Ecosystem Management: The Theory and Practice of Multi-Agent Systems, edited by Marco Janssen. Cheltenham UK: Edward Elgar, 2003. In *Ecological Economics*, Vol. 50 No. 3-4 (2004) pp. 321-322.

Climate Affairs: A Primer, by Michael Glantz. Washington DC: Island Press, 2003. In *Ecological Economics*, Vol. 48 No. 3 (2004) pp. 365-366.

Currents of Change: Impacts of El Niño and La Niña on Climate and Society (second edition), by Michael Glantz. Cambridge: Cambridge University Press, 2001. In: *The International Journal of African Historical Studies*, Vol.34 No. 1 (2001) pp. 173-174.

Global Environmental Change and International Law: Prospects for Progress in the Legal Order, by Lynne Jurgielewicz. Lanham MD: University Press of America, 1996. In: *The Law and Politics Book Review*, Vol. 7 No. 6 (June 1997) pp. 255-257.

Participation in Environmental Assessments

Intergovernmental Panel on Climate Change Fifth Assessment Report, Working Group II, Review Editor for Chapter 14.

Intergovernmental Panel on Climate Change Fifth Assessment Report, Working Group III, Lead Author for Chapter 2.

Intergovernmental Panel on Climate Change Fourth Assessment Report, Working Group II (2007), Chapter 2 Contributing Author, Expert Reviewer, and US Government Expert Reviewer.

Intergovernmental Panel on Climate Change Fourth Assessment Report, Working Group I (2007), Expert Reviewer and US Government Expert Reviewer.

State of the Carbon Cycle Report (2007), Contributing Author for material on communication and decision-support.

Intergovernmental Panel on Climate Change Third Assessment Report, Working Group II (2001). US Government Reviewer for material covering climate change impacts in Africa.

Media
Appearances and
Productions

Süddeutsche Zeitung (Munich) and a large number of online news sources, May and June 2011. News articles reporting on the findings of a report in progress made towards 100% renewables in Europe and North Africa.

Der Standard (Vienna), February 2011. Opinion article “Was wir vom ‘Fall Guttenberg’ lernen können” (What we can learn from the case of Guttenberg) published in commentary section, 26 February 2011, page 31.

Austrian National Broadcasting (ORF, FM4), April 2010. Radio interview recorded and broadcast on the findings of report on 100% renewable electricity for Europe and North Africa.

The Telegraph (London), *Die Presse* (Vienna) and multiple environment and business websites, March and April 2010. News articles reporting on the findings of report on 100% renewable electricity for Europe and North Africa.

Austrian National Broadcasting (ORF), *Der Standard* (Vienna), *SciDev.net*, January 2010. News articles presenting results of estimation of least developed countries’ vulnerability, as reported in Proceedings of the National Academy of Sciences.

The Independent (London), September 2009. Results on the potential for linking North African and European electricity networks to achieve greater renewable power penetration cited in “Johann Hari: Collapse or survive: the stark choice facing our species.” Commentary reprinted on multiple news websites worldwide.

Climate Thinkers Blog, July 2009. Editorial published on the Government of Denmark’s webpage for the United Nations Climate Change Conference, <http://cop15.dk>. Title of editorial: “Unlocking the climate change problem.”

Sunday Times (London), July 2009. Quotes from interview published in article on the potential for linking North African and European electricity networks to achieve greater renewable power penetration.

Deutschland Rundfunk (German Public Radio), June 2009. Interview broadcast and published online on the potential for linking North African and European electricity networks to achieve greater renewable power penetration.

The Times (London), *Guardian*, *Daily Telegraph*, *Scientific American*, and others, March 2009. Conference presentation and interview published on the potential for linking North African and European electricity networks to achieve greater renewable power penetration.

Der Standard (Vienna), October 2007. Interview published on barriers to climate change adaptation in Africa.

Associated Press and *Boston University Today*, February 2007. Full interview published in *Boston University Today*, with pieces distributed by *Associated Press* and published in numerous United States newspapers, on the findings of the Intergovernmental Panel on Climate Change Working Group I Fourth Assessment Report.

Associated Press, *New York Times*, *Washington Post*, *Los Angeles Times* and others, August 2005. Research findings “Effects of seasonal climate forecasts and participatory workshops

among subsistence farmers in Zimbabwe” reported on in short articles.

BBC World Service, Science in Action, London, August 2005. Invited radio show guest to discuss research findings “Effects of seasonal climate forecasts and participatory workshops among subsistence farmers in Zimbabwe.”

Talking about the Weather: A Seasonal Climate Forecasting Workshop in Zimbabwe (2004). A seven-minute video production documenting the use of seasonal climate forecasts by subsistence farmers. Produced by Anthony Patt (filmed by Dagmar Schröter and Julia Jaeger) for use by the National Oceanic and Atmospheric Administration’s Human Dimensions of Global Environmental Change Program.

Süd-West-Radio Forum (South West Germany Public Radio Forum), Mainz, Germany, May 2004. Invited talk show panelist on the theme: “Horror im Treibhaus: Was sucht der Klimawandel auf der Kino-Leinwand?” (Horror in the greenhouse: what’s climate change doing on the silver screen?) concerning the treatment of climate change in the Hollywood film “The Day After Tomorrow”.

