

SUZI C. KERR

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Nationality: New Zealand

PRESENT POSITIONS

Visiting Professor, Economics Department, Stanford University
Senior Research Associate, Program in Energy and Sustainable Development, Stanford University
Senior Fellow, Motu Economic and Public Policy Research, New Zealand

EDUCATION

Ph.D., Economics, Harvard University, 1995
A.M., Economics, Harvard University, 1995
B.Sc. honours(first class), Economics, University of Canterbury, 1987

PREVIOUS POSITIONS

Director and Senior Fellow, Motu Economic and Public Policy Research Trust,
November 1998 - May 2009
Visiting Scholar, MIT Center for Energy and Environmental Policy and Research and
Joint Program on the Science and Policy of Global Change, Jan – August 2001
Visiting Researcher, Resources for the Future, Washington DC, June – October 1998
Research consultant for Center for Clean Air Policy, Washington DC. September 1998 –
January 2000
Visiting Researcher, Victoria University of Wellington, Jan. – May 1998
Subcontractor, Resources for the Future – Research on International Emissions Trading,
June – August 1997
Assistant Professor, Department of Agricultural and Resource Economics, University of
Maryland, College Park, August 1995 – August 1998
Analyst on Housing and Social Policy, The New Zealand Treasury, 1988 - 1990

MEMBERSHIP OF BOARDS AND TRUSTS

Member of New Zealand Association of Economists Council, 2007 - 2009
Founding Trustee, Hikurangi Trust. From 2007
Founding Trustee, Motu Research and Education Foundation, 2007 – 2009
Member of government convened Climate Change Leadership Forum, 2007 - 2008.
Leader of Cluster Group B.
Member of He Waka Tangata, Social Science Leadership group established by the
Ministry of Research Science and Technology, 2007 - 2009

Member of Scientific Steering Committee of the Analysis, Integration and Modeling of the Earth Systems' project under the International Geosphere/Biosphere Programme (IGBP) from March 2005 and the Global Land Project under the IGBP and International Human Dimensions Project (IHDP) December 2005 - 2007.

Member of European Environment Agency and Directorate General for Environment of the European Commission 'High-level network of leading economists'. From May 2004

Member of inaugural advisory board for the Victoria University Centre for Marine Environmental and Economic Research (2004-2005)

Founding Trustee, Motu Economic and Public Policy Research Trust

PUBLICATIONS AND RESEARCH

1 Journal Articles

'Nutrient Trading in Lake Rotorua: Overview of a Prototype System' (with Kelly Lock) *Resource Management Theory and Practice*, 2009

'Inclusion of Agriculture in a Domestic Emissions Trading Scheme: New Zealand's Experience to Date' (with Andrew Sweet) *Farm Policy Journal* 5(4), November, 2008

'Restoring forests through carbon farming on Maori land in New Zealand/Aotearoa' (with Jason Funk) *Mountain Research and Development* 27 (3) August, 2007

'Will buying tropical forest carbon benefit the poor? Evidence from Costa Rica' (with Alexander Pfaff, Leslie Lipper, Romina Cavatassi, Benjamin Davis, Joanna Hendy, G. Arturo Sanchez-Azofeifa) *Land Use Policy* 24 600–610, 2007

'The Housing Fulcrum: Balancing Economic and Social Factors in Housing Research and Policy' (with Arthur Grimes, Andrew Aitken and Robert Sourell) *Kotuitui*, New Zealand, 2006

'Rating Systems in New Zealand: An Empirical Investigation into Local Choice' (with McLuskey, William, Andrew Aitken, Arthur Grimes, Suzi Kerr & Jason Timmins) *Journal of Real Estate Literature* 14(3), 2006

'Fishing Quota Markets' (with Richard G. Newell and James N. Sanchirico) *Journal of Environmental Economics and Management* Vol. 49 pp. 437-462, 2005

'Efficient contracts for carbon credits from reforestation projects' *New Zealand Science Review* 61(1). 2004

'Motu, Excellence in Economic Research and the challenges of 'Human Dimensions' research' Science and Technology Policy edition of *Science Review*, the Journal of the New Zealand Association of Scientists Vol. 60 (2-3), 2003 (Previous version is Motu Working paper 2003-05)

'Carbon dynamics and land-use choices: building a regional-scale multidisciplinary model' (with Shuguang Liu, Alexander Pfaff and R. Flint Hughes) *Journal of Environmental Management* Volume 69, Issue 1, September 2003 , Pages 25-37 (Previous version is Motu Working Paper 2003-06)

'Policy-Induced Technology Adoption: Evidence from the U.S Lead Phasedown' (with Richard Newell) *Journal of Industrial Economics*. Vol. LI, No. 3, 2003 (Previous version is Resources for the Future Discussion Paper 01-14)

