

Curriculum Vitae



Katharine Nora Farrell (Kate)

Ph.D., Queen's University Belfast, 2005 (with honours)

Citizenship: Dual, Ireland and USA
Date and Place of Birth: 04. May, 1969, Livingston, NJ, USA
Family Status: Married, No Children
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Email: katharine.farrell@QUB.ac.uk
Personal Website: www.katharine-farrell.org

Personal Interests

Fitness of Body, Mind and Spirit:

I have practiced Koryū Uchinādi karate for 15 years, train on a daily basis and work to maintain a balance between exercising body, mind and spirit.

Music and the Fine Arts:

I play several musical instruments moderately well, compose music, write song lyrics and enjoy singing folk and jazz music, sculpting, painting and drawing.

Cooking:

I love to cook, particularly for other people, some of whom even enjoy the results!

Language Skills

English (native); German (fluent spoken & written C1); Spanish (fluent spoken & written B2); French (survival); Algebra, Statistics (instruction competence), The Calculus (fluent)

Computer Skills

SPSS (instructor level competence); FoxPro (fluent); MS Office - Word, Excel, Access, PowerPoint (fluent); dbase (fluent); Corel Draw (functional); 'Basic' Computer Programming Language (functional); LAN Administration (functional)

Academic Qualifications

PhD, Ecological Political Economy (with honours) [December, 2005]

Making Good Decisions Well: A Theory of Collective Ecological Management

Queen's University Belfast, Belfast, Northern Ireland

Institute of Governance, Public Policy and Social Research

MSc, Environmental Engineering (by research) [November, 2000]

Cycles of Waste Production and Consumption: An Ecological Economic Study of Municipal Solid Waste Recovery Opportunities in Ireland

Trinity College Dublin, Ireland

Department of Civil, Structural and Environmental Engineering

MSc, Urban Policy Analysis and Management (with honours) [May, 1997]

New School for Social Research, New York, NY, USA

Robert J. Milano Graduate School of Management and Urban Policy

BA, Political Science (with honours) [May, 1991]

Rutgers University, New Brunswick, NJ, USA

Douglass College

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Prizes, Awards, Academic Scholarships and Major Grants

Awards Received in Recognition of Academic Excellence

- 2007 listed in Marquis *Who's Who in the World*
- 2002-2005 *Full Academic Merit Scholarship*
UK Support Program for University Research, Queen's University
Belfast, Northern Ireland.
STG£ 8,000-9,000 / c. € 12,000-13,000 per annum (3yrs)
+ academic fees
- 1999-2000 *Partial Academic Merit Scholarship*
Professor's Discretionary Fund, Department of Civil, Structural and
Environmental Engineering, Trinity College Dublin, Ireland.
academic fees (c. € 4,000)
- 1997 *Jacob M. Kaplan Outstanding Graduate Award*
Robert J. Milano Graduate School of Management and Urban
Policy, New School for Social Research, NY, NY, USA.
- 1996-1997 *Full Academic Merit Scholarship*
Robert J. Milano Graduate School of Management and Urban
Policy, New School for Social Research, NY, NY, USA.
c. US\$ 25,000 / c. € 23,000 (including fees)
- 1990 & 1991 *Dean's List, Recognising Academic Excellence*
Rutgers University, New Brunswick, NJ, USA.
- 1990 *Pi Sigma Alpha [ΠΣΑ]*
National Political Science Honors Society of the USA
- 1987 *Advanced Placement University Degree Credits Awarded for Biology*
Columbia High School, South Orange, NJ, USA.

Major Post-doctoral Research Grants

- 2006-2008 *Marie Curie Intra-European Fellowship*
European Union, Directorate General for Research - FP6.
- early stage post-doctoral researcher grant awarded to conduct a self
designed empirical research project in collaboration with the hosting
institution.
Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany:
Jan., 2006 - Mar., 2008 / c. € 142,000
- 2006 *Short-term Visiting Post-Doctoral Researcher Grant*
Japan Society for the Promotion of Science – JSPS.
- post doctoral grant supporting a three month research visit with Prof. Kozo
Mayumi to develop ecological economics theory concerning the
relationships between time and tradition in Nicholas Georgescu-Roegen's
flow/fund model of economic production:
University of Tokushima, Shikoku, Japan.
May - Jul., 2006 / ¥ 1,419,000 / c. € 16,000 + flights

Small Grants Awarded During and Immediately after my Ph.D. Studies

- 2005 *Special Workshop Grant*,
Science in Society Programme, UK Economic & Social Research Council (ESRC).
- grant and in kind services were provided to facilitate the convening of a special international workshop ‘Making Sense of Science in Society: considering the downstream consequences of upstreaming.’
Saïd Business School, University of Oxford, Oxford UK.
26 Jan., 2006 / c. STG£ 6,000 / c. € 8,800
- 2003 *Visiting Scholar Grant*,
Norwegian Research Council.
- grant supporting all costs associated with a one month research visit with Prof Arild Vatn, where we explored the role of institutions in the shaping of environmental value preferences and discussed the preparation of my Ph.D. dissertation and his, then in preparation, book *Institutions and the Environment*. Agricultural University of Norway (now the Norwegian University of Life Sciences)
Oct., 2003 / c. NK 17,000 / c. € 2,100 + flights.

Publications

Peer Reviewed Academic Journal Articles - accepted, in press or published

- Farrell**, K.N. (accepted subject to minor revisions) ‘Intellectual Mercantilism and Franchise Equity: a critical study of the ecological political economy of international payments for ecosystem services’ *Ecological Economics* Undergoing Re-Review.
- Latorre, S. and **Farrell**, K.N. (accepted) ‘The disruption of Ancestral Peoples of the Mangrove Ecosystem: class and ethnic differentiation within a changing political context’ *Journal of Latin American and Caribbean Ethnic Studies* Copyediting.
- Scheidel, A., **Farrell**, K.N., Ramos-Martin, J., Giampietro, M., Mayumi, K. (accepted) ‘Land poverty and emerging ruralities in Cambodia: Insights from Kampot province’ *Environment, Development and Sustainability* Copyediting.
- Ariza-Montobbio, P., **Farrell**, K.N., Gamboa, G., Ramos-Martin, J. (accepted) ‘Integrating energy and land use planning: Exploring the rural-urban continuum in typologies of energy metabolism in Catalonia, Spain’ *Environment, Development and Sustainability* Copyediting.
- Silva-Macher, J.C., **Farrell**, K.N. (accepted) ‘The Flow-Fund Model of Conga: Exploring the Anatomy of Environmental Conflicts at the Andes-Amazon Commodity Frontier’ *Environment, Development and Sustainability* Available Online, September, 2013.
[doi: 10.1007/s10668-013-9488-3]
- Farrell**, K.N. and Thiel, A. Eds. (2013) ‘Nudging Evolution? Critical Exploration of the Potential and Limitations of the Concept of Institutional Fit for the Study and Adaptive Management of Social-Ecological Systems (Editorial)’ *Ecology and Society* 18(4):47.
[doi: 10.5751/ES-05945-180447]
[full Special Feature <http://www.ecologyandsociety.org/issues/view.php?sf=70>]
- Yu, L., **Farrell**, K.N. (2013) ‘Individualized Pastureland Use: Responses of herders on institutional arrangements in pastoral China’ *Human Ecology* 41(5):759-771.
[doi: 10.1007/s10745-013-9580-1]

- Ariza-Montobbio, P., **Farrell**, K.N. (2012) 'Wind Farm Siting and Protected Areas in Catalonia: Planning Alternatives or Reproducing 'One-Dimensional Thinking?'' *Sustainability* 4 (12), 3180-3205.
[doi:10.3390/su4123180]
- Schirmer, M., Lyon, K., Armstrong, J.E., **Farrell**, K.N. (2012) 'A socio-ecological adaptive approach to contaminated mega-site management: From 'control and correct' to 'coping with change'' *J. Contam. Hydrol.* 127(1-4):101-109.
[doi:10.1016/j.jconhyd.2011.06.008]
- Koetz, T., **Farrell**, K.N., Bridgewater, P. (2012) 'Building better science-policy interfaces for international environmental governance: assessing potential within the Intergovernmental Platform for Biodiversity and Ecosystem Services' *International Environmental Agreements: Politics, Law and Economics* 12(1):1-21.
[doi:10.1007/s10784-011-9152-z]
- Farrell**, K.N. (2011) 'Snow White and the Wicked Problems of the West: a look at the lines between empirical description and normative prescription' *Science, Technology and Human Values* 36(3):334-361.
[doi: 10.1177/0162243910385796]
- Schirmer, M., **Farrell**, K.N., Lyon, K., Armstrong, J. (2011) 'Contaminated mega-site management: the complex problem challenge' *GQ10: Groundwater Quality Management in a Rapidly Changing World* (342):194-197.
- Farrell**, K.N. and Mayumi, K. (2009) 'Time Horizons and Electricity Futures: an application of Nicholas Georgescu-Roegen's general theory of economic production' *Energy – The International Journal* 34: 301-307.
[doi: 10.1016/j.energy.2008.07.002]
- Farrell**, K.N. (2008) 'The Politics of Science Concerning Sustainable Development: Marcuse's new science in the 21st Century' *Capitalism Nature Socialism* 19(4):68-83.
[doi: 10.1080/10455750802559616]
- Farrell**, K.N. (2007) 'Living with Living Systems: the co-evolution of values and valuation', *The International Journal of Sustainable Development and World Ecology* 14(1):14-26.
[doi: 10.1080/13504500709469704]
- Farrell**, K.N. and Winkler, R. Eds. (2006) Complexity and Ecological Economics (Special Issue) *Ecological Complexity* 3(4).
[doi: 10.1016/j.ecocom.2007.02.012]
- Farrell**, K.N. (2006) 'Reflections on International Political Economy and Global Environmental Governance' *Organisation & Environment* 19(2):270-274.
[doi: 10.1177/1086026606288135]
- Meadowcroft, J., **Farrell**, K.N., Spangenberg, J. (2005) 'Governance for Sustainable Development: Developing a framework for sustainability governance in the European Union' *International Journal of Sustainable Development* 8(1/2):3-11.
[doi: 10.1504/IJSD.2005.007371]
- Farrell**, K.N., Kemp, R., Hinterberger, F., Rammel, C. and Ziegler, R. (2005) 'From * for * to Governance for Sustainable Development in Europe - what is at stake for further research?' *International Journal of Sustainable Development* 8(1/2):127-150.
[doi: 10.1504/IJSD.2005.007379]
- Farrell**, K.N. (2005) 'Different forms of Difference in Multi-level Governance for Sustainability: connections between gender and complexity theory perspectives' *Der Öffentliche Sektor-Forschungsmemoranden* 1-2:9-19.
[http://www.ifip.tuwien.ac.at/publ/oes/oes_pdf/oes_2005_1-2.pdf]

Farrell, K.N. (2004) 'Recapturing Fugitive Power: epistemology, complexity and democracy' *Local Environment* 9(5):469-479.
[doi: 10.1080/1354983042000255360]

Papers currently undergoing Peer Review or Revision

- Latorre, S, **Farrell**, K.N., Martinez-Alier, J. (submitted – currently undergoing peer review) 'The commoditization of nature and socio-environmental resistance in Ecuador: an inventory of conflicts, 1980-2013' *Geoforum*
- Silva-Macher, J.C., **Farrell**, K.N. (submitted, rejected with option to resubmit – currently undergoing major revision) 'The Triadics of Sierra del Divisor' *Ecological Economics*
- Yu, L and **Farrell**, K.N. (submitted to *Ecological Economics*, rejected – currently undergoing major revision) 'Transactions in a Changing Social Ecological System' *Journal tbd.*

Papers currently in Preparation for Submission

Wrapping-up ongoing Lines of Research:

- Farrell**, K.N. (close to completion) 'The Anthropocene and Rudolf Bahro's Megamachine: exploring relationships between Marcuse's concept of technology as ideology and Bahro's discourse on the decomposition of late industrial societies' *Capitalism Nature Socialism*
- Farrell**, K.N. (close to completion) 'Interdisciplinary Deliberative Democracy: a normative theory concerning the political economy of knowledge concerning the environment' *Environmental Politics*
- Farrell**, K.N. (close to completion) 'Castles in the sand: resilient social-ecological relations and the structuring of big back loops with reliably volatile sub-systems' *Ecology and Society*
- Farrell**, K.N. (close to completion) 'Knowing, Thinking and Judging in Environmental Politics: an empirical study of epistemological synergies and dissonance among participants in environmental science for policy' *Journal of Environmental Psychology*
- Farrell**, K.N. (close to completion) 'A contribution to the critique of social-ecological transactions: de-constructing 'what is a natural resource?'' *Ecological Economics*
- Latorre, S, **Farrell**, K.N. (under development) 'The New Ecuadorian Political Subject: a look at the political theory links between the rights of nature and the political subjectivity of the Ancient Mangrove People of Ecuador' *Environmental Politics*

As part of my Habilitation:

