

## ***CURRICULUM VITAE***

### **KLAUS HUBACEK**

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#### **Personal Information**

##### **Education**

Rensselaer Polytechnic Institute, Troy, NY	Ph.D. in Ecological Economics	Dec. 2000
Rensselaer Polytechnic Institute	M.Sc. in Economics	Dec. 1998
University of Economics and Business Administration, Vienna, Austria	Masters of Business Administration (Magister)	June 1991

##### **Appointments**

<b>2011-present</b>	Professor, Geography, University of Maryland, College Park, USA
<b>2010-2012</b>	Senior Research Fellow, Department for Land Economy, University of Cambridge, UK
<b>2006-2010</b>	Reader (Associate Professor) in Sustainable Development , School of Earth and Environment, University of Leeds, UK
<b>2002-2006</b>	Lecturer (Assistant Professor) at the School for the Environment, University of Leeds, Leeds, UK (since September 2002).
<b>1999-2006</b>	Affiliated research scholar at the Industrial Ecology program and the Land Use program, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.
<b>2002-2002</b>	Visiting scholar, Institute for Interdisciplinary Studies of Austrian Universities, Department of Social Ecology, Vienna, Austria.
<b>2001-2001</b>	Visiting assistant professor, Western Maryland College (now McDaniel), Westminster, MD.
<b>2000-2001</b>	Post-doctoral research fellow and instructor, Rensselaer Polytechnic Institute, Troy, NY.
<b>1996-2000</b>	PhD student and research and teaching assistant, Rensselaer Polytechnic Institute, Troy, NY.
<b>1998-1998</b>	Intern in the industrial group at the New York State Energy Research and Development Agency, (May - October 1998).
<b>1991-1996</b>	Instructor and researcher at the Interdisciplinary Institute for Environmental Economics and Management, University of Economics and Business Administration, Vienna, Austria.
<b>1989-1990</b>	Free-lance researcher, Austrian Institute for Applied Ecology (Ökologieinstitut).

## Research, Scholarly, and Creative Activities

<sup>1</sup>Primary contributor, <sup>2</sup>Principal contributor with first author, <sup>3</sup>Principal investigator on research presented (contribution to the paper generation), <sup>4</sup>Contributor only. \*student participant

## Books

### Books

1. Hubacek, K. (2002). ***The role of land in economic development: a structural approach towards sustainability***. Publisher UMI, 2002. 174 pages
2. Bruckner, W, J Cupal, C Helma, K. Hubacek<sup>2</sup>, W Konrad, C Ocnasik, H Sengstbratl, M Braungart, H Rehbock, M Daunderer, and H Kruse (1991). ***Alternatives to Incinerators for Austria's Household Waste Problems*** [In German]. Ministry for the Environment, Youth and Family Affairs. Vienna. 210 pages.

### Edited books and special issues

1. Hubacek K and L Fleskens (eds) (forthcoming 2013). "Modeling Land Management for Ecosystem Services". ***Regional Environmental Change***.
2. Hubacek K and J Pavola (eds) (2013). "Ecosystem Services, Governance and Stakeholder Participation". ***Ecology and Society***.
3. Kronenberg, J. and K. Hubacek (eds) (2013). "Urban Ecosystem Services". ***Landscape and Urban Planning***. 109, Issue 1, Pages 1-128
4. Tukker, A., Cohen, M., Hubacek, K., and Mont, O. (eds.). (2010). "Sustainable Consumption. ", Special Issue. ***Industrial Ecology***. Vol. 14/1.
5. Crona, B. and Hubacek, K. (eds.). (2010). "Social network analysis in natural resource governance?" Special Issue, ***Ecology & Society***.  
<http://www.ecologyandsociety.org/issues/view.php?sf=48>
6. Bonn, A, K. Hubacek<sup>2</sup>, T E Allott and J Stuart (eds.). (2009). ***Drivers of Environmental Change in Uplands***. Routledge. London and New York. 544 pp.
7. Hubacek, K., Inaba, A., and Stagl, S. (eds.) (2004). Proceedings for the International Workshop on Driving Forces to and Barriers to Sustainable Consumption. March 05 and 06. Leeds, UK.  
<http://www.env.leeds.ac.uk/%7Ehubacek/leeds04/call.htm>. 403pp

### Chapters in Books

#### ***Published***

1. Feng, K and K Hubacek (In Press). Distribution of CO2 emissions in China's supply chains: a MRIO analysis. In: Murray J and M Lenzen (eds.) ***The Sustainability Practitioner's Guide to Multi-Regional Input-Output Analysis***. Common Ground Publishers: Champaign, IL.
2. Yu, Y, Feng, K and K Hubacek (In Press). "Consumption-based inventory of global land use." In: Murray J and M Lenzen (eds.) ***The Sustainability Practitioner's Guide to Multi-Regional Input-Output Analysis***. Common Ground Publishers: Champaign, IL.