- ‘Tradeable carbon permit auctions: How and why to auction not grandfather’ (with Peter Cramton) *Energy Policy* 30 pp: 333-345, 2002 (previous version is Resources for the Future Discussion Paper 98-34)
- ‘A Case Study of Costa Rican Lucc: Carbon Sequestration Supply from and Clean Development Mechanism Rules for Tropical Forest Carbon Sinks’ (with Alexander Pfaff and Arturo Sanchez) *Lucc Newsletter*, May 2001, No. 6
- ‘The Kyoto Protocol & Payments for Tropical Forest: An Interdisciplinary Method for Estimating Carbon-Offset Supply and Increasing the Feasibility of a Carbon Market under the CDM’ (with Alexander S.P. Pfaff, R. Flint Hughes, Shuguang Liu, G. Arturo Sanchez-Azofeifa, David Schimel, Joseph Tosi and Vicente Watson) *Ecological Economics* 35(2):203-221, 2000 (Previous version is Columbia University Department of Economics Working Paper Series, No. 9899-08)
- ‘Using Emissions Trading to Regulate US Greenhouse Gas Emissions: An Overview of Policy Design and Implementation Issues’ (with Carolyn Fischer and Michael Toman) *National Tax Journal* LI No. 3 September, 1998
- ‘Devolution and the Resource Management Act’ *Victoria Economic Commentary*. 15(2): November, pp.11-26, 1998
- ‘A case study for devolution: The problem of preserving kiwi habitat in the Far North’(with Megan Claridge) *Victoria Economic Commentary*. 15(2): November, pp. 27–36, 1998
- ‘Who trades tradeable permits?’ (with David Maré) *Victoria Economic Papers*, September, 1996
- ‘Environmental Aid’ *Environment* January/February 1997 39(1) (Heldref Publications: Washington DC)

2 Books and Monographs

- Global Emissions Trading: Key Issues for Industrialized Countries edited volume
Edward Elgar: Glos. UK, 2000. Chapters by Kerr,
Introduction: Trading Toward a Stable Climate
Fair Competition and Annex I Trading
Additional Compliance Issues Arising from Trading
An International Tracking System for Greenhouse Gas Trading
Market Power and Annex I Trading
Treaty Compliance as background for an effective trading program (with Tim Hargrave, Ned Helme, and Tim Denne)
Domestic Greenhouse Regulation and International Emissions Trading
The Way Forward? Design Principles for Annex B Trading
The Private Residential Rental Market in New Zealand (with John Savage and Stephen Toplis) New Zealand Institute of Economic Research, Research Monograph No. 50, 1989

3 Book Chapters

- ‘Improving Lake Water Quality through a Nutrient Trading System: The Case of New Zealand’s Lake Rotorua’ (with Kelly Lock) in proceedings from ‘New Zealand tax reform - where to next?’ conference, Edward Elgar, forthcoming

- ‘Greenhouse gases and Nutrients: The Interactions Between Concurrent New Zealand Trading Systems’ (with Marianna Kennedy) in Productivity Commission eds. *Promoting Better Environmental Outcomes, Roundtable Proceedings*, Australian Productivity Commission, Melbourne, 2009
- ‘Effects of Poverty on Deforestation: distinguishing behavior from location’ (with A. Pfaff, R. Cavatassi, B. Davis, L. Lipper, A. Sanchez and J. Timmins) in *Economics of poverty, the environment and natural resource use*. Eds Rob B. Dellink and Arjan Ruijs, Wageningen University, Environmental Economics and Natural Resources Group. 2008
- ‘Evaluating the New Zealand Individual Transferable Quota Market for Fisheries Management’ (with Richard G. Newell, and James N. Sanchirico) in *Tradeable Permits: policy evaluation, design and reform* ed. OECD, Paris, 2004. (previous version is Motu Working paper 03-02)
- ‘Joint implementation in climate change policy’ (with Catherine Leining) in Tom Tietenberg and Henk Folmer eds. *The International Yearbook of Environmental and Resource Economics 2003/04*, 2004 (previous version is Motu Working Paper 03-04)
- ‘The Causes and Consequences of Air Pollution in Santiago’ (with Matthew Kahn) in Edward L. Glaeser and John R. Meyer *Chile: Political Economy of Urban Development* Harvard Studies in International Development, John F. Kennedy School of Government, Harvard University, 2002
- ‘A Regulatory History of New Zealand’s Quota Management System: setting targets, defining and allocating quota’ (with Gina Straker and Joanna Hendy) *Papers and Proceedings of the IIFET Conference 2002*.
- ‘An Empirical Analysis of New Zealand’s ITQ Markets’ (with Richard G. Newell and James N. Sanchirico) *Papers and Proceedings of the IIFET Conference 2002*.
- ‘Deciding the Eligibility of Land Use, Land-Use Change and Forestry Projects under the CDM: Negotiation Issues Post COP6’ (with Catherine Leining) in Raymond Saner, Sergio Jauregui, Lichia Yiu eds. *Bolivian Environmental Conflict Management Cases and CC + CDM Sectoral Preparations for Kyoto Protocol Negotiations*, 2001
- ‘Enforcing Compliance: the Allocation of Liability in International GHG Emissions Trading and the Clean Development Mechanism’ in Michael A. Toman, Editor, *Climate Change Economics and Policy: An RFF Anthology*, RFF, Washington DC, 2001
- ‘Using Emissions Trading to Regulate National Greenhouse Gas Emissions’ (with Carolyn Fischer and Michael A. Toman) in Michael A. Toman, Editor, *Climate Change Economics and Policy: An RFF Anthology*, RFF, Washington DC, 2001
- ‘The Dynamics of Deforestation and the Supply of Carbon Sequestration: Illustrative Results from Costa Rica’ (with Alexander Pfaff and Arturo Sanchez) in Theodore Panayotou ed. *Environment for Growth: Environmental Management for Sustainability and Competitiveness in Central America*. Harvard Studies in International Development, Harvard University Press pp. 409 – 431, 2001
- ‘How Can Carbon Sequestration in Tropical Forests be Rewarded? Evidence from Costa Rica’ (with Alexander Pfaff, Arturo Sanchez and Marco Boscolo) in Theodore Panayotou ed. *Environment for Growth: Environmental Management for*