Theory Papers

- Farrell**, K.N., Paraboy, E. and Mwarabu, A.K. (under development) 'Flows, Funds and the Reproduction of Pastoralism: an Analytical Economics Approach to understanding the changing production processes of the Maasai of Mbeya, in Tanzania' *Ecological Economics*
- Farrell**, K.N. (under development) 'The Analytical Economics of Living Well: exploring links between Nicholas Georgescu-Roegen's Institutional Resource Economics and the Buen Vivir Discourse in Latin America' *Ecological Economics*

Farrell, K.N. (under development) 'People, Process and Production: linking together the Institutional Resource Economics of Elinor Ostrom and Nicholas Georgescu-Roegen' *target journal tbd*

Applied Papers

Dell'Angelo, J. and **Farrell**, K.N. (close to completion) 'Neoliberalism and metabolic patterns in the Tibetan Rangelands: the resettlement transformation' *target journal tbd*

Paraboy, E., **Farrell**, K.N. and Mwarabu, A.K. (under development) 'An Integrated Assessment of Pastoralist Production' *target journal tbd*

Scheidel, A. and **Farrell**, K.N. (under development) 'Funds, Capital and Capacity Building: a study of the Role of Savings Institutions in Mediating the Flow of Money and Rice in Kcheay Khang Lech Village, Kampot Province, Cambodia' *target journal tbd*

Farrell, K.N. and Dell'Angelo, J. (under development) 'The Tragedy of Enclosure: an Analytical Economics study of the causes and consequences of the criminalisation of Pastoralism' *target journal tbd*

Farrell, K.N. (under development) 'Analytical Economics of Artisanal Fisheries: a comparative study of relationships between material throughput and institutional design in artisanal fisheries in Costa Rica and Ireland' *target journal tbd*

Farrell, K.N. (under development) 'Farming for the Future: a comparative study of relationships between material throughput and institutional design in small holder meat production farms in Ireland and Germany' *target journal tbd*

Farrell, K.N. (under development) 'Energetic Opportunities and Ecological Debt: a flow/fund study of relationships between material throughput, institutional design and ecological impacts in the export fruit sector of Colombia' *target journal tbd*

Books - contracted, in press or published

Farrell, K.N., van den Hove, S., Luzzati, T. Eds. (2013) *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London.

Prefaces

Robert Costanza and Richard Norgaard

Contributors

John Barry; Mary E. Clark; Katharine N. Farrell; Mario Giampietro; C.S. Holling; Catherine Jolibert; Tommaso Luzzati; Joan Martínez-Alier; Kozo Mayumi; Mary Mellor; Cordula Mertens; Jesus Ramos-Martin; Jerome R. Ravetz; Ariel Salleh; Minna Santaoja; Vandana Shiva; Sybille van den Hove; Arild Vatn; Brian Walker

This is a book about the work of scientists in the era of the Anthropocene: where human beings appear to have become a driving force in the evolution of the planet. It is a diverse collection of empirical, methodological and theoretical chapters concerned with the practice of interdisciplinary social-ecological systems research. The aim of the contributors is to give the reader an appreciation for the range and complexity of the challenges faced by researchers, research institutions and wider communities trying to make sense of the causes and consequences of the this new era of global environmental change.

All the contributors begin from the premise that the challenges of the Anthropocene can only be successfully met if interdisciplinary research effectively brings together social and natural sciences, the humanities, stakeholders and decision makers. They conclude, in

unison, that both the institutional and the methodological foundations needed to do this work are still sorely lacking. While this may seem a dismal position, the book is full of success stories, such as: the integrative approach of MuSIASEM (Multi-Scale Integrative Assessment of Social-Ecological Metabolism) developed by Mario Giampietro's group in Barcelona, Spain; the alternative perspectives of what Ariel Salleh calls the 'meta-industrial' discourse in Ecofeminism; or the innovative trans-departmental status of the Stockholm Resilience Centre in Sweden. Putting both the theoretical and methodological challenges of moving beyond reductionism on the table for discussion, this text aims to help a growing community of passionate thinkers and actors better understand themselves and their work.

Farrell, K.N. (2009) *Making Good Decisions Well: A Theory of Collective Ecological Management* Band 37 of the Series "Institutional Change in Agriculture and Natural Resources – ICAR" Eds. Konrad Hagedorn and Volker Beckmann, Shaker Verlag: Aachen, Germany.

This book is a slightly edited version of my PhD Dissertation, registered with Queen's University Belfast in 2005.

(for a summary of the contents please see Details of Academic Qualifications)

Book Chapters and Chapters in Proceedings - accepted, in press or published

Farrell, K.N., Luzzati, T., van den Hove, S. (2013) 'What lies beyond reductionism? mapping the structure and challenges of conducting inter-disciplinary ecological economics research' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 36-75.

Barry, J. and **Farrell, K.N.** (2013) 'Building a Career in the Epistemological No Man's Land' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 121-153.

Salleh, A., Mellor, M., **Farrell, K.N.** with Shiva, V. (2013) 'How Ecofeminists Use Complexity in Ecological Economics' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 154-178.

Santaoja, M., Treffny, R., Mertens, C., Jolibert, C. with **Farrell, K.N.** (2013) 'Looking for a place to anchor: confusing thoughts along an interdisciplinary dissertation journey' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 221-248.

Farrell, K.N. (2011) 'The Politics of Science: has Marcuse's New Science finally come of age?' In Biro, A. Ed. *Critical Ecologies: The Frankfurt School and Environmental Politics in the 21st Century* University of Toronto Press, Toronto: 73-107.

Farrell, K.N., Lyon, K., Armstrong, J. and Schirmer, M. (2008) 'Management of Mega-contaminated Sites: the complex problem challenge' In CSMWG (Contaminated Sites Management Working Group) Ed. (2008) *Proceedings of the Federal Contaminated Sites Workshop, Vancouver, BC, 28 Apr. - 01 May, 2008*. Government Publications Office, Canada.

Working Papers - accepted, in press or published

Farrell, K.N. (2007) 'Making Sense of Science in Society: considering the downstream consequences of upstreaming' UK Economic and Social Research Council Workshop Report, ESRC Science in Society Programme, Saïd Business School, University of Oxford, Oxford, UK.

Farrell, K.N. and Ravetz J. R. Eds. (2005) ‘Governance of Science: the new politics of science in historical perspective’ Institute of Governance, Public Policy and Social Research Working Paper QU/GOV/2/2005.

Farrell, K.N. (2004) ‘Living with living systems: exosomatic instruments and the evolution of homo sapiens’ Governance for Sustainable Development (GoSD) Working Paper No. 3 (<http://www.gosd.net/pdf/gosd-wp3.pdf>).

Book Reviews - accepted, in press or published

Farrell, K.N. (2012) ‘Work Meets Life: Exploring the Integrative Study of Work in Living Systems, Robert Levin, Simon Laughlin, Christina De La Rocha, and Alan Blackwell Eds. (2010) MIT Press: Book Review’ *American Journal of Human Biology* 24 (2): 196-197.

Farrell, K.N. (2011) ‘Tackling Wicked Problems Through the Transdisciplinary Imagination’ Valerie A. Brown, John A. Harris and Jaqueline Y. Russell Eds. (2010) Earthscan: Book Review *Journal of Environmental Policy & Planning* 13 (1): 75-77.

Farrell, K.N. (2010) Review of: Eco-Sufficiency & Global Justice: Women Write Political Ecology, Ariel Salleh Ed. (2009) New York, NY: Pluto Press: *Organization & Environment* December 23(4): 487-490.

Farrell, K.N. (2005) ‘Ecological and Environmental Economics: Selected Issues and Policy Responses, Clem Tisdell (2003) Edward Elgar: Book Review’ *Environmental Politics* 14(5):723-724.

Farrell, K.N. (2005) ‘Environmental Planning in the Netherlands: Too Good to be True, From Command-and-Control Planning to Shared Governance, Gert de Roo (2003) Ashgate: Book Review’ *Environmental Politics* 14(5):733-734.

Farrell, K. N. (2005) ‘Review Essay: Complexity, Organisation and Change, Elizabeth McMillan (2004) Routledge’ *Organisation & Environment* 18(1):124-127.

Farrell, K. N. (2004) ‘Critical Political Ecology, Tim Forsyth (2003) Routledge: Book Review’ *Environmental Values* 13(3):403-406.

Farrell, K. N. (2004) ‘Organisations, Policy, and the Natural Environment: Institutional and Strategic Perspectives, Andrew J. Hoffman and Marc J. Ventresca (2002) Stanford University Press: Book Review’ *Environmental Politics* 13(2):503-505.

Farrell, K. N. (2003) ‘Waste in Ecological Economics, Katy Bisson and John Proops (2002) Edward Elgar: Book Review’ *Environmental Politics* 12(4):154-155.

Farrell, K. N. (2003) ‘Review Essay: Green States and Social Movements, John S Dryzek, David Downes, Christian Hunold and David Schlosberg with Hans-Kristian Hernes (2003) Oxford University Press’ *Organisation & Environment* 16(3):398-400.

Farrell, K. (1994) ‘The Ecology of Commerce, Paul Hawken (1994) Harper Collins: Book Review’ *Capitalism Nature Socialism* 5(4):132-133.

Non-Academic Publications

Farrell, K.N. (2002) Technical Companion Document to the Irish Alternative Country Report *Telling it like it is: ten years of unsustainable development in Ireland*. Prepared for and presented to the Johannesburg World Summit on Sustainable Development, Earth Summit Ireland, Dublin.

Farrell, K. ‘How our looming waste crisis can be solved’
The Sunday Business Post: Comment & Analysis, 12 August, 2001.

Farrell, K. ‘Waste Not, Want Not’
Business & Finance: 22nd-28th March, 2001.

Farrell, K. ‘Labour, IBEC call for national waste authority’
The Sunday Business Post: 14 February, 2001.

Farrell, K. ‘Landed in a mess of our own making’

The Sunday Business Post: 14 January, 2001.

Farrell, K. ‘Ireland needs one waste plan not ten’

The Sunday Business Post: Comment & Analysis, 19 November, 2000.

Farrell, K. ‘Persian Gulf: whose war is it anyway?’

Rutgers Review: 16 October, 1990.

Current Academic Employment and Affiliations

Humboldt-Universität zu Berlin

Faculty of Agriculture and Horticulture, Division of Resource Economics, Unter den Linden 6, 10117 Berlin, Germany.

Senior Researcher, Lecturer and Assistant to the Professor

Oct., 2010 - present

Responsibilities

Lecturing

Environmental and Resource Economics I

Die Alternative und die Logik der Rettung

Doctoral Certificate Program in Agricultural Economics

(for details please see Teaching Experience Overview)

Participation in the Division’s weekly Research Colloquium

Supervision of PhD Students

(for details please see PhD Students)

Evaluation of PhD Dissertations

As part of my duties to the Department of Agricultural Economics I am occasionally asked to serve as a member of PhD final evaluation committees.

Supervision of Bachelors Student Thesis Projects

(for details please see Teaching Experience Overview)

Investigative Research

Habilitation: *The Analytical Economics of Living Well: Concepts and Applications for the Combined Study of Value, Production and the Ecological Contribution of Economic Processes*

Pastoralist herding, artisanal fishing and small holder farming are the oldest, most widely practiced and longest continuously viable forms of economic production in the world. They constitute the foundations upon which not only modern agricultural production, but also the entire modern industrial economy has been built. The knowledge embodied in these practices can be understood as economic institutional knowledge, concerning how to set, reach and revise ecologically and economically viable rates of renewable and non-renewable resource extraction that make possible sustainable forms of what Alfred

Marshall referred to as the attainment and use of the material requisites of wellbeing. Why some ancient practices of human biomass exploitation failed and others endured is worth understanding because this can provide insights regarding how current institutions for the regulations of agricultural production might be revised and improved, in order to ensure both their economic and ecological sustainability, over the medium and long term. Substantial contributions toward addressing this question have been made by Elinor Ostrom and by the research and projects of the Savory Institute, among others. Ostrom's work on this subject, in particular, has provided an internationally recognised reference for identifying institutional factors that are likely to lead to the successful establishment of sustainable common pool resource management regimes. In recent years that work has been complemented by the Latin American political discourse on Living Well or Buen Vivir. Although the language used is often distinct, the basic question is strongly similar: how the institutional configuration and ecological impacts of economic processes are related to each other. Despite increasing international attention to the basic topic, the concrete question of how, precisely, different institutional configurations are either specifically and/or generally related to the processing of concrete organic and inorganic material throughputs (e.g. water, milk, biomass, energy) remains poorly understood. The basic aim of this Habilitation is to provide insight on this question by using the work of Nicholas Georgescu-Roegen to bring Buen Vivir and Ostrom together.

Ecological Economics Theory Development

Through the supervision of PhD students and in collaboration with Prof Andreas Thiel and other colleagues at the Division of Resource Economics, I have been working to develop ecological economics theory concerning the relationship between resource use and institutions. The main results to date are the publication of a Special Feature of the journal *Ecology and Society*, co-edited with Prof Andreas Thiel, titled "Nudging Evolution? critical exploration of the potential and limitations of the concept of institutional fit for the study and adaptive management of social-ecological systems," the formulation of my Habilitation project and several recent publications concerning institutional aspects of Georgescu-Roegen's flow/fund model of the economic process, prepared in collaboration with colleagues at L'Institut de Ciència i Tecnologia Ambientals.