Review and Editorial Positions

Senior Editor, *Climate and Development*, an Earthscan journal, 2008 – present

Editorial Board Member, *Global Environmental Change*, an Elsevier journal, 2006 – present

Senior Editor, *Regional Environmental Change*, a Springer journal, 2005 – present

Ad hoc Manuscript Peer Reviewer. *Energy Policy*; *Oxford University Press*; *Global Environmental Change*; *Climatic Change*; *Ecological Economics*; *Bulletin of the American Meteorological Society*; *Environmental Management*; *Mitigation and Adaptation Strategies for Global Change*; *Geosciences*; *Agricultural Systems*; *Science and Public Policy*; *Australian Journal of Agricultural Research*; *Area*; *Journal of Applied Meteorology and Climatology*; *International Journal of Global Warming*; *Environmental Science and Policy*; *Wiley Interdisciplinary Reviews of Climate Change*; *Regional Environmental Change*; *Climate and Development*.

Ad hoc Grant Proposal Peer Reviewer. US National Oceanic and Atmospheric Administration; US National Science Foundation; Natural Sciences and Engineering Research Council of Canada; UK National Environmental Research Council; UK Economic and Social Research Council; Finnish National Academy of Sciences; Swiss National Science Foundation; European Commission DG Research; Research Council of Norway; European Research Council.

Ad Hoc Performance and Promotion Reviewer. University of Sussex.

Abstract Reviewer, 2002 and 2007 Berlin Conferences on the Human Dimensions of Global Environmental Change, German Political Science Association.

Invited Lectures and Presentations

Young Scientist Summer Program summer lecture series, International Institute for Applied Systems Analysis, Laxenburg, Austria, August 2011. Presentation: “Applying systems analysis for climate governance.”

Sustainability lecture series, University of Life Science, Vienna, May 2011. Presentation: “Beyond Kyoto: solving climate change without a carbon tax, global treaty, or change in lifestyles.”

Climate System Analysis Group Seminar Series, University of Cape Town, South Africa, January 2011. Presentation: “Perspectives on climate change adaptation.”

NCCR Climate Summer School, Grindelwald, Switzerland, August 2010. Presentation: “Responding to climate change and variability.”

Department of Geography, Ludwig-Maximilian University, Munich, June 2010. Seminar presentation: "Climate change and development."

NICE Spring School on improving our communication about climate change science, impact, and adaptation, Giens, France, June 2010. Presentation: "Communicating uncertain science of global change to policy-makers."

Institute for Development Studies, University of Sussex, United Kingdom, May 2010. Seminar presentation: "Climate change and development."

Alternet Summer School, Peyresq, France, September 2009. Presentation: "Communicating the science of global change to policy makers."

SENSE Summer School on Global Change Modeling, University of Wageningen, Netherlands, September 2009. Presentation: "Communicating uncertainty of global change."

Alternet Summer School, Peyresq, France, September 2008. Presentation: "Social science insights on ecosystem services."

Concord Academy, Concord, Massachusetts, June 2008. Presentation: "Climate change and renewable energy."

Institute of Geography, University of Berne, Berne, Switzerland, April 2008. Presentation: "Decision-making, environmental policy, and economic geography."

Adapting community risk and vulnerability analyses for climate change (AdaptCRVA) project kickoff conference, Trondheim, Norway, January 2008. Presentation: "Risk perception and communication."

NATO Advanced Studies Institute on Uncertainty in Environmental Modeling, Vrsar, Croatia, October 2007. Presentation: "Communicating uncertainty as consensus or conflict."

Alternet Summer School, Peyresq, France, September 2007. Presentation: "Communicating to policy-makers."

NCCR Climate Summer School, Grindelwald, Switzerland, August 2007. Presentation: "Reducing vulnerability to climate change and variability."

IIASA Young Scientists Summer Program Lecture Series, Laxenburg, Austria, June 2007. Presentation (with Reinhard Mechler): "Are adaptation and mitigation complements or substitutes, and why should you care?"

SENSE Summer School on Global Change Modeling, University of Wageningen, Netherlands, May 2007. Presentation: "Communicating Uncertainty of Global Change."

Symposium on IIASA and South African Research, Pretoria, April 2007. Presentation: Climate Risk Management: Case Studies from Southern Africa.

Red Cross of Mozambique National Headquarters, Maputo, September 2006. Presentation: Mudanças Climáticas em Moçambique (Climate Change in Mozambique, presentation in English and Portuguese).

University of Edinburgh, School of GeoSciences, Edinburgh, April 2006. Presentation: "Research on rural vulnerability to climate change: a focus on decision-making."

University of Zurich Department of Geography, Zurich, March 2006. Presentation: "Saisonale Klimavorhersagen und nachhaltige Entwicklung: Ergebnisse eines Pilotprojektes in Simbabwe"

(Seasonal climate prediction and sustainable development: results from a pilot project in Zimbabwe, presentation in German).