- Sustainability and Competitiveness in Central America*. Harvard Studies in International Development, Harvard University Press pp. 371 – 408, 2001 (previous version is Development Discussion Paper # 675 Harvard Institute of International Development)
- ‘The Distributional Effects of Carbon Regulation: Why auctioned carbon permits are attractive and feasible’ (with Peter Cramton) *The Market and the Environment* ed. Thomas Sterner in International Studies in Environmental Policy Making Series (Edward Elgar Publishing: Glos, UK), 1999
- ‘The Clean Development Mechanism, Tropical Carbon Sinks and Biodiversity: An economics/ecology model for predicting policy effects and evaluating policy options’ (with Alexander Pfaff, Arturo Sanchez, David Schimel, Joseph Tosi and Vicente Watson) *Papers and Proceedings of the 1998 Global Biodiversity Forum*, Buenos Aires
- ‘The Operation of Tradeable Rights Markets: Empirical Evidence from the United States Lead Phasedown’ Papers and Proceedings of the Air and Waste Management Association meeting "New Partnerships: Economic Incentives for Environmental Management" November 3-4 1993, Rochester, New York.
- ‘Relative Poverty and Welfare Distribution’ in *The Welfare State: Foundations and Alternatives* ed. Michael James (The Centre for Independent Studies: 1989)

4 Reports and Working Papers

- ‘Auctioning Greenhouse Gas Emissions Permits in Australia,’ (with Regina Betz, Stefan Seifert and Peter Cramton) Papers of Peter Cramton 09aghg, University of Maryland, Department of Economics - Peter Cramton, revised 2009.
- ‘Greenhouse gases and Nutrients: The Interactions Between Concurrent New Zealand Trading Systems’ (with Marianna Kennedy) Motu note 09-02, 2009.
- ‘Allocation of New Zealand Units within Agriculture’ (with Wei Zhang) Report to MAF, January, 2009
- ‘Competition for land between biofuels, pastoral agriculture and scrub lands,’ (with Maribeth Todd and Wei Zhang) in *Bioenergy options for New Zealand: analysis of large-scale bioenergy from forestry*. Eds. Peter Hall and Michael Jack. Scion Report. pp. 122-40, 2009
- ‘Nature and Scale of Eligible Post-1989 Non-planted Forests’ (with James D. Shephard, M. Anne Sutherland, Ian Payton, Wei Zhang and William Power) Landcare Research Contract Report prepared for MAF, October, 2008
- ‘Nutrient Trading in Lake Rotorua: Choosing the Scope of a Nutrient Trading System,’ (with Kelly Lock) Motu Working Paper 08-05, 2008
- ‘Inclusion of Agriculture and Forestry in a Domestic Emissions Trading System: New Zealand's Experience to Date,’ (with Andrew Sweet) Motu Working Paper 08-04, 2008
- ‘Nutrient Trading in Lake Rotorua: Determining Net Nutrient Inputs,’ (with Kit Rutherford) Motu Working Paper 08-03, 2008
- ‘Nutrient Trading in Lake Rotorua: Overview of a Prototype System,’ (with Kelly Lock) Motu Working Paper 08-02, 2008
- ‘Nutrient Trading in Lake Rotorua: Social, Cultural, Economic and Environmental Issues around a Nutrient Trading System,’ (with Kelly Lock) Motu Manuscript, 2008