Convenor of the Resource Economics Division's Philosophy of Science Discussion Group

This is a PhD student discussion group that meets on a bi-monthly basis to discuss classic methods and methodology texts, such as Descartes' *Discourse on Method*, Popper's *The Logic of Scientific Discovery*, and Kant's *What is Enlightenment*. The group was set up at the request of PhD students who were interested to learn more about these topics, which I mention from time to time in my interventions at the Divisions weekly research seminar.

Co-ordination of a Publication Inventory Project for the Department

Upon commencing my collaborations with the Division of Resource Economics, I enquired as to where I might find a comprehensive list of the publications of my colleagues, so that I could familiarise myself with their work and explore opportunities for synergies in our research agendas. As there was no such inventory list available, I agreed to help the Professor to construct one. This involved collaborations with the scientific and administrative staff of the Division and eventually resulted in the construction of dedicated software, compatible with Endnote, RefWorks and Citavi, which is now used to record, archive and compile the Divisions publication records for both public presentation and internal use.

Universitat Autònoma de Barcelona

L'Institut de Ciència i Tecnologia Ambientals (ICTA), 08193 Bellaterra, Barcelona, Spain.

Investigadora Vinculat (Associate Researcher)

May 2012 - present

Responsibilities

Direct Supervision of PhD Students
(for details please see PhD Students)

Investigative Research on Interdisciplinary Research Methodology

This is currently my main investigative activity with ICTA and is oriented toward the preparation of the ERC Consolidator Grant application outlined below. The work has, up until now, been comprised of a series of workshops, organised within ICTA, targeted toward establishing a discursive community disposed to subject themselves to investigation and experimentation, in the empirical research field of inter- and transdisciplinary research methodology.

ERC Consolidator Grant Application in Preparation for Submission in 2015

The aim of this application is to establish an empirical research laboratory for the study and development of inter- and transdisciplinary research methodologies. The basic structure of the proposed investigation is: (i) finance internal secondments of 2-3 months, for ICTA researchers to dedicate themselves full time to the work of evaluating, critiquing and improving the design of their inter- and transdisciplinary research collaborations; (ii) establish formal investigative protocols that allow inter- and transdisciplinary research methods and associated scientific results to be evaluated for empirical robustness and political legitimacy; (iii) to establish a long-term work space platform upon, and within which investigators and students can allocate a portion of their research time to formal study and design of inter- and transdisciplinary research methods and methodology.

Central European University

Department of Environmental Science and Policy,
Nador ut. 9, 1051 Budapest, Hungary.

Adjunct Lecturer in Environmental Economics

Sept., 2009 - present

n.b. *This position was offered as full time tenure track in 2009. At the same time I received an offer to join L'Institut de Ciència i Tecnologia Ambientals, in Barcelona. A deferral was negotiated and the offer was eventually converted into this adjunct position.*

Responsibilities

Lecturing

Introduction to Environmental Economics
Lecturing - Environmental Economic Instruments
(for details please see Teaching Experience Overview).

Details of Academic Qualifications

Queen's University Belfast

Institute of Governance, Public Policy and Social Research, School of Politics,
Belfast, BT7 1NN, Northern Ireland.

Ph.D. Candidate

Sept., 2002 - Oct., 2005: Graduated December 2005, with honours

Thesis Supervisor: Dr John Barry
Opponent for the Defence: Dr. Silvio O. Funtowicz

PhD Dissertation

Making Good Decisions Well: A Theory of Collective Ecological Management

The point of departure for this thesis is a critique of the practice of assigning monetary values (e.g. shadow pricing, contingent valuation, travel costs measures, etc.) to ecological phenomena (monetary valuation) to achieve policy relevance for ecological considerations (e.g. via cost-benefit analysis, Pareto assessments, etc.). In order to carry out this critique, a set of analytical criteria were developed, which specify necessary but not necessarily sufficient conditions that must be met in order to speak about the economic worth of ecological phenomena. These criteria are based on a description of ecological phenomena as living systems, and explicitly classify human beings, their communities, perceptions and social institutions, as parts of the complex, multi-dimensional system of life on earth, comprised of multiple, inter-dependent, life related sub- meso- meta- and supra- systems.

It is argued that, due to the specific characteristics of living systems, it is not only inaccurate (the traditional analytical critique of monetary valuation) but also counter productive to represent the economic worth of priceless ecosystem goods and services through monetary valuations. This argument is advanced by developing an evolutionary theory based, analytical critique of the pragmatic defence of monetary valuation (Farrell, 2007 – listed above).

Using these same living systems criteria, deliberative democratic discourse is then evaluated as an alternative process for articulating the economic worth contributed by ecological phenomena and is also found lacking (Farrell, 2008 – listed above). A speculative normative theory of epistemologically complex, inter-disciplinary deliberative democracy is then proposed as an alternative basis upon which it may be possible to build new democratically legitimate environmental valuation procedures that can support epistemologically complex, empirically robust articulations of the economic worth of priceless ecological phenomena.

Trinity College Dublin

Department of Civil, Structural and Environmental Engineering,
Dublin 2, Ireland.

M.Sc. Candidate

Environmental Engineering (By Research)
Sept., 1997 - Sept., 1999: Graduated November, 2000

Thesis Supervisor: Dr Paul Johnston

Examination Results

All civil engineering research degree candidates were required by the Professor of Civil Engineering to complete two technical MSc course examinations, on a pass/fail basis, in order to proceed with their research studies. During the first year of my studies with the Civil Engineering Department, I sat the department's technical MSc courses in Hydrogeology and Waste Management and received pass grades in the examinations for both courses.

Masters Thesis

Cycles of Waste Production and Consumption: An Ecological Economic Study of Municipal Solid Waste Recovery Opportunities in Ireland

A copy of this dissertation was requested by the Irish Environmental Protection Agency and is lodged in their head office reference library.

This was a multi-disciplinary dissertation that integrated tools from the social and the physical sciences to develop policy recommendations for managing Ireland's rapidly growing municipal solid waste stream. The dissertation employed life-cycle assessment, Ecological Footprint analysis, eco-toxicological analysis, policy analysis and analysis of Leontief Input-Output matrix data for Ireland. It was intended to bridge a gap in the discourse on environmental policy by simultaneously assessing both economic and ecological impacts of a range of waste management policy options. The overall academic aim of the work was to demonstrate that practicable policy recommendations concerning environmental planning and management can be developed on the basis of complex arrays of information and do not necessarily require recourse to single metric and commensurating analytics.

The New School for Social Research

Robert J. Milano Graduate School of Management and Urban Policy,
66 West 12th Street, New York, NY, 10011, USA.

M.Sc. Candidate

Urban Policy Analysis and Management

Sept., 1993 - May, 1997: Graduated May, 1997, with honours

Cumulative Grade Point Average: 3.9 cumulative

Graduate Records Examination: 700 analytical / 1890 cumulative

Jacob M. Kaplan Outstanding Graduate Award

Additional Academic Activities conducted during this Study Period

Research Assistant,

Milano Graduate School Technology Initiative,

Robert J. Milano Graduate School of Management and Urban Policy

Mar. - Jun., 1997

Responsibilities

identifying and developing software to assist students and staff executing applied mathematics based analyses and development of an interactive mathematics tutorial software program.

Teaching Assistant
Quantitative Methods of Statistical Analysis,
Robert J. Milano Graduate School of Management and Urban Policy
Jan., 1996 - May, 1997

Responsibilities

(for details please see Teaching Experience Overview)

Graduate Research Assistant to the Program Director
The South Africa Partnership Program,
The Graduate Faculty of The New School for Social Research
Jun., 1996 - Jan., 1997

Responsibilities

collection, aggregation, analysis and reporting of comparative census and archival data concerning relationships between income, race and third level degree qualification education in South Africa and Israel

Policy Researcher - Intern
Office of Environmental Planning and Assessment
New York City Department of Environmental Protection (NYC-DEP)
Queens, NY, USA.
Jan. - May, 1997

Responsibilities

detailed policy analysis of selected policy reform suggestions received into the DEP during a citizen feedback initiative; conducting interviews with DEP staff, DEP clients, and citizen who had made suggestions; comparative study of federal, state and city environmental protection laws; development of formal policy recommendations regarding how to respond to the received suggestions; review, analysis and reporting of research results; preparation of the a summary report for presentation to the DEP Commissioner

Junior Research Scientist
Institute for Economic Analysis
Robert F. Wagner Graduate School of Public Service
New York University, New York, NY, USA
Jan., 1996 - Jan., 1997

Responsibilities

undergraduate level lecturing on introductory macro- and micro-economics at the New Jersey Institute of Technology; large database data manipulation of time series livestock and rainfall data for the country of Namibia; design and execution of time series/group aggregated linear and simple statistical analyses; production of statistical and analytical reports

Rutgers University

Douglass College, New Brunswick, NJ, USA.

B.Sc. / B.A. Candidate

Political Science (with two years of Biochemistry)

Sept., 1987 - May, 1991: *Graduated May, 1991, with honours*

Cumulative Grade Point Average: 3.3

n.b. *This GPA includes two years of Biochemistry study, where the typical GPA is 2.0. At the conclusion of my second year of Biochemistry studies, with grades that were more than satisfactory for continuation of my studies, I made a decision to change my major to Political Science. I made this decision because it was not possible for me to pursue study of either dormant nucleotide activities or industrial ecology as a student of biochemistry. Finding this to be surprising and unfortunate, I switched my major to Political Science in an effort to try to understand why these avenues of enquiry were not available at that time: a question I continue to explore up to today.*

PhD Students

Universitat Autònoma de Barcelona

L'Institut de Ciència i Tecnologia Ambientals

Mr. Jose Carlos Silva Macher *due to submit dissertation in May, 2014*

co-supervised with Prof. Joan Martinez Alier

Topic: *International Trade at the Commodity Frontier and its impacts on the Peoples and Ecology of the Peruvian Amazon*

Dr. Arnim Scheidel *successfully defended in June 2013*

co-supervised with Prof. Mario Giampietro and Dr Jesus Ramos Martin

Topic: *New challenges in rural development: A multi-scale inquiry into emerging issues, posed by the global land rush*

Dr. Sara Latorre *successfully defended in Nov., 2013*

co-supervised with Prof. Joan Martinez Alier

Topic: *Struggles over accumulation by environmental dispossession in the periphery of the capitalist global economy: the case of Ecuador*

Dr. Jampel Dell'Angelo *successfully defended in Dec., 2013*

co-supervised with Prof. Mario Giampietro and in collaboration with Prof. Vincenzo Naso of La Sapienza Università di Roma.

Topic: *Abusing the Commons? an integrated Institutional Analysis of Common-pool Resource Governance in Conflict Situations*

Humboldt-Universität zu Berlin

Faculty of Agriculture and Horticulture,
Division of Resource Economics

Mr. Shigeo WANTANABE [due to submit dissertation in Apr., 2014]

co-supervised with Prof. Konrad Hagedorn and Prof Martina Padmanahban

Topic: *Aspirations and Effects of Access and Benefit Sharing Agreements:
a Grounded Theory driven case study of Women's Marula Collectives in northern
Namibia*

Ms. YU Lu [due to submit dissertation in summer 2014]

co-supervised with Prof. Konrad Hagedorn

Topic: *Risk Perception, Institutions and Adaptation to Climate Change in the northern
Drylands of China*

Mr. NGUYEN Minh Dao [due to submit dissertation in summer 2014]

co-supervised with Prof. Konrad Hagedorn

Topic: *Commercialisation of Agriculture, Payment for Ecosystem Services and the
Dynamics of Deforestation in the Son La Province of Vietnam*

Ms. Ruhi Gandhi [due to submit dissertation in summer 2014]

co-supervised with Prof. Konrad Hagedorn

Topic: *Food Security, Adaptation and the Vulnerability of the peri-urban Poor of
Hyderabad due to Climate Change and Rapid Urbanisation*

Invited Lectures

Expert Commentator on “Challenges to and opportunities for biodiversity science-policy interfaces: An exploration of knowledge integration in the context of economic approaches” *Special Workshop of the FP7 Project INVALUABLE Integrating Valuations, Markets and Policies for Biodiversity and Ecosystem Services*, Albert-Ludwigs-Universität Freiburg, 3-4 Mar., 2014.

“Critical Theory and Methodology: Political Studies of Social Ecological Systems”

Keynote Lecture to be presented at the conference *The Intersection of Society and Nature in Sustainability Research* Centre for Sustainable Development, Uppsala University, Uppsala, Sweden. 1-3 Oct., 2013.

“Scale in environmental governance: conceptual wrap-up” *ReSET Summer School on Scale in Earth System Governance: Local Case Studies and Global Sustainability*, National University of Siberia, Krasnoyarsk, Russia. 26.Jul., 2013.