Centre for International Climate and Environmental Research, Oslo, March 2006. Presentation: "Communication strategies to assist rural adaptation to climate change."

Eidgenössische Technische Hochschule Zürich (Swiss Federal Institute of Technology), Zurich, August 2005. Presentation: "Effects of seasonal climate forecasts among subsistence farmers in Zimbabwe."

Hanse Wissenschaftskolleg Seminar Series, Delmenhorst, Germany, August 2005. Presentation: "Effects of seasonal climate forecasts among subsistence farmers in Zimbabwe."

International Research Institute for Climate Prediction, Roundtable seminar series, New York, July 2005. Presentation: "Measuring the value of climate forecasts to subsistence farmers."

Center for Research in Environmental Decision-Making, Columbia University, New York, July 2005. Presentation: "Aligned incentives, accountability, and the use of expert advice."

Kennedy School of Government Behavioral Economics Research Seminar, Cambridge, Massachusetts, April 2005. Presentation: "Aligned incentives, accountability, and the use of expert advice."

Clark University Department of Geography, Worcester, Massachusetts, February 2005. Presentation to masters' level seminar on risk and hazards. Presentation: "Learning from behavioral economics for risk and hazards theory."

University of Connecticut Department of Geography, Storrs, Connecticut, November 2004. Presentation: "Measuring use of climate information by subsistence farmers."

School for Field Studies, South Caicos Island, Turks and Caicos Islands, October 2004. Presentation: "Measuring use of climate information by subsistence farmers."

Democrats Abroad Berlin Chapter, Berlin, Germany, May 2004. Invited speaker to American Ex-Patriot Community. Presentation: "United States Environmental Policy under George W. Bush?"

University of Potsdam Seminar Series on Vulnerability Assessment, Potsdam, Germany, May 2004. Invited speaker in seminar series. Presentation: "Economic Analysis in Vulnerability Assessment" (Presentation in German).

United States Pony Club National Youth Congress, Philadelphia, January 2004. Presentation: "Managing life choices with risk and uncertainty."

Potsdam Institute for Climate Impact Research EVA Seminar Series, Potsdam, Germany, November 2003. Presentation: "Trust me: the effect of economic incentives on advisors' credibility."

Harvard University Center for International Development, Cambridge, October 2003. Seminar discussant: "Evolution of the Climate Outlook Forum Process."

Lange Nacht der Wissenschaften, Jahr der Wissenschaft Potsdam 2003, Potsdam, Germany, June 2003. Presentation: "El Niño, Simbabwe, und die Nutzung von Klimavorhersagen im Entscheidungsprozess von Bauern." (El Niño, Zimbabwe, and farmers' use of climate forecasts in the decision-making process, presentation in German)

Swiss Federal Institute for Environmental Science and Technology, Zürich, Switzerland, February 2003. Presentation: "Present-biased behavior, resource use, and agent-based modeling."

Sustainable Asset Management, Zürich, Switzerland, February 2003. Presentation: "Behavioral economic predictors of unsustainable investment."

K.E.R.N. Project Research Group, Christian Albrecht Universität, Kiel, Germany, November 2002. Presentation: "Agent-based modeling of adaptive capacity."

National Oceanic and Atmospheric Administration Office of Global Programs, Silver Spring, Maryland, USA, October 2002. Presentation: "Adapting to Climate Change in an Imperfect World."

National Institute for Public Health and the Environment, Bilthoven, The Netherlands, September 2002. Presentation: "Adapting to Climate Variability."

Potsdam Institute for Climate Impact Research PIRSIQ Seminar Series, Potsdam, Germany, August 2002. Presentation: "Translating Language and Numbers to Describe Climate Change Risks."

Potsdam Institute for Climate Impact Research EVA Seminar Series, Potsdam, Germany, August 2002. Presentation: "Assessing and Communicating Drought Vulnerability in Rural Zimbabwe."

Boston University Graduate Program in African Studies, Boston, March 2002. Presentation: "Field Research Methods in Africa: Examining the Usefulness of Seasonal Forecasts in Zimbabwe."

Johns Hopkins University Center for Talented Youth: Explorations in Environmental Science and Policy, Boston, November 2001. Panel participant: "After college, career options in the environment."

Boston University First Year Student Outreach Project Orientation, Boston, August 2001. Presentation: "Worrying about the environment."

Boston University Center for Energy and Environmental Studies Faculty Lecture Series, Boston. April 2001. Presentation: "Seasonal forecasting in Zimbabwe."

Boston University African Studies Center Rodney Lecture, Boston, March 2001. Presentation: "Can African farmers use seasonal climate forecasts?"

Designing Effective Assessments, Copenhagen, March 2001. Invited participant in workshop organized by the European Environmental Agency and the Global Environmental Assessment Project at Harvard University.

Harvard University and Massachusetts Institute of Technology Civic Environmentalism Roundtable Lecture Series, Cambridge, Massachusetts, February 2001. Discussant for topic: "Civic Environmentalism and the Pursuit of Sustainable Communities."

WebNoize Venture Forum, New York, September 2000. Presentation: "Investor Psyche: Decision Making Pathologies for Digital Music Investors"

Kennedy School of Government Environmental Economics Seminar Series, Cambridge, Massachusetts, February 2000. Presentation: "Impact demonstration bias."