- "Costs and Benefits of Climate Change and Adaptation to Climate Change in New Zealand Agriculture: What Do We Know so Far?" (with David Wratt, Brett Mullan, Andrew Tait, Ross Woods, Troy Baisden, Donna Giltrap, Kelly Lock, Joanna Hendy, Adolf Stroombergen and Alek Stojanovik) Contract report by EcoClimate Consortium: Integrated Research on the Economics of Climate Change Impacts Adaptation and Mitigation, Wellington, Ministry of Agriculture and Forestry, 2008
- 'Nutrient Trading in Lake Rotorua: Goals and Trading Caps,' (with Kit Rutherford and Kelly Lock) Motu Working Paper 07-08, 2007
- 'Cluster B Meeting Minutes from 22 May and associated papers'
<http://www.climatechange.govt.nz/nz-solutions/climate-change-leaders-forum/cluster-b-report-2008-06.shtml>, 2008
- 'Economic Regrets' (with Andrew Coleman) Motu manuscript written for Cluster B of the Climate Change Leadership Forum, 22 May, 2008
- 'Climate Change Leadership Forum: Cluster B - Meetings 2 and 3' Climate Change Leadership Forum, Auckland, December. <http://www.climatechange.govt.nz/nz-solutions/climate-change-leaders-forum/cluster-b-leadership-forum.shtml>, 2007
- 'Review of proposed New Zealand Emissions Trading Scheme,' Report commissioned by the Emissions Trading Group, 2007
- 'Emissions Trading in New Zealand: Introduction and Context,' (with Murray Ward) paper prepared for New Zealand Climate Change Policy Dialogue, 20 September. www.motu.org.nz
- 'Emissions Trading in New Zealand: Options for Addressing Trade Exposure and Emissions Leakage,' (with Suzie Greenhalgh and Jim Sinner) paper prepared for New Zealand Climate Change Policy Dialogue, 21 September. www.motu.org.nz
- 'Emissions Trading in New Zealand: Points of Obligation,' (with John Small) paper prepared for New Zealand Climate Change Policy Dialogue, 24 September, 2007 www.motu.org.nz
- 'Emissions Trading in New Zealand: Managing Economic Risk in the New Zealand Emissions Trading System,' paper prepared for New Zealand Climate Change Policy Dialogue, 25 September, 2007 www.motu.org.nz
- 'Emissions Trading in New Zealand: Transition and Evolution,' (with Ralph Chapman) paper prepared for New Zealand Climate Change Policy Dialogue, 25 September, 2007 www.motu.org.nz
- 'Nutrient Trading in Rotorua; Where Are We Now?' (with Kelly Lock) Motu Working Paper 07-06
- 'Towards Design For a Nutrient Trading Programme to Improve Water Quality in Lake Rotorua' (with Glen Lauder and David Fairman) Motu Working Paper 07-03
- 'Estimating the Drivers of Rural Land Use Change in New Zealand' (with Joanna Hendy, Kelly Lock and Yun Liang) Paper prepared for the AARES Conference, February 2007, Queenstown, New Zealand
- 'The political economy of structural reform in natural resource use: observations from New Zealand' Paper prepared for National Economic Research Organisations meeting, Paris, June 2006 www.oecd.org