“The Anthropocene and Rudolf Bahro’s Megamachine” Invited Lecture presented at the Seminar *Aktuelle Fragen der Umweltethik*, Lehrstuhl Philosophie und Ethik der Umwelt, Prof. Dr. Konrad Ott, Philosophische Fakultät, Christian-Albrechts-Universität zu Kiel, 3 June, 2013.

“Interdisciplinary research for post-normal science: exploring the relevance of interdisciplinary approaches for sustainability” Invited Teaching Lecture presented at the *PhD Course Methodological Approaches to Interdisciplinary Research* Centre for Sustainable Development, Uppsala University, Uppsala, Sweden. 27. May, 2013.

“Studying socio-ecological systems: walking forward together using critical theory” Invited Lecture presented at the *Studying socio-ecological systems Conference preparation workshop*, Centre for Sustainable Development, Uppsala University, Uppsala, Sweden. 3 Nov., 2012.

- “Science Policy and Science Media Interfaces” Invited Teaching Lecture presented at the *ReSET Summer Course, Governance of Global Environmental Change*, Pskov, Russia, 10 Aug., 2011.
- “Ecology and Society: sustainability and the issue of fit” Invited Teaching Lecture presented at the *Thor Heyerdahl summer school in Environmental Governance*, Noragric, Norwegian University of Life Sciences (UMB), 23 Jun., 2011.
- “Climate Science Theory/Methodology: experimental existentialism and Parliaments of Things” Invited Workshop Intervention toward the event *Postnormal science: the case of climate science*, Helmholtz Center Geesthacht, Institute of Coastal Research, University of Hamburg, 4-6 May, 2011.
- “The Economic Worth of Ecosystems: thinking through the values in human / non-human nature relationships” Keynote Speech for the Alter-Net Workshop *Governance of ecosystem services: What kind of research is needed to support fair decisions?* Cemagref, Antony, Paris, 7-8 Dec., 2010.
- “Scientific Expert Groups as Global Political Economy Networks” Invited Participant to the Invitation-only Symposium *Knowledge Networks and Policy Communities in the Global Political Economy*, The Watson Institute for International Studies, Brown University, Rhode Island, USA, 21-23 Jun., 2010 [not realised due to irresolvable scheduling conflicts].
- “The Politics of Science: choices and responsibility” Invited Teaching Lecture presented at the *Environmental Conflicts Summer School 2010*, Universitat Autònoma de Barcelona, L'Institut de Ciència i Tecnologia Ambientals, Barcelona, Spain, 28 June - 3 July, 2010.
- “Challenges in Interdisciplinary Environmental Science Methodology” Invited Lecture presented at the *International Conference on Sustainability Science*, University of Rome, Italy, 23-25 Jun., 2010.
- “Politics, Purpose and Production: scholars, methods and material realities” Invited Lecture presented to the *Department of Landscape Ecology and Environmental Ethics at the University of Greifswald*, Greifswald, Germany, 7 Jan., 2010.
- “Dignity, Livelihood and Curatorship: some thoughts on the potential consequences of arranging payment for non-cash economy ecosystem management activities” Invited Lecture presented at the Special session on ‘International Payments for Ecosystem Services,’ convened by the United Nations Environment Programme, during the 10th Meeting of the International Society for Ecological Economics, *Applying Ecological Economics for Social and Environmental Sustainability*, Nairobi, Kenya. 7-11 August 2008.
- “Teaching Sustainability Science Methodology: a challenge for the future” Invited Teaching Lecture presented at the Summer Course *Making world sustainable: integrating multidisciplinary thinking and emerging research areas into academic curricula* Central European University, Department of Environmental Science and Policy, Budapest, Hungary, 6-15 July 2008.
- “Empirical Research Methods for Studying the Effectiveness of Multi-Level Environmental Governance Institutions” Invited Teaching Lecture presented at the *GoverNat (FP6 Marie Curie Training Network) Spring Training Workshop*, Aarhus, Denmark, 4-10 Apr., 2008.
- “Mud and the Mona Lisa: pathways between description and prescription” Invited Lecture presented at the Associated Special Workshop *Mixing Things Up: a compassionate contestation of relationships between lay and expert knowledges*, Centre for the Study of Environmental Change, University Lancaster, UK, 19 Mar., 2008.

- “Science, publics and policy in biodiversity: Bridge to users of Taxonomy” Keynote Lecture presented at the Annual General Meeting of The European Distributed Institute of Taxonomy (EDIT), *Taxonomy at a crossroads: science, publics and policy in biodiversity*, Carvoeiro, Portugal, 23-24 Jan., 2008.
- “being ALIVE: an experiment in multi-level environmental governance evaluation” Invited Lecture presented at the Second Workshop of the GovernNat Marie Curie Training Network, *Principles of Participation and their Relevance in GovernNat*, Universidade Nova de Lisboa, Lisbon, Portugal, 21-22 Jan., 2008.
- “Heeding Hippocrates: a contribution to the critique of the pragmatic defence of monetary valuation” Invited Lecture presented at the GARNET Network of Excellence Workshop *Monetisation in Global Environmental Governance*, Free University of Berlin, Berlin, Germany, 18-20 Jan., 2008.
- “Inter-disciplinary Deliberative Democracy: a theory of Collective Ecological Management” Invited Lecture presented at the Dutch Research Institute for Transitions (DRIFT), Erasmus University Rotterdam, the Netherlands. 12 February, 2007.
- “21st Century Science: Rising to the Challenge” Visiting Expert Invited Lecture at the European Commission - Joint Research Centre, Institute for the Protection and Security of the Citizen, Knowledge Assessment Methodologies, Ispra. Italy 21-23 March, 2007.
- “Towards a Sustainable Built Environment: some potential applications of Ecological Economics to support European policy making” Invited Lecture presented to the *Expert Workshop on Infrastructure / Built Environment* of FORESCENE [FP6 8.1 project - Development of a Forecasting Framework and Scenarios to Support the EU Sustainable Development Strategy], Budapest, Hungary. 26-27 October, 2006.
- “Nurturing Nature: everything you never wanted to know about genetic engineering and a few related points” Invited Lecture presented at the Department of Botany at the National University of Ireland, Galway, Ireland, 14 Apr., 2005.
- “Interdisciplinary methods and the integration of ecological, political and economic scales: when the language of math becomes a unitless scaler and some related consequences” Invited Keynote Contribution to the electronic conference *Landscape scale biodiversity assessment, the problem of scaling*, 7-23 March, 2005 (<http://www.nbu.ac.uk/biota/e-conference.htm>).
- “Redefining Democracy: A Discussion on the Relationship between Democratic Forms of Governance and the Principles of Environmental Politics” Invited Lecture presented at the *Green Living Fair*, The Wildfowl and Wetlands Trust Castle Espie, Co Down, Northern Ireland, 8 Sept., 2002.
- “The Politics of Pigslop” Invited Lecture presented at the conference *Ensuring a Sustainable Future for Urban Environments*, Industry Centre, University College Dublin, Dublin, Ireland, 12 Dec., 2001.

Teaching Experience Overview: Bachelors, Masters and PhD Levels

Bachelors Level Teaching Experience

Humboldt-Universität zu Berlin

Faculty of Agriculture and Horticulture,
Division of Resource Economics,
Unter den Linden 6,
10117 Berlin, Germany.

Supervision of Bachelors Student Thesis Projects

Mr. Nicolas Merz – to commence in Apr., 2014

Topic: *Ökologische Ökonomische Bedingungen eines Gleichgewichts zwischen Gemuseanbau und Tierhaltung im Überflutungsgebiet Mbeya, Tansanien*

Ms. Katrin Sailer – to commence in Apr., 2014

Topic: *Biofuel Herstellung aus Restmaterialen: ein Flow/Fund Analyse des Umweltschutzpotenzials der Herstellung von Biofuel beim Ackerbau*

Mr. Daniel Schau – successfully defended Feb., 2014

Topic: *Externalitäten des Bergbaus und der Bergbaufolgelandschaften: Ein Vergleich der Sozialkosten bei Entstehung und Beseitigung von Umweltschäden in Bitterfeld*

Ms. Juliane Baumann – successfully defended in Aug., 2013

Topic: *Ökologische und ökonomische Analyse von Agroforstsystemen in Katalonien*

Umwelt- und Ressourcen Ökonomie I

(Introduction to Environmental and Resource Economics)

Primary Lecturer / Assistant to the Head of the Division

Spring Semester 2010; 2011; 2012; 2013; 2014

Responsibilities

Preparation and Presentation of Lectures, in German (4 hours weekly for 10 weeks); Design and Provision of the Content for the Course's Moodle e-teaching Website (with the Assistance from the Course Tutor); Preparation of Examination Questions, in German; Grading of Examination Essays, in German; Student Support; Supervision of the Course Tutor

Course Content

This is a mandatory introductory course that is attended by all students studying for a Bachelors Degree in either Agricultural or Horticultural Sciences at the Humboldt-Universität zu Berlin. Enrolment is generally on the order of 150-200 students and all lectures are conducted in German. The teaching takes place once a week, for four hours, and is supported by mandatory and supplementary reading and current events information links, which are all provided to the students via the e-teaching platform Moodle. The thematic content of the course is specified by Prof Konrad Hagedorn and adjusted periodically by me, in consultation with him, in order to keep in line with state-of-the-art research and current events. The core teaching themes are: (i) Introduction of the Relationships between Economy and Ecology; (ii) Introduction of the central Principles of Environmental and Resource Economics; (iii) Public Goods, Externalities and Property Rights; (iv) Goals of Environmental and Resource Politics; (v) The System of National Accounts from an Environmental Economics Perspective; (vi) Legislative and Economic

Instruments of Environmental Politics; (vii) Environmental Valuation Techniques; (viii) The Economics of Water Use.

Brückenmodul: Die Alternative und die Logik der Rettung
(Bridging Module: The Alternative and the Logic of the Rescue)
Lecturer / Course Convenor
Fall Semester 2012; 2013

Responsibilities

Selection of Readings; Moderation of Seminar Discussion (2 hours weekly for 10 weeks); Supervision of Student Presentation Preparations; Evaluation of Student Assignment three Page written Essay.

Course Content

This is an optional module designed to provide first year Bachelors students with insights into the academic study area of environmental and resource economics. Enrolment is small (between 3 and 10) students and is limited to no more than 15. The course consists of guided reading of selected sections of the two major texts of the green political economy philosopher Rudolf Bahro (*Die Alternative* und *Logik der Rettung*). Weekly meetings are organised based on a discussion format and students are required to produce a presentation and brief written assignment at the close of the course, for evaluation purposes.

New Jersey Institute of Technology (NJIT)

Department of Economics,
Newark, New Jersey, USA.

Introduction to Economics
Replacement Lecturer / Lecturing Assistant
Spring Semester 1996; 1997

Responsibilities

As part of my duties as assistant to Senior Scientist Dr. Glenn-Marie Lange, at the Institute for Economic Analysis, New York University, who also had teaching duties at the NJIT, I presented several pre-planned introductory economics lectures that had been prepared by Dr. Lange. The lecturing was occasional, taking place when she was out of the country conducting field research.

Course Content

The NJIT is a leading technical university in the New York metropolitan area and this course was a basic, introductory foundation economics course, taught to a student body undertaking mainly BSc studies in applied engineering. The topics addressed consisted of the conventional economics study themes of supply and demand, marginal costs and revenues, income and profit.

Masters Level Teaching Experience

Central European University

Department of Environmental Science and Policy,
Nador ut 9, 1051 Budapest, Hungary.

Introduction to Environmental Economics,
Lecturer / Course Convenor
Fall Semester 2009; 2010; 2011; 2012

Responsibilities

Design of the Course Content; Preparation and Presentation of Lectures (15-20 hours of Lecturing over a 2-4 week period); Design and Provision of the Content for the Course's Moodle e-teaching Website; Direct and electronic Student Support; Design and Evaluation of Student Assignments and Final Examination Essay

Course Content

This is a mandatory introductory course attended by students registered for both the Environmental Science Masters and the Erasmus Mundus Masters course in Environmental Sciences, Policy and Management. The teaching takes place in teaching blocks of 2-4 consecutive days and is supported by student teacher conferences (both in person and online), mandatory and supplementary reading and current events information links, which are all provided to the students via the e-teaching platform Moodle. The thematic content of the course is adjusted periodically, in order to keep in line with state-of-the-art research and current events. The course is designed to provide students with a basic knowledge of the general fields of Ecological and Environmental Economics, with a focus on their contribution to design and implementation of environmental policy. The teaching for this course is divided into three learning steps: (1) Basic Principles of Economic Analysis; (2) Environmental Economics and Decision Making; and (3) Values and Valuation of the Economic Worth of the Environment.