Princeton University Program in Science, Technology, and Public Policy Seminar Series, Princeton, New Jersey. April 1999. Presentation: "Decision-making biases for environmental policy"

Conferences and Workshops

Getting real: concrete thinking on an integrated methodology and common platform, Samerberg, Germany, September 2011. Organizer of three day workshop to guide methodological and empirical research on adaptation within the MEDIATION project.

Intergovernmental Panel on Climate Change Working Group III, Fifth Assessment Report Lead Authors' meeting, Changwon City, Korea, July 2011.

Hartwell House II workshop on climate policy, Buckinghamshire, England, April 2011. Participant and facilitator of discussion group on climate adaptation policy.

IIASA Regional Workshop, Cape Town, South Africa, January 2011. Presentation: "Risk, governance, and climate change."

Mainstreaming disaster risk reduction into development strategies, Ahmedabad, India, January 2011. Workshop hosted by the Sardar Patel Institute of Economic and Social Research. Presentation: Enhancing climate change adaptive capacity."

Bonn Symposium 2010: New sources of energy, new conflicts? Bonn, Germany, December 2010. Workshop sponsored by the Development and Peace Foundation. Presentation: "European power grid requirements for renewable energy."

Living in a low carbon society, Brussels, Belgium, November 2010. Workshop sponsored by Atomium Culture. Member of working group on the economics of decarbonization.

Workshop on CCIVA uncertainties, workshop sponsored by CIRCLE 2 Project, Stockholm, November 2010. Presentation: "Measuring the effects of communicating climate change uncertainty."

Renewable energy in North Africa: a policy roadmap for 2050, Hammamet, Tunisia, June 2010. Co-organizer of joint IIASA – WWF workshop.

Vienna Business School Futures Conference, Eisenstadt, Austria, May 2010. Participant in panel discussion on green markets.

Joint ICTP-IAEA workshop on the vulnerability of energy systems to climate change and extreme events, Trieste, Italy, April 2010. Keynote presentation: "Solar energy: vulnerability to extreme events."

Transforming the energy system: investment risks and policy challenges, Potsdam, Germany, March 2010. Co-organizer of conference and presenter of one of three introductory keynote presentation to initiate discussion.

Strategic Choices for Renewable Energy Investment, St. Gallen, Switzerland, February 2010. Presentation: "Perceived risk associated with solar power investment in North Africa, the ways to reduce it, and the benefits of doing so" (with N. Komendantova).

Workshop on governance for energy transitions, Lund, Sweden, December 2009. Workshop sponsored by the University of Lund and Atomium Culture. Member of working group on policies for grid development and integration.

Participatory Scenario Development, Maputo, Mozambique, August 2009. Co-organizer of workshop as part of the World Bank's Economics of Adaptation to Climate Change study. Presentation at workshop: "Impacts of climate change in Mozambique."

Participatory Scenario Development, Xai Xai, Mozambique, July 2009. Co-organizer of workshop as part of the World Bank's Economics of Adaptation to Climate Change study. Presentation at workshop: "Impacts of climate change on Mozambique."

Global Environmental Change and Human Security Synthesis Conference, Oslo, June 2009. Plenary panel presentation on human security and policy, chair of parallel session Limits to Adaptation, with presentation: "Adaptation decision support: in search of clumsy solutions."

Participatory Scenario Development Workshop, Accra, Ghana, June 2009. Guest facilitator in workshop organized as part of the World Bank's Economics of Adaptation to Climate Change study.

Living with climate futures: beyond limits to adaptation towards transformations in practice, Oxford, June 2009. Workshop co-organized by Environmental Change Institute Oxford, Stockholm Resilience Centre, Reading University, and the Walker Institute. Discussant for session on missing resources for transformations.

International Human Dimensions Programme Open Meeting, Bonn, April 2009. Presentation: "When do least developed countries most need international financial assistance for climate change adaptation?"

Super Grid and Concentrated Solar Power Options: Finance Workshop, London, April 2009. Workshop organized by PriceWaterhouseCoopers and the Carbon Markets Industry Association. Presentation: "Risk? What risk."

International Scientific Congress on Climate Change, Copenhagen, March 2009. Co-chair of conference session on "Measuring adaptation to climate change," poster presentation (with Patrick Nussbaumer) on "Climate vulnerability in Mozambique: scenarios to 2060," and oral presentation on "Importing power from the desert: if it's such a great idea, why aren't we doing it already?"

14th Conference of the Parties to the United Nations Framework Convention on Climate Change, Poznan, Poland, December 2008. Side event on the comparability of mitigation efforts in Annex I countries, presentation: "Comparison of mitigation efforts: access to more information."

Linking North Africa's Renewable Energy Resources to Europe: Policy Challenges, International Institute for Applied Systems Analysis, Laxenburg, Austria, November 2008. Co-organizer of workshop with 30 participants, editor of background paper, facilitator for breakout group and plenary discussion.