3. Xin L., K. Hubacek, and Y. L. Siu (2011). Wind power in China: Dream or reality? In: Jesús Ramos-Martín, Mario Giampietro, Sergio Ulgiati, and Sandra G.F. Bukkens (Editors). ***Can We Break the Addiction to Fossil Energy?*** Proceedings of the 7th Biennial International Workshop Advances in Energy Studies, Barcelona, Spain, 19-21 October 2010. UAB, Barcelona, pp. 169-177. ISBN 978-84-938852-9-8.
4. Crona, B.I., Ernstson, H., Prell, C., Reed, M. and Hubacek, K., Newig, J. (2011). "Network-related approaches and theories in resource management." In Prell, C and Bodin, O. ***Social Networks and Natural Resource Management: Uncovering the Social Fabric of Environmental Governance***. Cambridge University Press.
5. Prell, C., Reed, M. and Hubacek, K., (2011). "Social network analysis for stakeholder selection." In Prell, C and Bodin, O. ***Social Networks and Natural Resource Management: Uncovering the Social Fabric of Environmental Governance***. Cambridge University Press.
6. Ogarenko I. and K. Hubacek. 2010. CO2 Emission Reduction Resulting from Eliminating Energy Subsidies in Ukraine. Towards a Green Economy: Young Researchers Perspective. Nakladatelství a vydavatelství litomyslského semináře - Litomyšl Seminar Publishing: Prague.
7. Holden J., M Reed, K Hubacek, F Worrall, N Beharry-Borg, T Burt, P Chapman, A Dougill, E Fraser, B Irvine, N Jin, M Kirkby, C Prell, C Quinn, M Termansen, S Buckmaster. (2010). Sustainable uplands for sustainable lowlands. In Yorkshire's green and healthy land? Connecting urban and rural greenspace. Aterden M, A Bloomer, V Wallace (eds). PLACE, York.
8. Hubacek, K<sup>1</sup> and M. Reed (2009). "Lessons learned from participatory planning and management in the Peak District National Park, England." In: Allen, C and G Stankey (eds.). ***Adaptive Environmental Management: A practical guide***. Springer. pp. 189-202.
9. Hubacek, K<sup>1</sup>, N. Beharry, A Bonn, T. Burt, J Holden, F Ravera\*, M Reed, L Stringer, D Tarrasón (2009). "Ecosystem services in dynamic and contested landscapes: the case of UK uplands." In: Winter, M and M Lobley (eds). ***What is Land for? The Food, Fuel and Climate Change Debate***. Earthscan. London. pp. 167-188.
10. Hubacek, K<sup>1</sup>, K Dehnen-Schmutz, M Qasim\* and M Termansen (2009). "Description of the upland economy: areas of outstanding beauty and marginal economic performance". In: Bonn, A., K Hubacek, T.E.Allott and J. Stuart (eds.). ***Drivers of Environmental Change in Uplands***. Routledge. London and New York
11. Bonn, A, K Hubacek<sup>2</sup>, TE Allott and J Stuart (2009). "Drivers of Change in Upland Environments: Concepts and Threats". In: Bonn, A., K Hubacek, TE Allott and J Stuart (eds.). ***Drivers of Environmental Change in Uplands***. Routledge. London and New York
12. Bonn, A, K Hubacek<sup>2</sup>, T E Allott and J Stuart (2009). "Managing Change in the Uplands: Challenges and Visions for the Future". In: Bonn, A., K Hubacek, TE Allott and J Stuart (eds.). ***Drivers of Environmental Change in Uplands***. Routledge. London and New York
13. Giljum, S\* and K Hubacek<sup>2</sup> (2009). "Physical Input-output Analysis and Material Flow Analysis." ***Handbook of Input-Output Economics for Industrial Ecology***. Springer: Dordrecht, NL.
14. Dietzenbacher, E, S Giljum, K Hubacek<sup>2</sup> and S Suh (2009). "Physical Input-Output Analysis and Disposals to Nature." ***Handbook of Input-Output Economics for Industrial Ecology***. Springer: Dordrecht, NL.
15. Jin, N, M Termansen, K Hubacek (2008). "Genetic Algorithms for dynamic land-use