Environmental Economic Instruments,
Lecturer / Course Convenor
Spring Semester 2009; 2010; 2011; 2013; 2014

Responsibilities

Design of the Course Content; Preparation and Presentation of Lectures (15-20 hours of Lecturing over a 2-4 week period); Design and Provision of the Content for the Course's Moodle e-teaching Website; Direct and electronic Student Support; Design and Evaluation of Student Assignments and Final Examination Essay

Course Content

This is a mandatory advanced course for selected students registered in the Erasmus Mundus Masters course in Environmental Sciences, Policy and Management. The purpose of the course is to provide students with a basic understanding of the various types of economics oriented environmental policy instruments discussed in the academic environmental economics literature and employed by policy makers on the ground in democratic societies. Conceptual and applied review of three basic types of economics oriented environmental policy instruments - Performance Related Standards (or Command and Control); Taxation & Subsidy; and Market Based Instruments - forms the basis for the course, which is intended to complement and to draw upon learning in policy analysis undertaken in other modules of the Masters course.

Queen's University Belfast

Gibson Institute for Land, Food & Environment,
3 Lennoxvale, BT9 5BY, Northern Ireland.

MSc in Leadership for Sustainable Development (SD),
Science and Sustainability Strand,
Lecturer / Seminar Convenor
Spring Semester 2006; 2007

Responsibilities

Design of Course Content; Design of the Course Content; Preparation and Presentation of Lectures (20 hours of Lecturing over 2 separate weeks); Recruitment and organisation of a 'Science and Sustainability' Expert Panel convened to join the students in exploring lessons learned and questions raised during the internship placements

Course Content

This was a one year MSc program oriented toward giving practitioners and recent graduates the skills and understanding to serve as leaders in the environmental governance of Northern Ireland. It supported students pursuing career paths within public administration, politics, business, non-profit organisation work and academia. The course included both lectures and a placements program. Lectures were designed with a seminar format, and the seminar I conducted addressed the role of science and scientists in sustainable development. Topics addressed in the Science and Sustainability Strand were: the special role of science in sustainability / Rachel Carson and the double edged sword of industrialisation; inter-disciplinarity, expertise, planning and policy; History of Science – from Archimedes to Copernicus to Descartes and Newton; Philosophy of Science – Bacon, Goethe, Kuhn and beyond; Leadership in Science – Kuhn, Latour, Gould, Einstein and Poincare; Placing the teaching in the context of the MSc in Leadership for SD by meeting with Sustainable Development experts in a panel and discussion seminar format.

The New School for Social Research

Robert J. Milano Graduate School of Management and Urban Policy
66 West 12th Street, New York, NY, 10011, USA.

Quantitative Methods of Statistical Analysis,
Teaching Assistant / Assistant to the Lecturer
Spring Semester 1996; 1997

Responsibilities

Design, Co-ordination and Moderation of Tutorials; Training Students in the Use of SPSS Statistical Analysis Software; Design and Provision of Remedial Mathematics and Computer Skills Instruction; Grading of Course-work and Examination papers; and occasionally Presentation of Lectures prepared by the Course Lecturer.

Course Content

The Milano Graduate School is part of the New School University system and is the most applied school within the university, having a focus on management and policy, with specialisations in urban studies, health care and non-profit management. This was a mandatory course for all Masters students at the school and was designed to give them a basic command of and ability to read the statistics commonly used in policy analysis. Statistical analysis subjects included: measures of central tendency; frequencies, standard

deviation and correlation; goodness of fit and linear regression analysis; data management and manipulation; chart creation and reading; error and sensitivity analysis and reporting; and use of the statistical analysis software package SPSS.

PhD Level Teaching Experience

Universitat Autònoma de Barcelona

L'Institut de Ciència i Tecnologia Ambientals,
08193 Bellaterra, Barcelona, Spain.

Direct Supervision of PhD Students
(for details please see PhD Students)
2009; 2010; 2011; 2012; 2013; 2014

Discourse Analysis Session of the *Specialized Intensive Course on Research Design and Methods in Political Ecology*, Entitled - FP7 Marie Curie Research Training Network, Barcelona, Spain. 2-7 June, 2013.

Lecturer
Spring Semester 2013

Responsibilities

Design, Co-ordination and Moderation of the Seminar; Selection of Course Readings; Preparation and Presentation of Lectures

Course Content

This one day long lecture was part of an intensive PhD methods course covering both theoretical and applied questions of research design with a particular focus on the challenges associated with conducting activist oriented, normative research, such as is normally the case in the field of political ecology. The teaching themes of this Discourse Analysis session were: what is discourse / modernist and post-modern conceptions: verbal, social, symbolic, physical, spatial; modern and post-modern conceptions of the place of discourse analysis in social study, a brief introduction to the idea of discourse in the works of Foucault, Habermas and Hajer; source materials for empirical discourse analysis and what is involved in collecting them, periodicals, mixed media, internet statements, legal and protocol documents, formal political statements, interviews; data collection and processing techniques: using the empirical case of the discourses leading up to, and operating within and around the Intergovernmental Platform on Biodiversity & Ecosystem Services (IPBES); internet, archives, interviews; software based analysis - atlas-t/spss/cloud analysis; theory based structuring of research questions and data collection; grounded theory vs. data analysis, choosing between modernist and post-modern approaches; selecting a point of focus - statements, words, and/or argumentation cum narratives; relating data to theory - linking statements to actors, linking statements to relationships, defining explanatory objectives.

Ecofeminism Seminar

Lecturer / Course Convenor
Spring Semester 2010; 2011; 2013

Responsibilities

Design, Co-ordination and Moderation of the Seminar; Selection of Course Readings; Preparation and Presentation of Lectures

Course Content

This seminar course was also open to Masters Degree students. The idea behind this seminar was to provide a general introduction to the literature on feminist economics and a more detailed elaboration of selected related works by selected ecological economists. The format was a mixture of lecture and discussions, based on required readings, held over a three week period, addressing: alternative voicings, new approaches and synthetic creativity to be found in the forward looking work of feminist economists, including the voice and visions of ecofeminism; review of the approaches and topics of selected ecological economists working from an ecofeminism perspective, including Vandana Shiva, Sabine O'Hara, Mary Mellor and Ariel Salleh; participant presentations on how ecofeminism relates to their current, past, or planned research; a final general discussion of how the concepts and tools of this discourse might enhance or enrich individual and collaborative academic work.

Political Theory Seminar

Lecturer

Spring Semester 2010

Responsibilities

Design, Co-ordination and Moderation of the Seminar; Selection of Course Readings; Preparation and Presentation of Lectures

Course Content

This seminar course was also open to Masters Degree students. The idea behind the seminar was to provide a general introduction to political studies, including basic principles about forms of government, types and manifestations of power and oppression and tools for conducting analysis of political systems. The seminar was held over a three week period and consisted of lectures illustrating various historic and contemporary manifestations of power and oppression deriving from both within and outside of political and state authorities, including illustrations of power giving rise to liberation and exploring the question of how power and oppression come to pass and what they may bring into being, finally, moving to a discussion format, with participants presenting, for discussion, problematques of power and oppression arising in their areas of empirical research.

Humboldt-Universität zu Berlin

Faculty of Agriculture and Horticulture,

Division of Resource Economics,

Unter den Linden 6, 10117 Berlin, Germany.

Direct Supervision of PhD Students

(for details please see PhD Students)

2011; 2012; 2013; 2014

Doctoral Certificate Program in Agricultural Economics

Ph.D. Module Theory, Analysis and Empirical Study of Institutions and Organisations

Part 1 – Approach, Frameworks and Theories

Lecturer

Fall Semester 2009; 2011; 2013

Responsibilities 2009, 2011 and 2013

Lecturing on History and Philosophy of Science; Lecturing on Inter- and Transdisciplinary Research Methodology

Additional Responsibilities in 2011

Lecturing on Theory of Political Economy; Participation in the Moderation of the Course; Facilitation of Applied Work Sessions

Course Content

This Module is part of the national Doctoral Certificate Program in Agricultural Economics, coordinated across 11 major universities in Germany, each of which has Ph.D. students working in the area of Agricultural Economics. The aim of the Module is to ensure that students are familiar with: the overall problem-based and transdisciplinary approaches to research, the role of institutions and organisations in social-ecological interactions, theories and frameworks which are used for researching and analysing institutions and organisations; that they are able to discuss theoretical concepts and implications of frameworks, to use these theories and frameworks in order to design research; that they are familiar with selected methodological approaches to researching institutions and organisations and are able to reflect on and discuss their own work and that of colleagues in the light of the contents of the course and overall doctoral research.

Promotionskolleg Agrarökonomik Ph.D. Module Theory, Analysis and Empirical Study of Institutions and Organisations

Part 2 – The scientific process and methods

Lecturer

Fall Semester 2010; 2012

Responsibilities 2010 and 2012

Lecturing on the Concept of Post-normal Science and its Implications for Research Design; Lecturing on Q-Methodology and its Application to the Study of Environmental Economics Questions

Additional Responsibilities in 2012

Lecturing on Gender Issues in Empirical Research; Lecturing on Data Analysis Techniques; Coordination of Course Planning and Execution; Moderation of the Course; Design and Facilitation of Applied Work Session and Discussion Sessions; Coordination of Student Assignment Work and Student Evaluations

Course Content

This Module is part of the national Doctoral Certificate Program in Agricultural Economics, coordinated across 11 major universities in Germany, each of which has Ph.D. students working in the area of Agricultural Economics. The aim of the Module is to ensure that students: are familiar with basic issues in philosophy of sciences, basic issues in social-ecological research; learn about and discuss issues and problems related to the social science research process; become familiar with selected methodological approaches to researching institutions and organisations, i.e. case studies, experiments and with both qualitative and mixed methods approaches and data analysis; that they learn to reflect on and discuss their own work and that of colleagues in the light of the contents of the course and of their overall doctoral research objectives.

Details of Previous Academic and Research Appointments

Universitat Autònoma de Barcelona, L'Institut de Ciència i Tecnologia Ambientals,
08193 Bellaterra, Barcelona, Spain.

Investigative Researcher

Sept., 2009 – May 2012

Responsibilities

Investigative research, in collaboration with Prof Louis Lemkow, on possibilities for strengthening the theoretical depth and epistemological robustness of inter- and transdisciplinary collaborations between social and physical scientists at L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, and between them and political actors in Catalonia, Europe and internationally.

Investigative research into the theoretical economics work of Nicholas Georgescu-Roegen, its relationship to the Multi-scale Integrated Assessment of Social-Ecological Metabolism (MuSIASEM) approach developed by Professors Mario Giampietro and Kozo Mayumi, and the development of theoretical links between this work and the research of Professor Joan Martinez-Alier, which also builds in part on the theory work of Georgescu-Roegen, concerning relationships between exploitation, oppression and social metabolism.

In the course of this investigative work, and in conjunction with the inter- and transdisciplinary methodology research that I am now developing in collaboration with Prof Lemkow, I built the interactive website ourenergyfutures.org. This project was undertaken in collaboration with Prof Giampietro, and with the help of Ms Barbara Rinaldi, a professional web-developer. The website was designed to provide a dialogue and instruction platform to prepare students from 11 Catalan secondary schools to participate in a public conversation with international experts in the field of energy futures, which was held during the course of an international scientific conference on the subject, that was being convened in Barcelona at that time. The web-site (which continues to operate, with a revised format, under the supervision of Prof Giampietro) and the associated public event, which was held at the Cosmocaixa Science Centre in Barcelona, served as an experiment in the design and operationalisation of post-normal science extended peer-review.

(for further details please see Events Organized, under Professional Activities)

Grant Application Preparation

SUDOKU- Sharing Understanding of multi-Dimensional environmental problems by Organising complex Knowledge within Understandable Assessment Structures
(The proposal met the technical standard but was, in the end, not funded.)

Scientific and Logistical Assistant to Prof. Mario Giampietro, Lead Applicant
Contributing Researcher

Other Partners:

Charles University, Czech Republic; Wuppertal Institute for Climate, Energy and Environment, Germany; Institute of Social Ecology, Alpen-Adria Universität Klagenfurt,

Graz & Wien, Austria; Parthenope University, Italy; Vrije Universiteit Amsterdam, The Netherlands.

The purpose of the project was to explore the technical and political requirements associated achieving drastic changes in the metabolic rate of the world economy. The project began from the proposition that one of the reasons behind the failure of the recent Climate Summit in Copenhagen can be found exactly in the lack of a systemic understanding of the relations between the structural changes which should be expected in the metabolic pattern of societies and the positive or negative impacts associated with anthropogenic global environmental change. As an alternative to simplification of problems, to make them politically salient, this project proposed to develop a multi-scale collaborative research initiative, working with political authorities in each of the partner's countries, in order to design, build and run complex social ecological metabolism models that concretely explore both how it can be materially and politically possible to reduce overall material and energetic throughput in the economies of European democratic societies.

Humboldt-Universität zu Berlin, Faculty of Agriculture and Horticulture, Division of Resource Economics, Unter den Linden 6, 10117 Berlin, Germany.