Technical Issues in Index Insurance, International Research Institute for Climate and Society, Columbia University, New York, October 2008. Leader of chapter writing team and presenter: "Helping potential market participants understand index insurance: challenges and strategies."

Tällberg Forum, Tällberg, Sweden, June 2008. Invited participant in Forum, and contributor to "redesigning workshop" on a Zero Carbon Energy System.

German-Italian Cooperation for the Development of Renewable Energies in the Mediterranean, Berlin, March 2008. Invited participant to workshop on overcoming barriers to the generation and transport of electricity between the Middle East, North Africa, and Europe.

Living with climate change: are there limits to adaptation? Royal Geographical Society, London, February 2008. Presentation: "Should we spend adaptation funds to improve the use of seasonal climate forecasts, and if so, how?"

Wirtschaftswissenschaften für Nachhaltigkeit (Economics for Sustainability), German Federal Ministry for Education and Research, Bonn, December 2007. Leader of sub-workshop on synthesis research on innovation and sustainability.

IIASA 35th Anniversary Conference, Vienna, November 2007. Plenary presentation: "Managing climate risks for security and development."

Risk 07, Lower Austrian Civil Protection Agency, Tulln, Austria, November 2007. Keynote presentation: "Klimawandelrisiko Kommunizieren" (Communication climate change risk, presentation in German).

Why we will need adaptation and how can it be implemented, Centre for European Policy Studies,

Brussels, October 2007. Invited participant and co-author of background paper.

Strategien zur gemeinsamen institutionellen Forschung in den Alpen (“Strategies for collaborative institutional research in the Alps”), Igls, Austria, September 2007. Invited participant in workshop to identify funding strategies for joint Austrian / Swiss alpine research funding.

United Nations Framework Convention on Climate Change workshop on adaptation planning and practices under the Nairobi work programme on impacts, vulnerability, and adaptation to climate change, Rome, September 2007. Capacity building breakout group facilitator and rapporteur.

ADAM / DG Env workshop on European climate strategies, Brussels, June 2007. Presentation: “4 ADAM adaptation activities, 4 provocative concepts on adaptation, and 3 question for DG Env.”

The Role of Mountains in a Climate of Change, Obergurgl, Austria, May 2007. Invited participant and working group leader in workshop by the University of Innsbruck and the Austrian Federal Ministry for Research.

19th Climate Outlook Forum for the Greater Horn of Africa, Nairobi, March 2007. Presentation: “Assessment of climate information applications in Africa.”

Task Force on Assessing Costs and Benefits of Climate Change Mitigation and Adaptation, Bilthoven, Netherlands, February 2007. Participant in initial meeting and workshop of task force. Presentation: “4 brief thoughts on adaptation costs.”

Local Impacts of Climate Change, Leibnitz, Austria, January 2007. Invited participants and working group leader in workshop by the Wegener Centre for Climate Research (University of Graz) and the Austrian Federal Ministry for Research.

Catalyzing Change in the Energy Sector, Santa Fe, January 2007. Invited participant in workshop organized by Santa Fe Institute and National Renewable Energy Laboratory.

Fifth Development and Adaptation Days, Nairobi, November 2006. Presentation: “Applying meteorological data and climate forecasts to decision-making.” European Union Side Event on Mitigation and Adaptation, 12th Conference of the Parties to the United Nations Framework Convention on Climate Change, Nairobi, November 2006. Presentation: “Financing catastrophic risk, developing a climate safety net, and managing impacts of climate variability.”

10th Southern African Regional Climate Outlook Forum, Gaborone, Botswana, September 2006. Presentation: “NOAA Assessment of Climate Forecast Applications in Africa.” Users’ working group roundtable discussion organizer and leader.

18th Climate Outlook Forum for the Greater Horn of Africa, Nairobi, August – September 2006. Presentation: “Assessment and analysis of climate forecast applications research in Africa.”

Junior Faculty Forum, National Center for Atmospheric Research, Boulder, Colorado, August 2006. Presentation: “Communicating uncertainty.”

9th Seasonal Climate Outlook Forum and its Applications in West Africa, Niamey, Niger, May 2006. Presentation: “Assessment and analysis of climate forecast applications research in Africa.” Working group leader.

Adaptação as Mudanças Climáticas e Gestão de Desastres (Adaptation to Climate Change and Disaster Management), a workshop sponsored by the Red Cross of Mozambique, the Red Cross / Red Crescent Climate Centre, and the World Bank Development Economics Research Group, Maputo, Mozambique, May 2006. Co-organizer of workshop, facilitator, and presenter of introductory remarks: “Adaptação ao clima e desenvolvimento: desafios e oportunidades para a Cruz Vermelha e outras organizações” (Climate adaptation and development: challenges and opportunities for the Red Cross and other organizations).

Climate Change, Upwelling, Fisheries, and Coastal Communities, a workshop sponsored by the International Centre for Theoretical Physics and the International Institute for Applied Systems Analysis, Trieste, Italy, March 2006. Presentation: "Design of early warning communication strategies to reduce vulnerability."

Foundations, Rationales, and Representation of Human Economic Behaviour in Ecological Economics Research Workshop, Hanse Wissenschaftskolleg, Delmenhorst, Germany, October 2005. Presentation: "Driving down mitigation costs with induced innovation and carbon sequestration: behavioral constraints for an empirical investigation."