- ‘Sheep and Beef Production Costs Across New Zealand: Introducing the Spatial Dimension,’ (with Kelly Lock, and Joanna Hendy) New Zealand Agricultural and Resource Economics Society Conference, August 24-25, 2006
- ‘Land Use Intensity Module: Land Use in Rural New Zealand Version 1’ (with Joanna Hendy) Motu working paper 06-05, 2006
- ‘Greenhouse gas emissions charges and credits on agricultural land: what can a model tell us?’ (with Joanna Hendy and Troy Baisden) Motu working paper 06-04, 2006
- ‘Greenhouse Gas Emission Factor Module: Land Use in Rural New Zealand—Climate Version 1’ (with Joanna Hendy) Motu Working Paper 05-10, 2005
- ‘The likely regional impacts of an agricultural emissions policy in New Zealand: preliminary analysis’ (with Isabelle Sin, Emma Brunton, Joanna Hendy) Motu Working Paper 05-08, 2005
- ‘Taxes vs permits: Options for price-based climate change regulation’ (with Isabelle Sin and Joanna Hendy) Treasury Working Paper 05/02, April, 2005
- ‘Bi-Directional Impacts of Economics: Social and Environmental Changes and the New Zealand Housing Market’ (with Arthur Grimes and Andrew Aitken) Motu Working Paper 04-09, 2004
- ‘Policy to Encourage Carbon Sequestration in Plantation Forests’ (with Emma Brunton and Ralph Chapman) Motu Working Paper 04-05, 2004
- ‘Tropical Forest Protection, Uncertainty, and the Environmental Integrity of Carbon Mitigation Policies’ (with Joanna Hendy, Shuguang Liu, and Alexander S.P. Pfaff) Motu Working Paper 04-03, 2004
- ‘House Price Efficiency: Expectations, Sales, Symmetry’, (with Arthur Grimes and Andrew Aitken) Motu Working Paper 04-02, Motu Economic and Public Policy Research, Wellington, 2004
- ‘Land Taxes and Revenue Needs as Communities Grow and Decline: Evidence from New Zealand’ (with Andrew Aitken and Arthur Grimes) Motu Working Paper 04-01 (also Lincoln Institute of Land Policy Working Paper), 2004
- ‘Will Buying Tropical Forest Carbon Benefit The Poor? Evidence from Costa Rica’ (with Leslie Lipper, Alexander S.P. Pfaff, Romina Cavatassi, Benjamin Davis, Joanna Hendy and Arturo Sanchez) ESA Working Paper No. 04-20, 2004
- ‘Effects of Poverty on Deforestation: Distinguishing Behavior from Location’ (with Alexander S.P. Pfaff, Romina Cavatassi, Benjamin Davis, Leslie Lipper, Arturo Sanchez and Jason Timmins) ESA Working Paper no. 04-19, 2004
- ‘Indigenous Forests and Forest Sink Policy in New Zealand’ Motu Working Paper 03-15, 2003
- ‘Efficient Contracts for Carbon Credits from Reforestation Projects’ Motu Working Paper 03-12, 2003
- ‘Housing and Economic Adjustment’ (with Arthur Grimes and Andrew Aitken) Motu Working Paper, 03-09, 2003
- ‘Migration and the Environment in the Galapagos: An Analysis of Economic and Policy Incentives Driving Migration, Potential Impacts from Migration Control, and Potential Policies to Reduce Migration Pressure’, (with Susana Cardenas and Joanna Hendy) Motu Working Paper 03-17, Spanish Version ‘Migración y Ambiente en las Islas Galápagos’ published by the World Wildlife Fund, 2003

- ‘A New Zealand land-use model based on national level time-series data’ (with Joanna Hendy) Motu manuscript, June, 2004
- ‘The Effects of Bycatch Relationships on Quota Prices’ (with Andrew Aitken) Report to the Ministry of Fisheries, 2004
- ‘How do catch patterns respond to changes in international prices for different species?’ (with Joanna Hendy) Report to the Ministry of Fisheries, 2004
- ‘What do quotas have to do with the price of fish? Investigating the relationship between sale and lease prices in the market for fish quotas’ (with Kerry Papps) Report to the Ministry of Fisheries, 2003
- ‘Allocating risks in a domestic greenhouse gas trading system’ Motu Working paper 03-01, 2003
- ‘Regional Employment Impacts of the Kyoto Protocol’ Report prepared for the Ministry of the Environment’ (with Joanna Hendy) Motu manuscript, 2002
- ‘A Regulatory History of New Zealand’s Quota Management System: Setting Targets, Defining and Allocating Quota’ (with Gina Straker and Joanna Hendy) Papers and Proceedings IIFET 2002: Fisheries in the Global Economy, Wellington, New Zealand
- ‘A Regulatory History of New Zealand's Quota Management System, Chaps 1-4’ (with Gina Straker and Joanna Hendy) Motu Manuscript, 2002
- ‘A framework for engagement of Maori landowners in ‘Carbon Farming’ using Indigenous forest regeneration’ (with Fiona Carswell, Garth Harmsworth, Rau Kirikiri, and Ian Turney) Landcare Research Contract Report LC0102/116, 2002
- ‘The Dynamics of Deforestation: Evidence from Costa Rica’ (with Alexander S.P. Pfaff, and G. Arturo Sanchez-Azofeifa) Manuscript, Motu, 2002
- ‘Renewable Energy and the Efficient Implementation of New Zealand’s Current and Potential Future Greenhouse Gas Commitments’ (with Brian White, Brian Cox and John Rutherford) Report for the NZ Ministry of the Environment, 2002
- ‘An Empirical Analysis of New Zealand's ITQ Markets’ (with Richard G. Newell, and James N. Sanchirico), Papers and Proceedings IIFET 2002: Fisheries in the Global Economy, Wellington, New Zealand.
- ‘Fishing Quota Markets’ (with Richard G. Newell, and James N. Sanchirico) Resources for the Future Discussion paper 02-20, 2002
- ‘Trade and the environment: The risks and opportunities for New Zealand associated with the relationship between the WTO and multilateral environmental agreements’ (with Elizabeth R. DeSombre) Paper prepared for the New Zealand Ministry for the Environment, 2001
- ‘Seeing the Forest and Saving the Trees: tropical land-use change and global climate policy’ in *Can Carbon Sinks Be Operational?* RFF Workshop Proceedings, Roger A. Sedjo and Michael Toman July 2001 Resources for the Future Discussion Paper 01–26 www.rff.org, 2001
- ‘Emissions Trading, Project-Based Trading and Joint Implementation’ Paper written for the NZ Ministry of Economic Development, 2001
- ‘Internal Mobility in New Zealand’ (with David Maré, William Power and Jason Timmins) Treasury Working Paper 01/4, 2001
- ‘Ecological Tax Reform’ Report prepared for the NZ Ministry of Environment, 2001