Guest Researcher

Nov., 2008 – Oct., 2010

Responsibilities

Informal Supervision of PhD Students

During the period of my affiliation with the Division, prior to my official appointment as an assistant to Prof Hagedorn, Chair of the Division, I attended, where possible, the weekly academic seminar of the Division, and provided critical feedback to PhD students on their research plans and publications. I also took direct, although informal responsibility for assisting two students with the development of their PhD research funding applications. Both students received funding for their studies and one of them has subsequently been registered as a student under my supervision.

Investigative research on theory of institutions within the discourse on ecological economics, with a particular focus on the potential contributions that could be made to this discourse by drawing on the works of the East German political philosopher Rudolf Bahro.

University of Aarhus, National Environmental Research Institute of Denmark (NERI), Department of Policy Analysis, Grenåvej 14, 8410 Rønde, Denmark.

Senior Researcher

THRESHOLDS: Thresholds of Environmental Sustainability

EU Sixth Framework Programme Integrated Project (Contract No. 003933)

Nov., 2008 - May, 2009

Responsibilities

The main work of this appointment was to conduct a six month post-mortem study endeavouring to make sense of the vast array of diverse materials generated over the course of the four year long ecological economics oriented European Union funded

Integrated Project *Thresholds of Environmental Sustainability (Thresholds)* [Sixth Framework Programme, Project Contract No. 003933] and to prepare a summary analysis report, which was included as a final deliverable of the project; additional responsibilities included periodic scientific presentations at Institute seminars, advising students and researchers at the Institute on matters of inter- and transdisciplinary research methodology and conducting detailed empirical study of the social-ecological dynamics of one of the cases studied in the Integrated Project, in order to develop a fuller understanding of the objectives and challenges of the research that I was appointed to evaluate.

In the *Thresholds* project both ecological and economic dimensions of regime shifts in coastal ecosystems were formally studied, with a view to developing general theory concerning thresholds and to providing policy advice regarding strategies for the avoidance of undesirable regime shifts in coastal ecosystems and the creation of desirable ones (generally with the aim of returning a collapsed system to an earlier stability state that was either more desirable to the local community or deemed to be more natural or desirable from a conservation point of view). A summary report was generated for the project team and included as a *Thresholds* project Deliverable. That report is now undergoing revision in preparation for submission for publication. The aim of that paper is *not* to generate summary policy recommendations or advice based on the conclusions of *Thresholds* but to reflect upon some of the methodological and theoretical challenges that came up in the course of carrying out the complex inter-disciplinary work of the project. In this respect, the work I carried out constituted a meta-analysis of the results of the project, tightly focused around the general problematique of the research field of ecological economics. Although the main work of this study and the associated paper is theory development, the topic at hand is so big and its complexity so central to the discussion that occasional reference to empirical case situations is advisable, in order to avoid floating away into total abstraction. To keep the arguments down to earth, an empirical study of the *Thresholds* case study area Ringkoebing Fjord (on the western coast of the Jutland peninsula in Denmark) was carried out. Arguments developed in the report and subsequent paper are elaborated from time to time through reference to this single case, which can be understood as an archetypical social-ecological coastal ecosystem complex, with associated collected data presented for theory illustrative as opposed to empirically evidential purposes.

The Helmholtz Centre for Environmental Research – UFZ, Department of Social Sciences, Urban Environmental Sociology Unit, Permoserstr. 15, D-04318 Leipzig, Germany.

Senior Researcher

Apr., 2008 - Oct., 2008

Responsibilities

During this appointment I was engaged in conducting research associated with finalising and preparing the results of the ALIVE research (please see below for details of the ALIVE research project) for publication, including identifying how and where these results could be published within the academic discourses on political studies, ecological economics and sustainability science.

Organisation and establishment of a methodology consultation platform within the Department of Social Sciences at the UFZ, which offered the service of providing social science feedback to inter- and transdisciplinary teams working at the Institute, regarding the potential reasons for difficulties they were encountering within their teams and in their

participatory research environments. This approach has subsequently been expanded into a research area within the team where I was working, which is now the Department of Environmental Politics.

The Helmholtz Centre for Environmental Research – UFZ, Department of Social Sciences, Economics Unit, Permoserstr. 15, D-04318 Leipzig, Germany.

Marie Curie Intra-European Fellow (EU Contract EIF - 024688)

ALIVE: Accountability and Legitimacy of Governance Institutions that support Viable Environments

Jan., 2006 - Mar., 2008

Responsibilities

Administration of the ALIVE research contract and budget, in collaboration with the supervising investigator, Prof. Christoph Görg

Presentation of ALIVE research results at academic conferences and publication of results in peer-reviewed journals

Participation in seminars and regular meetings of the Department of Social Sciences

Participation in the Local Organizing Committee for the 7th Biennial Conference of the European Society for Ecological Economics

Execution of the ALIVE Research

The ALIVE research was an empirical investigation of collaborations taking place at the boundary between environmental science and environmental politics. The broad aim of the work has been to help develop a better picture of the relationships between various scientific and non-scientific perspectives that contribute to local, regional, national and EU level environmental governance in Europe. The empirical data for the ALIVE research was eight cases: seven cases are interdisciplinary, participatory, environmental policy oriented research projects based at the UFZ (these projects were concerned with land use change and rehabilitation in the lignite mining and carbon chemical manufacture regions of Saxony and Saxon-Anhalt in Germany, and with the implementation of the European Water Framework Directive in eastern Germany) and one case study is a reflexive ethnography study of the UFZ social science research department, where the ALIVE research itself was based. This eighth case study was not originally part of the ALIVE research plan but eventually became integral to the project's methodology.

Data collection methods for the ALIVE research included semi-structured interviews, questionnaires, non-participant and participant observation, reflexive ethnography and document review. A data encoding system that combines an epistemic taxonomy (based on the developmental psychology theory of Multiple Intelligences) with conventional political science institutional and discourse analysis was designed to identify the multi-level governance positioning and epistemological perspectives of the actors, institutions and decisions found in the ALIVE case studies.

The results of the ALIVE research indicate that institutionally tagged, epistemological profiles developed can be effectively employed to trace synergies and conflicts between the interventions made by actors coming from different sides of the science / policy

interface. The results suggest that there may indeed be epistemological pressures at play in the projects studied, which may disadvantage some actors by pushing them to use ways of knowing that are not familiar or comfortable for them and which may advantage other actors whose epistemological comfort zones are more compatible with the ways of knowing used in project work and discussions. Further analysis of the ALIVE data is ongoing publications reporting on both the epistemological profile and the reflexive ethnography results of the research are in preparation.

Long-term work supported by these data and results includes ongoing interpretation of their implications for (1) the development of transdisciplinary sustainability science methodology and (2) for the improvement of institutional structures of European and international multi-level environmental governance.

Queen's University Belfast, Gibson Institute for Land, Food and Environment, Belfast, BT7 1NN, Northern Ireland, UK

Visiting Research Fellow

Jan., 2006 - Dec., 2007

During this period I collaborated with staff at the Institute in the design and development of the MSc in Leadership for Sustainable Development, which commenced to offer degrees study opportunities in 2006.

Lecturer on Science for Sustainable Development

MSc in Leadership for Sustainable Development

Jan., 2006 - Dec., 2007

(for details please see Teaching Experience Overview)

Irish National Teachers Organisation (with the Heritage Council of Ireland), INTO Heritage in Schools Project, 35 Parnell Square, Dublin 1.

Heritage Specialist

Jan., 2001 - Dec., 2005

Responsibilities

The Heritage in Schools Project is a joint initiative between the Heritage Council and the Irish National Teachers Organisation. The scheme brings together primary school students with experts on Irish environmental and built heritage topics, raising awareness of Ireland's natural and cultural heritage while providing an innovative platform for organising general primary education instruction. Having researched Ireland's waste management history extensively for my Masters Degree dissertation, prepared at Trinity College Dublin, I visited primary schools throughout Ireland as a Heritage Specialist, discussing the ancient and recent history of waste management in Ireland, the Irish waste crisis at that time and possible solutions for the future. The lesson for each visit was: the waste that we create depends upon the way we live our lives. Activities included storytelling, category assignment group work, independent worksheet exercises and group play through arts and crafts.

Trinity College Dublin, Department of Civil, Structural and Environmental Engineering, Dublin 2, Ireland.

Departmental Librarian
Sept., 1997 - Oct., 1998

Responsibilities

Administrative Record Keeping of Book Loans; Use and Further Development of the Departmental Library Database; Cataloguing and Archiving of Dissertations and newly arriving Materials

Previous Non-Academic Employment

GreenCottage Consulting, 16 Daniel Street, Dublin 8, Ireland.

Environmental Policy Analyst, Green Business Management Consultant, Freelance Journalist and Researcher
Oct., 2000 - Sept., 2002

Activities Description

After making the decision to return to academia to pursue my PhD, while exploring opportunities for where and how I might accomplish that, I set up a small freelance research and consultancy enterprise and worked as a freelance journalist for a period of time. Areas of operation for the consultancy included expert advice concerning Waste Management & Minimisation; Regulatory Compliance with Packaging and Waste Packaging Law in Ireland; Pollution Prevention through Process Improvement; Environmental Management Strategy Development and Project Planning; Statistical Sampling & Analysis; Change Management and Project Implementation; Policy Analysis; and Specialised Research.

The final contracted project that I conducted during this period was co-ordination of all research, writing and publication activities associated with Ireland's Alternative Country Report to the Johannesburg World Summit on Sustainable Development: 'Telling it Like it is: ten years of unsustainable development in Ireland.' This report was mandated by the United Nations Environment Programme, in response to Ireland's failure to produce a country report, in compliance with the Rio 1992 Agreements, and was funded by the Irish Government, through the project specific NGO Earth Summit Ireland.

Repak Ltd., Statistics and Finance Department, Clondalkin, Dublin 22, Ireland.

Company Description

Repak Ltd. is a PRO-Europe (Packaging Recovery Organisation Europe) affiliated company and holds the 'Green Dot' copyright for Ireland and the United Kingdom. It is a voluntary, industry lead, government approved waste packaging recovery scheme. Packaging statistics reported to Repak by its members are used to assess member fees, which constitute the company's core revenue stream. Core company activities are packaging data administration and funding the recycling of waste packaging. Member packaging statistics also form the basis for Repak's regular reporting to the Irish Government, which in turn contributes to Irish government's packaging and waste packaging data reporting to the European Union.

Statistical Co-ordinator

Aug., 1999 – Oct., 2000

Responsibilities

Company Policy and Management, team member; Statistical Support Services and Administration, team leader; key client support services; liaison to the Environmental Protection Agency; design of membership fee assessment and invoicing calculations; supervision of fee assessment and invoicing; statistical analysis and reporting

Data Manager and Statistician (part-time)

Nov., 1998 - July 1999

Responsibilities

creation of information management system for the administration of members' statistical submissions; development and implementation of membership training courses on statistical reporting; completion of statistical calculation software project already underway at the time of hire; administration of all statistical data and related materials; design of statistical submission forms and guidance documents; provision of member statistical support services; Local Area and Dialogue Network Administration

New School for Social Research, Office of Development and Alumni Relations, 66 West 12th St. New York, NY 10011, USA.

Fundraising Researcher

Aug., 1995 - Mar., 1996

Responsibilities

design, development and administration of a relational database of private university donor profiles; researching, writing and updating career and biographical profiles of prospective and continuing donors to the university, to be used by the Head of Department to support their work of managing relations with major donors and potential major donors to the university

Telefund Supervisor (full-time)

Sept., 1994 - July 1995

Telefund Unit Description

The New School is a unique university, comprising several completely independent institutions, each with an independently administered Alumni Association Annual Fund. The Telefund was responsible for soliciting and administering the processing of the initial and annual Alumni subscriptions for all five schools of the university through telephone based fundraising.

Responsibilities

direct supervision of a staff ranging between 5-10 fundraisers and from 2-5 administrative support personnel; liaison to university academic divisions; training of Trainers and Telefund Callers; supervision of administrative and calling activities; setting and achieving daily, weekly and monthly fund-raising targets; supervision of fund-raising-call script writing and revision

Telefund Supervisor (part-time)

Sept., 1993 - Aug. 1994

Responsibilities

development of performance and pledge-fulfilment tracking systems; administration of daily Telefund activities; supervision of administrative and calling activities; staff development, training and goal setting with Telefund Callers; script writing, including test calling; co-ordination of Telefund Caller and administrative staff recruitment

New Jersey Environmental Federation (NJEF), New Brunswick, NJ, USA.

Organisation Description

NJEF is a citizen funded grassroots lobby organisation, advocating state and federal legislation to preserve and safely manage environmental resources. All funding for NJEF's work is secured directly through private citizen donations. The phone canvass operation serves as a core means for communicating with membership about NJEF activities and as a primary funding resource for the organisation.