Sixth Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn, October 2005. Presentation: "Sources of climate change uncertainty and differential responses to assessed likelihood."

Foundations, Rationales, and Representation of Human Economic Behaviour in Ecological Economics Research Workshop, Hanse Wissenschaftskolleg, Delmenhorst, Germany, September 2005. Presentation: "First you gotta believe: multiple equilibrium and the role of expectations on induced technological change for greenhouse gas mitigation" (with Ottmar Edenhofer)

Annual International Meeting of the Economic Sciences Association, Montréal. June 2005. Presentation: "Aligned incentives, accountability, and the use of expert advice." Discussant for paper: "Do people in developing countries listen to the West too much (or too little): evidence from an experiment with Thai students."

Coping with Uncertainty, Laxenburg, Austria. December 2004. Conference convened at the International Institute for Applied Systems Analysis. Presentation "Communicating probabilities with numbers and words: pitfalls and biases."

Utrecht University Copernicus Institute for Sustainable Development and Innovation, Utrecht, Netherlands. December 2004. Expert meeting on uncertainty communication. Presentation: "Issues with the IPCC Uncertainty Scale."

Climate Forecast Applications Workshop, International Union for the Conservation of Nature Southern African Office, Harare, Zimbabwe, September 2004. Co-organizer of workshop on the application of seasonal climate forecasts to agricultural decision-making. Presentation: "Observed value of seasonal climate forecasts among subsistence farmers, 2000–04."

Workshops on El Niño, Climate Prediction, and Farming Decisions, Mhakwe and Tiya, Zimbabwe, September 2004. Organizer and facilitator for workshops relating seasonal climate forecasts to local decision-making.

Southern African Regional Climate Outlook Forum, Harare, Zimbabwe, September 2004. Invited presentation: "Observed value of seasonal climate forecasts among subsistence farmers, 2000– 04."

Second International Conference on Climate Impact Assessment, Grainau, Germany, June 2004. Panel session member on "Vulnerability and sustainability." Paper presented: "The value of seasonal climate forecasts for subsistence farmers: recent empirical findings."

Environmental Vulnerability Assessment Stocktaking and Scoping Workshop, Potsdam, Germany, May 2004. Co-organizer of scoping workshop for an edited book on vulnerability research and assessment.

Intergovernmental Panel on Climate Change Workshop on Describing Scientific Uncertainty in Climate Change to Support Analysis of Risk and Options, Maynooth, Ireland, May 2004. Experts' meeting to support cross cutting theme on uncertainty in the IPCC Fourth Assessment Report. Presentation: "Communicating probabilities with words: potential pitfalls and biases."

Foundations, Rationales, and Representations of Human Economic Behavior, Delmenhorst, Germany, April 2004. Startup workshop for the research group "Theories and applications of ecological economics", Universität Oldenburg. Presentation: "Behavioral economics and modeling."

Ninth Conference of the Parties to the United Nations Framework Convention on Climate Change, Milan, December 2003. Member of delegation from the Potsdam Institute for Climate Impact Research; participant in the Research and Independent Non-Governmental Organization body.

Insights and Tools for Adaptation: Learning from Climate Variability, Washington DC, November 2003. Meeting convened by the National Oceanic and Atmospheric Administration. Background paper prepared: "Communication for Adaptation: Participation and Institutions."

Fifth Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Montréal, October 2003. Paper presented: "Trusting Information." Panel session organizer and chair: "Adaptive Capacity: Toward a Useful Theory."

Workshops on El Niño, Climate Prediction, and Farming Decisions, Mahkwe, Tiya, Mafa, and Mkoka, Zimbabwe, September 2003. Organizer and facilitator for workshops relating seasonal climate forecasts to local decision-making.

Southern African Regional Climate Outlook Forum, Lusaka, Zambia, September 2003. Presentations: "Climate forecasts, scientific information, and subsistence farming"; "Interpreting Tercile Forecasts". Session rapporteur.

Association of American Geographers, 2003 Annual Meeting, New Orleans, March 2003. Presentation: "Building relationships of trust in forecast communication: lessons from Zimbabwe."

2002 TOPIK Days, Potsdam Institute for Climate Impact Research, Potsdam, Germany, December 2002. Presentation: "Magenta: Modeling Agents' Adaptation."

Berlin Conference on the Human Dimensions of Global Environmental Change, Berlin, December 2002. Presentation: "Too Much Caution? Forecast Communication in Zimbabwe." Session moderator.

Expert Workshop on Climate Change and the Financial Sector, Cologne, Germany, November 2002. Invited participant.

Human Dimensions of Global Change Principal Investigators Meeting, Seabrook Island, South Carolina, USA, October 2002. Presentation: "Participatory Forecast Application Pilot Project." Session moderator.

Vulnerability Methods and Models Workshop, Cambridge, Massachusetts, USA, October 2002. Co-organizer, rapporteur, and presenter: "Agent Based Analysis of Adaptive Capacity."