- ‘Targeting Regional Assistance’ (with Jason Timmins) Paper written for the New Zealand Treasury, 2000
- ‘Permanence of LULUCF CERs in the Clean Development Mechanism’ (with Catherine R. Leining) Paper prepared for Conference of the Parties 6, The Hague, November, 2000
- ‘Economic Geography and Spatial Statistics: Theory and Empirics of NZ Regions’ (with Jason Timmins) NZ Treasury Working Paper 00/11. 2000
- ‘Devolution and the New Zealand Resource Management Act’ (with Megan Claridge and Dominic Milicich) NZ Treasury Working Paper 98/7, 1998
- ‘Alternative Allocation Methods for Greenhouse Permits: Pros and Cons’ NZ Paper for the Greenhouse Policy Coalition, June, 1998
- ‘Enforcing Compliance: the Allocation of Liability in International GHG Emissions Trading and the Clean Development Mechanism’ Resources for the Future Climate Issue Brief #15, 1998
- ‘Emissions Trading to Regulate U.S. Greenhouse Gas Emissions: Basic Policy Design and Implementation Issues: Parts 1 and 2’ (with Caroline Fischer, and Michael Toman) Resources for the Future Climate Issue Briefs #10 and #11, 1998
- ‘The Clean Development Mechanism: How do we get there from here?’ (with Tim Hargrave) Paper prepared for the Inter-American Development Bank, 1998
- ‘Towards a Theory of Compliance Institutions in International Tradeable Permit Markets: Joint Implementation of the Framework Convention on Climate Change’ Department of Agricultural and Resource Economics, University of Maryland at College Park, Working Paper 96-25, 1996
- ‘Transaction Costs and Tradable Permit Markets: The United States Lead Phasedown’ (with David Maré) Manuscript, Motu Economic Research, New Zealand, 1998
- ‘Adverse Selection and Participation in International Environmental Agreements’ Motu Manuscript, 1995
- ‘Markets versus International Funds for Implementing International Environmental Agreements: Ozone Depletion and the Montreal Protocol’ Working Paper No. 95-12, Center for International Affairs, Harvard University, 1995
- ‘Promotion of Women in the Department of Trade and Industry : A Statistical Study’ Working Paper No. 6 Economics Directorate, Department of Trade and Industry 1987

SELECTED PAPER PRESENTATIONS

- ‘How can agriculture be included in an emissions trading scheme? Some thoughts from New Zealand’ Invited speaker. Australian Farm Institute Agriculture greenhouse and emissions trading conference, Maroochydore, Australia May, 2009
- ‘Cost sharing and allowance allocation in a nutrient trading system for the Lake Rotorua catchment’ Tax Policy Conference 2009 New Zealand tax reform - where to next? Wellington 13 February, 2009
- ‘A Prototype Nutrient Trading System for Lake Rotorua’ Motu Public Policy Seminar, Wellington, and Resource Management Law Association, Dunedin, September, 2008
- ‘A Prototype Nutrient Trading System for Lake Rotorua’ NZARES Nelson, August
- ‘Greenhouse gases and Nutrients: The Interactions Between Concurrent New