Senior Phone Manager

Nov., 1992 - July 1993

Responsibilities

Phone Canvass Management, team member; staff development and training of Phone Managers; liaison to Lobbyist and Organisers; supervision of all telephone fund-raising activities; start-up support for non-profit fund-raising projects throughout the United States

Phone Manager

Nov., 1991 – Nov., 1992

Responsibilities

Phone Canvass Management, team member; staff development and training of Trainers; supervision of training and administrative teams; periodic lead phone canvass operator; start-up and management of an off peak fund-raising shift; fund-raising-call script writing; on call support for Trainers during calling shifts; start-up support for non-profit fund-raising projects throughout the United States

Trainer

Aug., 1990 – Nov., 1991

Responsibilities

staff development and training; lead phone canvass operator; administration of daily crew records; preparation and presentation of daily pre-call-session training; fund-raising-call scripts writing and call testing; on call support for Callers during calling shifts; start-up support for non-profit fund-raising projects throughout the United States

Caller

Apr., 1990 – Aug., 1990

Responsibilities

daily phone-fund-raising as a phone canvass operator; achievement of daily and weekly phone fund-raising standards.

Professional Academic Activities

Peer Reviewer for Academic Journals

American Journal of Economics & Sociology;
Cambridge Review of International Affairs;
Capitalism, Nature, Socialism;
Ecological Complexity;
Ecological Economics;
Ecology & Society;
Ecosystem Services;
Energy – The International Journal;
Environmental Innovation and Societal Transitions;
Environmental Politics;
Environmental Science & Policy;
Journal of Environmental Policy & Planning;
Land Use Policy;
Science, Technology and Human Values;
Sustainability;
Omega: The International Journal of Management Science;

Peer Reviewer for Institutions

United States National Science Foundation (NSF);
International Human Dimensions Programme
on Global Environmental Change (IHDP)

Recent Scientific Committee Work

- ISEE 2010: 11th Biennial Conference of the International Society for Ecological Economics, Advancing Sustainability in a Time of Crisis, Bremen-Oldenburg, Germany, 22-25 Aug., 2010. - *member of the Central Conference Organising Committee; member of the Scientific Committee*
- ESEE 2009: 8th Biennial Conference of the European Society for Ecological Economics, Transformation, Innovation and Adaptation for Sustainability – Integrating Natural and Social Sciences, Ljubljana, Slovenia, 29 Jun. - 02 Jul., 2009. - *member of the Scientific Committee*
- ISEE 2008: 10th Biennial Conference of the International Society for Ecological Economics, Applying Ecological Economics for Social and Environmental Sustainability, Nairobi, Kenya, 7-11 Aug., 2008. - *member of the Scientific Committee; Secretary of the hosting society*

Scientific Events Organized

Evaluating governance and policy in the face of complexity: insights from heterodox economics Panel Session of the 6th ECPR (European Consortium for Political Research) General Conference, University of Iceland, Reykjavik, Iceland, 27. Aug., 2011.

This panel was co-organised with Dr. Dan Greenwood. It focused on how research at the interface between politics and economics can contribute to exploration of the relationship between complexity, radical policy change and democracy. The proposition behind the call

for papers was that research straddling the politics-economics interface can not only enrich our understanding of governance and policy but also offer insights into their effectiveness. Contributors to the panel were asked to respond to the following two propositions: Since values define what constitutes ‘effectiveness,’ this concept is inevitably contestable. Whereas procedural measures are important for considering the quality of governance and policy, assessment of effectiveness entails explicit focus not only on processes but also on outcomes; The presence of complex, long term, yet also urgent, political issues, such as climate change and habitat destruction, seems to demand a policy analysis that can provide both procedural and outcome assessments.

Albrecht Daniel Thier (ADT) Kolloquium 2010: Towards an integrated study of social-ecological systems, interactions, and dynamics: The empirical and conceptual foundations of “fit” Faculty of Agriculture and Horticulture - Humboldt-Universität zu Berlin, Heinrich-Böll-Stiftung e.V., Schumannstr. 8, 10117 Berlin. 18-19 Nov., 2010.

This event, organised in collaboration with Dr. Andreas Thiel, was the second of three ADT colloquia organised in conjunction with the three year visiting Professorship of Prof. Daniel W. Bromley with the Division of Resource Economics, Humboldt-Universität zu Berlin. The colloquium was designed to pick up upon and elaborate insights and issues raised in the 2009 ADT colloquium and was oriented around a Keynote Lecture, given by Prof. Richard Norgaard. Based on decisions taken, following the first ADT colloquium, in 2009, the analytical lens of social-ecological “fit” institutions was used to structure the interventions. Participants were drawn from within the Division of Resource Economics, from several other key research institutions across Europe and from the Parakuiyo Maasai of Tanzania, who were represented by Mr Adam Kuleit ole Mwarabu. Several of the papers written specifically for presentation at this colloquium have just recently been published in the Special Feature ‘Nudging Evolution’ of the journal *Ecology and Society*, edited by Dr. Thiel and myself.

Fossil Energy Dependence and Our Energy Futures: A Public Conversation
Cosmocaixa Science Centre (the science museum of the city of Barcelona),
Barcelona, Spain, 22 Oct., 2010.

This event, for which I served as the primary organiser, brought students from 11 secondary schools in the Barcelona area together with a group of 6 internationally renowned experts in the field of energy issues and energy futures for a public dialogue about the challenges and prospects of creating alternative energy futures for the 21st century. The conversation built on an internet based discussion between the experts and the students, which began 3 months earlier, supported through a custom built website, which served as teaching platform for the students. The purpose of the website and the associated event was to enable discussion on energy future scenarios between scientists and general publics throughout the world, and particularly among the selected secondary schools students in the Barcelona region, using a combination of face to face discussion, blogging, videos, radio and television broadcasts. With this event we set out to perform an innovative experiment in extended peer-review*, a process whereby, due to the complexity of its topic, the quality of a piece of scientific information is evaluated by an extended community of peers, including scientists from various different disciplines and/or laypersons from outside of scientific society.

* The term extended peer-review was Funtowicz and Ravetz, 1994 in their text “The worth of a songbird: ecological economics as a post-normal science” *Ecological Economics* 10:197-207.

- n.b. *Administration of the website has been taken over by Prof Mario Giampietro, within whose research group it was developed, and has been modified to serve his team's evolving objectives for how to proceed with developing this project. The current version of the website can be viewed at: <http://ourenergyfutures.org>.*

Albrecht Daniel Thaer Kolloquium 2009: Exploring the Nexus of Science, Development and the Quest for Africa Faculty of Agriculture and Horticulture - Humboldt-Universität zu Berlin, Heinrich-Böll-Stiftung e.V., Schumannstr. 8, 10117 Berlin, 11-12 Nov., 2009.

This event, which was co-organised with Dr. Andreas Thiel, marked the beginning of the Guest Professorship of Prof. Daniel W. Bromley, Anderson Bascom Professor of Applied Economics at the University of Wisconsin, with the Humboldt Universität zu Berlin Faculty of Horticulture and Agriculture, launching a three year series of Albrecht Daniel Thaer Colloquia specifically concerned with addressing issues of environment, development and philosophy of science. The seminar was oriented around a Keynote Lecture presented by Prof. Bromley, with the aim of providing a fresh and free discussion environment, fostering fruitful critical exchange between key experts from a range of academic disciplines and applied development policy contexts. Participants were drawn from within the Division of Resource Economics, from several other key research institutions across Europe and from the Parakuiyo Maasai of Tanzania, who were represented by Mr Adam Kuleit ole Mwarabu. Discussion was organised using a café style format (with fixed discussion locations and mobile participants) with the objective being to identify a set of key issues for future exploration, which would then constitute the thematic basis for the two further Albrecht Daniel Thaer Colloquia in the series (to be held in 2010 and 2011).

10th Meeting of the International Society for Ecological Economics, Applying Ecological Economics for Social and Environmental Sustainability, UNEP Headquarters, Nairobi, Kenya. 7-11 Aug., 2008.

- member of the local organizing committee

Ghosts in the Machine Marie Curie Special Seminar, Helmholtz Centre for Environmental Research, UFZ, Leipzig, Germany, 29-30 Nov., 2007.

This two day seminar, with guest speakers from Germany and Spain, was organised in collaboration with Dr Julia Touza, to address the question of what strategies might be appropriate for designing integrative ecological economic models that take into account the behaviours of intentional human political actors.

7th biennial conference of the European Society for Ecological Economics, Integrating Natural and Social Sciences for Sustainability, Helmholtz Centre for Environmental Research, UFZ, Leipzig, Germany, 5-8 June 2007.

- member of the local organizing committee

Round Table on the Work of Nicholas Georgescu-Roegen at the 9th Meeting of the International Society for Ecological Economics "Ecological Sustainability and Human WellBeing, New Dehli, India, 15-18 Dec., 2006.

This Round Table discussion, which I convened and moderated, was organized to celebrate the centenary of the birth of Nicholas Georgescu-Roegen, to call attention to the continuing

relevance of his contributions to the field of ecological economics and to introduce his work to the Indian ecological economics community. The three speakers at the Round Table - Joan Martinez-Alier, John Gowdy and Kozo Mayumi - are all internationally renowned experts on Georgescu-Roegen's work, the former two being two of his last students. I was invited by the conference organisers to convene this session and was responsible for the preparatory coordination and also the moderation of the discussion on the day.

Making Sense of Science in Society: considering the downstream consequences of upstreaming, ESRC Workshop held at the Saïd Business School, University of Oxford, Oxford, UK, 25 January, 2006.

This international workshop, which I convened and moderated, was organised with the financial support of a small events grant from the UK Economic and Social Research Council. The purpose of the workshop was to explore the downstream (democratic legitimacy) consequences associated with upstreaming public participation in scientific research and science policy making – the workshop summary report included contributions on the subject for a wide range of internationally established experts in this field and a set of concrete recommendations to the Science in Society Programme of the ESRC, regarding areas requiring further research.

Complexity, Knowledge and Ethics, Queen's University of Belfast, Northern Ireland, 9 September, 2005.

This Invitational Lecture given by Professor Paul Cilliers from the Department of Philosophy, University of Stellenbosch, South Africa, which I convened and organised, was co-funded by the Institutes of: Governance, Public Policy and Social Research; Cognition and Culture; and Irish Studies.

Complexity, Science and Society: Ecological Economics Strand, University of Liverpool, UK, 11-14 September, 2005.

This was one of the numerous autonomous strands that eventually comprised this self-organising conference. I participated, in the conceptualisation of the conference theme and organisational approach, developed the call for papers for the Ecological Economics Strand, co-ordinated the international scientific committee evaluations for the Strand, including the paper submissions, peer review and session administration, co-ordinated the logistics for the Ecological Economics session at the conference and served as co-editor of the ensuing Special Issue *Complexity and Ecological Economics* of the journal *Ecological Complexity*, which was comprised of papers selected from the session and some additional papers submitted subsequently.

Sustainable Development for the 21st Century Institute of Governance, Public Policy and Social Research (IGPPSR), Queen's University of Belfast, Northern Ireland, 16 May, 2005

This one day conference, which I convened and moderated, consisted of two international visiting lectures, one by Dr Ralph Winkler (Germany/UK) and one by Prof. Frank Fischer (USA/Germany), a discussion session and the launch of the IGPPSR Working Paper QU/GOV/2/2005 *Governance of Science*.

Governance of Science: The new politics of science in historical perspective Lecture and Seminar/Workshop, Institute of Governance, Public Policy and Social Research (IGPPSR), Queen's University of Belfast, Northern Ireland, 9-10 March, 2004

This two day event, which I convened and moderated, was co-sponsored by Queen's University of Belfast's (QUB): Centre for Sustainability; Institute of Governance, Public Policy and Social Research; Graduate School of Education; and School of Politics and International Studies. The seminar and workshop included participation from environmental policy practitioners, QUB staff and students from a range of natural and social science faculties and members of Belfast based environmental NGOs. The event was launched by the Director of Environmental Policy from the Department of the Environment in Northern Ireland and included a keynote address by Dr Jerry Ravetz (UK), lecture presentations by Dr Mario Giampietro (Italy) and Dr Fred Luks (Germany) and a brainstorming session on potential science/policy collaboration projects. The contributions toward this session were ultimately compiled in a Working Paper of the Institute of Governance, Public Policy and Social Research (IGPPSR), Queen's University of Belfast with the same title, which I co-edited with Jerome R. Ravetz.

QUB Climate Change Working Group Queen's University of Belfast, Northern Ireland - 2005

This joint initiative of the Queen's University Belfast Centre for Sustainability and Environmental Governance and the Queen's University Environmental Science and Technology Research Centre (QUESTOR), for which I served as co-ordinator, was convened to provide expert commentary to the Department of Environment in Northern Ireland Executive on the 2005 UK Climate Change Programme, with particular emphasis on the devolved Northern Ireland perspective.

Defining Governance Initiative Institute of Governance, Public Policy and Social Research (IGPPSR), Queen's University of Belfast, Northern Ireland – 2002-2004.

This initiative, in which I participated as a researcher and co-ordinator, consisted of a series of research seminars and discussions, targeted to develop a database of definitions of governance and a working definition of governance for the Institute, which was eventually adopted as a scientific and organisational referent for the interdisciplinary work being undertaken there.