Workshops on El Niño, Climate Prediction, and Farming Decisions, Mahkwe, Tiya, Mafa, and Mkoka, Zimbabwe, September 2002. Organizer and facilitator for workshops relating seasonal climate forecasts to local decision-making.

Southern African Regional Climate Outlook Forum, Harare, Zimbabwe, September 2002. Invited participant.

Multi Agent Modeling of Adaptation Vision Factory, Potsdam, Germany, August 2002. Workshop organizer and presenter of project proposal.

Integrated Disaster Risk Management Conference, Laxenburg, Austria, July 2002. Presentations: "Responding to Climate Induced Risks in Zimbabwe" and "Assessing and Communicating

Probabilities Associated with Climate Change.” Session rapporteur.

2001 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Rio de Janeiro, October 2001. Paper presented: “Climate forecasting for fun and profit in Zimbabwe.”

Workshops on El Niño, Climate Prediction, and Farming Decisions, Mahkwe, Tiya, Mafa, and Mkoka, Zimbabwe, September 2001. Organizer and facilitator for workshops relating seasonal climate forecasts to local decision-making.

Workshops on El Niño, Climate Prediction, and Farming Decisions, Chimanimani, Mafa, and Mkoko, Zimbabwe, October 2000. Organizer and facilitator for workshops relating seasonal climate forecasts to local decision-making.

American Economics Association Annual Meeting, Boston, January 2000. Paper presented: “Impact demonstration bias and environmental decisions”

Southern African Regional Climate Outlook Forum, Maputo, Mozambique, September 1999. Work presented: “Cross-scale risk perception and scientific credibility”

Conference on Environmental Risk, Oxford, U.K., June 1999. Session moderator. Paper presented: “Human perception of environmental change”

Association for Public Policy Administration and Management, New York, October 1998. Papers presented: “Behavioral perceptions and policies toward the environment” and “Economic analysis of European acidification regulation”

Summer Institute in Behavioral Economics, Center for Advanced Behavioral Studies, Stanford University, July 1998. Russell Sage Foundation fully funded participant National Center for Environmental Decision-Making Research, Knoxville, May 1998. Facilitator for workshop reviewing the Ozone Transport Assessment Group. Paper presented: “Separating economic analysis from politics: a case study of European acid rain”

European Society for Ecological Economics, Geneva, March 1998. Paper presented: “Economists and ecologists: different frames of reference for global climate change”

Young Scientist Summer Program, International Institute for Applied Systems Analysis, Laxenburg, Austria. Summer 1997. Fully funded participant.

Courses Taught

Global Change Policy, Contracts, and Administrative Strategies, University of Bayreuth, winter terms, 2007–8, 2008–9; summer terms 2010, 2011.

Directed Study: Geospatial Time Series Analysis to Apply Seasonal Climate Information to Water Management in the Tana River of Kenya (graduate), Boston University, spring semester, 2007.

Physical Principles of the Environment: Climate Change (graduate), Boston University, fall semester 2005.

Introduction to Quantitative Environmental Modeling (undergraduate), Boston University, fall semesters 2004, 2005.

United States Environmental Policy (undergraduate), Boston University, spring semesters 2001, 2002, 2005, 2006.

Ecological Economics (undergraduate), Boston University, spring semester 2001.

Risk Analysis, Communication, and Management (renamed Natural Hazards, Environment, and

Human Decision Making) (graduate and undergraduate), Boston University, spring semesters 2002, 2005.

Environmental Policy Analysis and Modeling (graduate and undergraduate), Boston University, fall semesters 2000, 2001.

Analytic Frameworks for Policy (graduate), Harvard University, fall semester 1998–99.

Advising and
Supervision

Architesh Panda, PhD student at the Institute for Social and Economic Change, Bangalore. Summer 2011. Co-supervision (with Upasna Sharma) on statistical testing of differential household level vulnerability and adaptive capacity for climate change.

Taufeeq Dhansay, MSc. student at the University of Cape Town. Summer 2011. Supervision on the development of an economic forecasting model for geothermal power in South Africa.

Arame Tall, PhD student at the Johns Hopkins University. Summer 2010. Supervision on the application of seasonal climate forecasts to disaster management in Africa.

Dr. Magali Dreyfus, post-doctoral research scholar in the MEDIATION project. February 2010 – July 2010. Supervision on the legal aspects of integrating adaptation into national and sub-national policies in Europe.

Susanne Hanger, pre-doctoral research assistant in the RESPONSES and MEDIATION projects. January 2010 – present. Supervision on research on sectoral climate change adaptation and mitigation policies in Europe.

Stefan Pfenninger, pre-doctoral research assistant in the RESPONSES and MEDIATION projects. January 2010 – present. Supervision on research on sectoral climate change adaptation and mitigation policies in Europe.

Kerstin Damerau, PhD candidate, Vienna University of Life and Applied Sciences, October 2009 – present. Supervisor research on sustainable development in North Africa in the context of large scale renewable energy investment.

Dr. Upasna Sharma, post-doctoral research funded by the IIASA Directorate, October 2009 – present. Advising research on risk communication strategies for climate change adaptation.