- Zealand Trading Systems' NZARES Nelson, August 'Greenhouse gases and Nutrients: The Interactions Between Concurrent New Zealand Trading Systems' Australian Productivity Commission Roundtable 'Promoting Better Environmental Outcomes' Invited speaker. Canberra, August, 2008
- 'Temporal Emission Trading Markets' National Bureau of Economic Research Summer Institute, Environment and Public Policy workshop 'egg-timer' session. 21 July, 2008
- 'Data challenges in creating LURNZ, an econometrically based model of Land Use in Rural New Zealand' Global Land Project Workshop on *Data and model integration for coupled models of land use change* 17th – 19th July, Aberdeen, 2008
- 'Emissions trading – the real oil' Invited speaker at NZ Labour Party conference – workshop and panel November 3, 2008
- 'Water quality management and Nutrient Trading' Invited speaker, Hydrological society Rotorua, 22 November and NZ Waste water management association conference Rotorua, 19 September, 2008
- 'Including agriculture and forestry in a domestic emissions trading system: A New Zealand perspective' Garnaut Climate Change Review Public Forum, Melbourne, August, 2007
- 'The Economics of Deforestation' International Economics Association Roundtable 13 July 2007 Beijing
- 'Involving developing countries post-Kyoto: beyond CDM' Invited Plenary, International Association of Energy Economics Conference, Wellington, 21 February
- 'Managing water quality: Economic challenges in designing efficient nutrient trading programmes' Invited Plenary, Australian Association of Resource Economics, Queenstown, 15 February
- 'Econometric land use modelling in New Zealand and integrated modelling of nutrient trading' Universidad Austral de Chile, Valdivia, December
- 'Thoughts on integrating economic and earth system models' Earth System Science Partnership Open Science Conference, Beijing 2006 (paper presented by Kathy Hibbard, NCAR)
- 'The political economy of structural reform in natural resource use: observations from New Zealand' Presentation in National Economic Research Organisations Meeting, OECD, Paris, June, 2006
- 'Modeling land use and its environmental impacts in New Zealand' Invited presentation at workshop on Economic-Ecological Modeling – University of Waikato, September 2005
- 'New Zealand Fishery Quota Markets: An econometric analysis' Invited speaker at the Australian Association of Agricultural and Resource Economics Symposium, *Frontiers of Resource Economics*, Auckland, October 7, 2004.
- 'Protecting Tropical Forests after 2012' in NIES / IGES Symposium 'International Climate Regime beyond 2012: Issues and Challenges' Tokyo, September 9 2004
- 'Tropical Forest Protection, Uncertainty, and the Environmental Integrity of Carbon Mitigation Policies' NBER Summer Institute, July 2004

- ‘Land use, climate change and tradeable permit markets” Invited Plenary presentation at the Australian Association of Agricultural and Resource Economics Meeting, Melbourne, February, 2004
- ‘Land Taxes and Revenue Needs as Communities Grow and Decline: Evidence from New Zealand’ David C. Lincoln Fellowships in Land Value Taxation Annual Symposium, Lincoln Institute for Land Policy, Cambridge, MA. October 2003
- ‘Evaluating the New Zealand Individual Transferable Quota Market for Fisheries Management’ OECD workshop *Ex post evaluation of tradable permit regimes*, Paris, January, 2003
- ‘Timing of Technology Adoption in a Tradeable Permit Market: Empirical Evidence from the United States Lead Phasedown’ Presented at NBER Summer Institute, Public Policy and the Environment Workshop, Cambridge, MA, August 4, 1997
- ‘Timing of Technology Adoption in a Tradeable Permit Market: Empirical Evidence from the United States Lead Phasedown’ Presented at NBER Universities Research Conference “Innovation and Accumulation in Firms, Industries and Nations” May 2, 1997
- ‘Efficient Regulation Through Tradeable Permit Markets: The United States Lead Phasedown’ Joint with David Maré, Econometric Society Summer Meetings, Iowa City, Iowa, 1996
- ‘Principles for Certification and Monitoring of Joint Implementation and Carbon Credit Trading Markets’ First InterAmerican Conference on Joint Implementation and Sustainable Development, San Salvador, February 27, 1996

MAJOR GRANTS

- New Zealand Foundation for Research Science and Technology(2009 – 2012), ‘Coordination and cooperation for effective climate policy design and implementation’ \$250,000 per year.
- Ministry of Agriculture and Forestry (2008) Secretariat for the Agricultural Technical Advisory for the NZ Emissions Trading system. \$250,000
- New Zealand Foundation for Research Science and Technology, (2007 - 2011) “Integrated Economics of Climate Change” \$450,000 per year.
- New Zealand Foundation for Research Science and Technology, (2007 - 2009) “Markets and water quality: Integrated assessment for policy design” \$500,000 per year.
- Climate Change Policy Dialogue group: Stage 1 Total budget \$100,000 from 5 separate funders; Tindall Foundation, Meridian Energy, Fletcher Building, Morgan Family Charitable Foundation and Foundation for Research Science and Technology
- ‘Nutrient trading study group’ (2007-08) funded by Environment Bay of Plenty, Ministry of Agriculture and Forestry and Ministry for the Environment \$140,000
- Tindall Foundation (2005-2007) Carbon sequestration on Maori land.
- New Zealand Foundation for Research Science and Technology, (2002 - 2007) "Adjustment and Inequality" up to \$500,000 per year
- New Zealand Foundation for Research Science and Technology, (2002 - 2007) "Land Use, Climate Change and Kyoto: Human Dimensions Research to Guide NZ Policy" \$150,000 per year.
- Lincoln Institute of Land Policy (2002) "Land Taxes and Revenue Needs as Communities Grow and Decline: Evidence from New Zealand"

New Zealand Ministry of Fisheries (2002) "To assess the efficiency of the NZ market and identify possible sources of inefficiency by studying quota price formation and market operation." with Jim Sanchirico and Richard Newell.