Paper and Poster Presentations at Scientific Conferences

13th Biennial Conference of the International Society for Ecological Economics - ISEE 2014: Wellbeing and equity within planetary boundaries, Reykjavik, Iceland, 13-15 Aug., 2014.

Hiedanpää, J. and **Farrell**, K.N. 'About the foundations of ecological economics: A pragmatist revisit of Spash's new foundations'

- *paper accepted for presentation*

EcoEco Alternativa 2014, University of Costa Rica, San José, Costa Rica, 4-8 Mar., 2014.

Farrell, K.N. 'Intellectual Mercantilism: exploring the anatomy of and alternatives to the emergent transnational environmental governance regime assembled around REDD'

- *paper presented*

- Arauz Torres, M.A. and **Farrell**, K.N. 'Regulation without Representation: documenting the logic of local resistance to top down institutional change in the regulation of Nicaragua's temperate pine forests'
 - *paper presented*
- 10th biennial conference of the European Society for Ecological Economics, Ecological Economics and Institutional Dynamics, Lille, France, 18-21 June 2013.
Farrell, K.N. 'Liberation Methodology: reflecting on performances of post-normal science'
 - *paper presented*
- ECPR Joint Sessions Workshop, Session Climate Change 2.0? Normative and Political Challenges of Geoengineering the Climate, University of Mainz, 11-16 March 2013.
Farrell, K.N. 'What now? an exploration of the potential for federalism in environmental governance'
 - *paper presented*
- Earth System Governance Tokyo Conference: Complex Architectures, Multiple Agents, 28.-31. Jan., 2013, Tokyo, Japan.
Farrell, K.N. 'Madison's Political Mandate and Today's World Government: exploring the future of Federalism as a tool for designing Earth System Governance Architectures'
 - *paper presented*
- Ecosystem Services Come of Age: Linking Science, Policy, and Participation for Sustainable Human Well-Being, 5th Annual International Ecosystem Services Partnership Conference, Portland, OR, USA, 30 July - 04 Aug., 2012.
Farrell, K.N. 'History Repeating: a theoretical exploration of Payments for Ecosystem Services as a new form of Intellectual Mercantilism'
 - *speed talk and accompanying paper presented*
- Lund Conference on Earth System Governance, Lund, Sweden, 18-20 Apr., 2012.
Farrell, K.N. 'Freedom to Serve: a critical exploration of the injustices of international payments for ecosystem services'
 - *paper presented*
- The 6th ECPR (European Consortium for Political Research) General Conference, University of Iceland, Reykjavik, Iceland, 27 Aug., 2011.
Farrell, K.N. 'Production Politique: the passive-aggressive politics of the neo-classical production function'
 - *paper presented*
- Western Political Science Association Annual Meeting, San Antonio, Texas, USA, 21-23 Apr., 2011.
Farrell, K.N. 'Representing the Sea: building theory to build a place for the planet in politics'
 - *paper presented*
- Tenth Essex Conference in Critical Political Theory, Theory in the Face of Global Challenges: Capitalism & Ecology, Community & Citizenship, Essex, UK, 16-18 Jun., 2010.
Farrell, K.N. 'The Politics of Science: Marcuse's new science come of age'
 - *paper presented*
- 5th European Consortium for Political Research General Conference, Potsdam, Germany, 10-12 Sept., 2009.
Farrell, K.N. 'The Carbon Trap: why Carbon Permit and Offset Trading is both unfair and inefficient'
 - *paper presented*

XXVII International Conference of Agricultural Economists, Beijing, China, August 16-22, Aug., 2009.

Thiel, A and **Farrell**, K.N ‘The limits and opportunities of social sciences for better resource management: the social construction of resources and the need for methodological pluralism’

- *paper presented*

8th Biennial Conference of the European Society for Ecological Economics, Transformation, Innovation and Adaptation for Sustainability – Integrating Natural and Social Sciences’ Ljubljana, Slovenia, 29 Jun. - 2 Jul., 2009.

Farrell, K.N. ‘Castles in the sand: structuring big back loops with reliably volatile sub-systems’

- *paper presented*

Farrell, K.N. and Thiel, A. ‘a contribution to the analysis of social-ecological transactions: de-constructing ‘what is a natural resource’’

- *paper presented*

7th Open Meeting of the International Human Dimensions Programme on Global Environmental Change, Social Challenges of Global Environmental Change Bonn, Germany, 26-30 Apr., 2009.

Farrell, K.N. ‘Inter-disciplinary Deliberative Democracy: strengthening the democratic legitimacy and political authority of scientific representations’

- *paper presented*

td-net for Transdisciplinary Research, Transdisciplinarity Conference 2008 Zurich, Switzerland, 27-28 Nov., 2008.

Farrell, K.N. ‘System Identity and Direction: a look at framing as an inside job’

- *paper presented*

4S/EASST Annual Meeting: Acting with science, technology and medicine Rotterdam, the Netherlands, 21-23 Aug., 2008.

Farrell, K.N. ‘Snow White and the Wicked Problems of the West: a look at the lines between empirical description and normative prescription in post-normal science theory and practice’

- *invited paper presented in the Special Session ‘How good is post-normal science at addressing wicked issues?’*

10th Meeting of the International Society for Ecological Economics, Applying Ecological Economics for Social and Environmental Sustainability, Nairobi, Kenya. 7-11 Aug., 2008.

Cattaneo, C. and **Farrell**, K.N. ‘Implications associated with the exosomatic evolution of Human-kind: social conflict, renewable materials and permaculture’

- *paper presented*

ole Mwarabu, A.K. and **Farrell**, K.N. ‘Parks, People and Preservation: life between two worlds’

- *paper presented*

Resilience 2008 - Resilience, Adaptation and Transformation in Turbulent Times.

International Science and Policy Conference, Stockholm, Sweden, 14-17 Apr., 2008.

Farrell, K.N. ‘Inter-disciplinarity and Democracy: a discussion of adaptive multi-level governance theory’

- *speed talk presented*

EASY-ECO Vienna Conference 2008 Governance by Evaluation: Institutional Capacities and Learning for Sustainable Development Vienna, Austria, 11-14 Mar., 2008.

Farrell, K.N. ‘Judging Janus: Institutionalising adjudication of the quality of sustainability evaluations and evaluators’

- *paper presented*

2008 Berlin Conference on the Human Dimensions of Global Environmental Change / International Conference of the Social-Ecological Research, Berlin, Germany, 22-23 Feb., 2008.

Farrell, K.N. 'Inter-disciplinary Deliberative Democracy: strengthening the democratic legitimacy and political authority of scientific representations focused on long-term aspects of issues of socio-ecological change'

- *paper presented*

Farrell, K.N. 'The Politics of Model Parameterisation: a diagnostic approach to institutional design drawing upon insights garnered through use of the post-normal science concept as a heuristic frame'

- *paper presented*

Objective Analyse und Normative Ziele? Wandel Gesellschaftlicher Naturverhaeltnisse und die Rolle der Wissenschaft (*Objective Analysis and Normative Goals? change in Society's Relationship to Nature and the Role of Science there in*), Vienna, Austria, 31 Jan. - 2 Feb., 2008.

Farrell, K.N. and Grossmann, K. 'Forschen in der eigenen Community: im Spannungsfeld von Analyse, Politik, Normativität und Beziehungen' (*Researching one's own Community: being in the field of tension constituted from Analysis, Politics, Normativity and Relationships*)

- *paper presented*

7th biennial conference of the European Society for Ecological Economics, Integrating Natural and Social Sciences for Sustainability, Helmholtz Centre for Environmental Research, UFZ, Leipzig, Germany, 5-8 June 2007.

Farrell, K.N., J.E. Armstrong, M. Martienssen and M. Schirmer 'Managing mega-contamination sites: addressing fundamental complexity by shifting orientation away from management and control, toward coping with transition'

- *paper presented*

Farrell, K.N., B. Hamaide, G. Hutchinson and D. Campbell 'Taking Existence Value as a Variable: an exercise in modelling the impact of difference between economic and ecological existence values in ecological economic analyses'

- *paper presented*

Farrell, K.N., S. van den Hove and T. Luzzati (2007) 'What lies beyond reductionism? taking stock of inter-disciplinary research in ecological economics'

- *poster presented*

International Conference on Complex Systems, 2007, Boston, MA, USA, 28 Oct. - 2 Nov., 2007.

Farrell, K.N. Saltelli, A., Tarantola, S. and Gatelli, D. 'Coping with Corruption within Complex Systems: methods for managing modelling ambiguity'

- *poster presented*

9th Meeting of the International Society for Ecological Economics, Ecological Sustainability and Human WellBeing, New Dehli, India, 15-18 Dec., 2006.

Farrell, K.N. 'Living with Living Systems: the co-evolution of values and valuation'

- *paper presented*

Farrell, K.N. (incorporating materials developed in collaboration with K. Mayumi) 'Time, Tradition and Ecological Economic Production Functions: a detailed review and minor extension of Georgescu-Roegen's flow/fund model'

- *paper presented*

Farrell, K.N. 'The Shape of Things to come: a cartographic approach to understanding the complexity of environmental conflicts in Südraum Leipzig'

- *paper presented*

The Biennial International Workshop: Advances in Energy Studies Perspectives on Energy Future, Porto Venere, Italy 12-16 Sept., 2006

Farrell, K.N. and K. Mayumi 'Time and Tradition in the Works of Nicholas Georgescu-Roegen'

- *poster presented*

EASST Conference 2006, Reviewing humanness: bodies, technologies and spaces, Lausanne, Switzerland, 23-26 Aug., 2006.

Farrell, K.N. 'Bitter Fields and better Fellows: the roles of science and society in creating and resolving groundwater contamination in Middle-Germany'

- *paper presented at the session Assessing (styles of) Governance Session 1 of 2: learning from local participation in environment related research and decision-making*

6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, Germany, 9-13 Oct., 2005.

Farrell, K.N. 'Different forms of Difference in Multi-level Governance for Sustainability: an extension of arguments presented in an earlier paper'

- *paper presented*

Farrell, K.N. 'Inter-disciplinary Deliberative Democracy: a theory of Collective Ecological Management'

- *invited paper presented*

Double Standards and Simulation: Symbolism, Rhetoric and Irony in Eco-politics, Bath UK, 1-4 Sept., 2005.

Farrell, K.N. and F. Luks 'See No Evil, Hear No Evil, Speak No Evil: Eco-Policy, Eco-Polity, Eco-Politics'

- *paper presented*

Finland Futures Research Centre conference, Foresight Management in Corporations and Public Organisations - New Visions for Sustainability, Helsinki, Finland, 9-10 June, 2005.

van der Brugge, R. and K.N. **Farrell** 'Complex Organisational Purposes and Personal Integrity: a look into relationships between management of whole and partial system purpose in organisations of human actors'

- *paper presented*

6th Biennial European Society for Ecological Economics biennial conference Science & Governance - The Ecological Economics Approach, New University of Lisbon and Gulbenkian Foundation, Lisbon, Portugal, 14-17 June, 2005.

Farrell, K.N. 'On the Governance by Science on Governance for Sustainability'

- *special session organizer and associated paper presented*

Farrell, K.N. 'Governance of Science – Perspectives, Processes, Products and Prospects'

- *paper presented*

8th biennial conference of the International Society for Ecological Economics Montreal, Canada, 11-14 July, 2004.

Farrell, K.N. and A. Vatn 'Exosomatic Instruments of Production and the Human Species: historical and normative epistemological foundations of ecological economics'

- *paper presented*

Farrell, K.N. 'Who decides who decides: hydroponics and meadow flowers'

- *paper presented*

Farrell, K.N. 'Living with living systems: exosomatic instruments and the evolution of homo sapiens'

- *paper presented as part of the Special Session 'Governance for Sustainable Development: Perspectives from Europe'*

Complexity, Ethics and Creativity, London School of Economics, 17-18 Sept., 2003.

Farrell, K.N. 'Complexity and Democratic Theory: Building a new Cosmopolis for the 21st century'

- *paper presented*

6th Nordic Conference on Environmental Social Sciences (NESS), Turku /Åbo, Finland, 12-14 June, 2003.

Farrell, K.N. 'Recapturing Fugitive Power: An Exploration of the Relationships between Bureaucracy, Technocracy, Democracy, Public Consultation and Legitimacy in Environmental Governance'

- *paper presented*

53rd Annual Conference of the Political Studies Association, University of Leicester, UK, 15-17 Apr. 2003.

Farrell, K.N. 'How Much for your Wife? A Critique of the Pragmatic Assigning of Monetary Values to Ecological Phenomena'

- *paper presented*

7th Bi-Annual Conference of the European Society for Ecological Economics, Tenerife, Spain, 11-16 Feb., 2003.

Farrell, K.N. 'How Much for your Wife? A Critique of the Pragmatic Assigning of Monetary Values to Ecological Goods and Services'

- *paper presented*

Annual Conference of the Political Studies Association of Ireland, Belfast, Northern Ireland, 18-20 Oct., 2002.

Farrell, K.N. 'Environmental Management Decision-Making in Ireland: Waste Management Planning and the Threat of the Citizen Juries'

- *paper presented*