Andrea Damm and Katharina Eberhard, University of Graz, July 2009 – November 2009. Supervisor of two students at the University of Graz, pursuant to a short-term contract under the SafeLands project, to conduct a case study on decision-making and governance in the context of landslide hazards in the district of Feldbach, Steiermark.

Lin Fan, PhD candidate, Johns Hopkins University, Summer 2009. Supervisor for participation in the IIASA Young Scientist Summer Program and the research and writing of the paper “Effects of technological and policy uncertainty and risk aversion on renewable energy investment.”

Johan Lilliestam, PhD candidate, University of Potsdam, January 2009 – present. Second supervisor on PhD on renewable energy and electricity transmission policy development in Europe.

Dr. Jason Blackstock, post-doctoral research funded by the IIASA Directorate, November 2008 – June 2009. Advising research into the political and decision-making frameworks for geoengineering approaches to climate change.

Keith Williges, pre-doctoral research assistant in the ALICE project, July 2008 – October 2009. Supervising the development of a model to estimate cost scenarios for the scaling up of renewable energy in Europe, in a format relevant for decision-makers.

Dr. Nadejda Komendatova, post-doctoral researcher in the ALICE project, April 2008 – present. Supervisor for research on decision-making in the financing of concentrated solar power projects and transmission lines connecting Europe with North Africa.

Patrick Nussbaumer, PhD candidate, Autonomous University of Barcelona, December 2007 – April 2010. Supervisor for research on the effects of official development assistance and the Clean Development Mechanism on renewable energy investment, with funding from the ADAM and ALICE projects.

Tyler Felgenhauer, PhD candidate, University of North Carolina, Summer 2007. Supervisor for participation in the IIASA Young Scientist Summer Program and the research and writing of the paper “Optimal paths of climate change mitigation and adaptation under certainty and uncertainty.”

Elisabeth Meze-Hausken, PhD candidate, University of Bergen, Summer 2007. Supervisor for participation in the IIASA Young Scientist Summer Program and the research and writing of the paper “Reducing climate risk for micro-insurance providers in Africa: a case study of Ethiopia.”

James Baldwin, Boston University, February 2006 – May 2008. Committee member for PhD thesis on the determinants and carbon consequences of migration within the United States.

Florence Nazarre, University of Witwatersrand, South Africa, Summer 2004. Advised as part of the START capacity building program of the United States Agency for International Development.

Pablo Suarez, Boston University, January 2001 – June 2005. Supervised PhD completed April 2005. Title: Decision-making for reducing vulnerability given new climate predictions: case studies from Metro Boston and rural Zimbabwe.

Robert Munson, Boston University, March 2004 – May 2005. Committee member for PhD completed March 2005. Title: Mountain Islands in the Savanna: Kilimanjaro, Meru, and the Landscape of German Colonialism.

Masters students advised: John McLaughlin, Boston University (Spring Semester 2005, MA completed May 2005), Elizabeth Sommers, Boston University (Fall Semester 2004, MA completed May 2005).

Advisor for Reading and Research in Disaster Risk Management (graduate), Boston University, spring semester 2001.

Advisor for Independent Study in Quantitative Environmental Modeling (graduate), Boston University, fall semester 2004.

Advisor for Undergraduate Work for Distinction Advisor (undergraduate), Boston University, spring semesters 2001, 2002, 2005, 2006; fall semesters 2004, 2005.

University,
Institute, and
Community
Service

Member of Internet and Finance Software Committees, International Institute for Applied Systems Analysis, October 2010 – present.

Member of Internal Research Committee, International Institute for Applied Systems Analysis, January 2010 – January 2011.

Vice Chair of Employees’ Council, International Institute for Applied Systems Analysis, January – December 2008.

Risk and Vulnerability Programme Management Team, International Institute for Applied Systems Analysis, Fall 2006 – present. Responsible for department web site development and seminar series.

Director of Undergraduate Studies, Boston University Department of Geography and Environment, Fall 2004 – spring 2006. Administration of four undergraduate degree programs, requiring weekly student advising, curricula review and development, approval of student petitions, and coordination with other departments.

Liaison to School for Field Studies, Boston University Department of Geography and Environment, Fall 2004 –spring 2006. Point of contact for environmental science and policy study abroad program sponsored by Boston University. Reviewed programs in Turks & Caicos Islands and Costa Rica, including site visits, interviews with students and staff, and meetings to discuss opportunities for curricula improvement in the social sciences.

Ad hoc committee to explore study abroad, Boston University Department of Geography and Environment, Fall 2001. Prepared memorandum for department exploring potential of study abroad options for undergraduate geography majors.

Curriculum review committee, Boston University Center for Energy and Environmental Studies, Fall 2001 – Spring 2003.

Member of Board of Directors, Addison County Community Action Group, Vermont. Director of local non-profit provider of poverty relief, affordable housing, and community agriculture. 1991–95.

Languages Native speaker of English; fluent in German; limited ability in French, Italian, Spanish, and Portuguese.

Hobbies Outdoor sports; woodworking.

Personal Data Born: 18 August 1965, in Boston, Massachusetts.
Citizenship: United States of America.
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