WWF grant to study Migration and the Environment in Galapagos, (2002).

National Science Foundation: Methods and Models for Integrated Assessment (2000 – 2002) "A Supply Function And CDM Rules For Tropical Forest Carbon Sinks: multi-disciplinary estimation and integrated sensitivity analysis for Costa Rica" (Proposals 9980276 and 9980252)

Resources for the Future (1999 - 2000) "Economic Fishery Conservation through Individual Transferable Quota: Evidence from the New Zealand Experience" with Jim Sanchirico and Richard Newell

Tinker Foundation (1998 - 2000) "Achieving Greatest Benefits from Sequestration in Costa Rica: Costa Rican Land-Use Policies In Light Of Global Climate Change" with Alex Pfaff (Columbia University), David Schimel (National Center for Atmospheric Research), Arturo Sanchez (University of Costa Rica), and Joseph Tosi and Vicente Watson (Tropical Science Center, Costa Rica)

National Center for Ecological Analysis and Synthesis, UC – Santa Barbara, Working group grant for "A Supply Function for Carbon Sequestration in Costa Rica: Multi-Disciplinary Estimation and Integrated Sensitivity Analysis". May, 1998 – May, 2000 with Alex Pfaff (Columbia University), David Schimel (National Center for Atmospheric Research), Arturo Sanchez (University of Costa Rica), and Joseph Tosi and Vicente Watson (Tropical Science Center, Costa Rica)

FELLOWSHIPS AND RECOGNITION

Appointed to government appointed Climate Change Leadership Forum, New Zealand, 2007-08

David C. Lincoln Fellowship in Land Value Taxation, Lincoln Institute of Land Policy Graduate Student Associate at the Center for International Affairs 1993-95

Nominated for Harvard University Merit Fellowship 1992

Nominated for Sloan Foundation Fellowship 1992

Resident Economics Tutor, Currier House, Harvard University

Support from the New Zealand Treasury 1990 - 1995

New Zealand Senior Scholarship 1987

Kelliher Foundation Economics Prize 1983

REFEREE ACTIVITY

Ecological Applications – Subject Matter Editor

Reviewer:

Journal of Economic Literature

Kotuitui: New Zealand Journal of Social Sciences Online

Energy Policy

Addison-Wesley Longman, Inc.

Cambridge University Press

Economic Letters

Elsevier Science Publishers (North-Holland)

Environment and Development Economics
Intergovernmental Panel on Climate Change
Journal of Environmental Economics and Management
Journal of Public Economics
National Science Foundation
Journal of Economic Surveys
Contemporary Economic Policy
Climatic Change
Environmental Conservation
Climate Policy

TEACHING EXPERIENCE

Graduate Student Teaching

VICTORIA UNIVERSITY OF WELLINGTON

Econ/Publ 411 Economics of the Public Sector (2001 - 2005). Co-taught.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

AREC 689M Advanced Topics in Environmental Regulation (Fall 1996)

AREC 689L Workshop on Environment and Development Economics (Spring 1996)

Informal Dissertation Seminar (Spring, Fall 1997)

Reading Course on Taxation and the Double Dividend (Fall 1997)

THESES SUPERVISED

Dissertation Defense Committee

Jason Funk PhD, Emmett Interdisciplinary Programme in Environment and Resources, Stanford University)

Charles Griffiths, PhD, Economics Dept. University of Maryland – College Park

Janet Carpenter: Masters, AREC, University of Maryland – College Park

Laura Cornwall, PhD, MEES Program, University of Maryland – College Park

Undergraduate Teaching

UNIVERSIDAD AUSTRAL DE CHILE

Sistemas Agropecuarios (PRAN 100 – 04): Agricultural and fisheries systems. Two lectures on cooperation.

OTAGO UNIVERSITY SCHOOL OF LAW

Contributed Lecture International Environmental Law course, 2008

VICTORIA UNIVERSITY

Contributed lecture in course ‘Climate Change and NZ’s future’ 2005 – 2009.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Professor AREC 332/432 Introduction to Natural Resource Policy (Spring 1996 - 97)

HARVARD UNIVERSITY

Teacher, Sophomore Tutorial on Environmental Economics (Spring 1995).

Teaching Fellow, Senior Thesis seminar in Applied Microeconomics (1994/95).

Teaching Fellow, Senior Thesis seminar on Labor Economics (1992/93).

Resident Economics Tutor at Currier House (1992/93), Non-Resident Tutor (1991-95).

Tutor for Graduate Microeconomics General Examinations (1992).

Section leader for Economics 1410 Public Sector Economics (1991/92).
UNIVERSITY OF CANTERBURY
Section Leader, First Year Economics (1986-87).

LANGUAGES Spanish