- optimization." ***Evolutionary Computation*, 2008**. CEC 2008. (IEEE World Congress on Computational Intelligence). ISBN: 978-1-4244-1822-0.
16. Barua, A\* and K Hubacek<sup>2</sup> (2008). "Relationship between economic growth and water pollution in India". In: Gunjan Malhotra (ed.). ***Environment and Development***. Macmillan India, New Delhi.
  17. Hubacek, K<sup>1</sup>, E Fraser and S Thapa\* (2008). "Land Use Governance". In: O'Hara, P (ed.). ***International Encyclopedia of Public Policy, Governance in a Global Age***. Vol. 3. GPERU: Perth.
  18. Hubacek, K<sup>1</sup>, E Fraser and K Korytarova\* (2008). "Food and the Environment: (Neo-) Malthusianism Arguments and Population Growth". In: O'Hara, P (ed.). ***International Encyclopedia of Public Policy, Governance in a Global Age***. Vol. 3, GPERU: Perth.
  19. Kerschner, C\* and K Hubacek<sup>2</sup> (2008). "Assessing the suitability of input-output analysis for enhancing our understanding of potential effects of peak oil." Proceedings of the Fourth Biennial International Workshop, ***Advances in Energy Studies***, Porto Venere, Italy, September, 2006.
  20. Jin, N M Termansen, K Hubacek<sup>3</sup>, J Holden, M Kirkby, "Adaptive Farming Strategies for Dynamic Economic Environments", in Proceedings of the ***2007 Congress on Evolutionary Computation*** (IEEE CEC) 2007. Page(s):1213 – 1220. IEEE press, 2007. ISBN: 1-4244-1340-0. doi:10.1109/CEC.2007.4424608
  21. Vieira, R\*, S Stagl, and K Hubacek<sup>2</sup>. (2007). "Complexity and the DPSIR framework as a basis for a sustainable water management" (pp. 73-89). In ***Sustainable Urban Development: An Interdisciplinary Approach***. Shmeleva IA and SE Smelev (eds.) St. Petersburg State University Press: St. Peterburg, 243 pp.
  22. Fraser, E and K Hubacek<sup>2</sup> (2007). "The challenge of land use change: international dimensions" In: Steininger, K and M Cogoy. ***The Economics of Sustainable Development: International Perspectives***. Edward Elgar: Cheltenham, UK
  23. Hubacek, K<sup>1</sup>, D Guan\*, L Sun (2005). "An analysis of China's water problems: A long term perspective". W., L.eal (ed.). ***Handbook on Sustainability Research***. Peter Lang Scientific Publishers: Frankfurt, New York, Bern, Vienna.
  24. Hubacek, K<sup>1</sup> and J Vazquez (2002). "Economics of Land Use." In: ***Knowledge base for Sustainable Development. An Insight into the Encyclopaedia of Life support Systems***, UNESCO Publishing-EOLSS Publishers, Oxford, UK
  25. Stagl, S, G Cox, J Erickson, and K Hubacek<sup>2</sup> (2001). "A Multi-Criteria Analysis for Open Space Conservation in New York State." In: Makowski, M and H Nakayama (eds.). ***Natural Resources Management and System Analysis***. International Institute for Applied Systems Analysis, Laxenburg, Austria.
  26. Hubacek, K<sup>1</sup> and L Sun (2001). "Combining Input-Output Analysis and Geographical Information Systems (GIS): A Case Study for Land Use Change in China." In: Makowski, M and H Nakayama (eds.) ***Natural Resources Management and System Analysis***. International Institute for Applied Systems Analysis, Laxenburg, Austria.
  27. Hubacek, K<sup>1</sup> and W Bauer (2001). "Conservation and Social Discourse Processes: An Example from Austria." In: Köhn, J, J Gowdy, and J van der Straaten (eds.). ***Sustainability in Action: Sectoral and Regional Case Studies***. Edward Elgar, London.

28. Hubacek K<sup>1</sup> and W Bauer (1999). "Austrian Case Study on Economic Incentive Measures in the Creation of the National Park Neusiedler See - Seewinkel: Summary" In: **OECD Case Studies on the Design and Implementation of Incentive Measures for the Conservation and Sustainable Use of Biodiversity**. OECD, Paris. ISBN 9264170596.
29. Hubacek, K<sup>2</sup>, R Hackstock, O Kastner, and M Ornetzeder (1997). "Diffusion of Solar Water Heaters in Austria." In: Fohler-Norek, C and R Paulesich (eds.). WU **Umwelt Reader**: Umwelt und Wirtschaft an der Wirtschaftsuniversitaet Wien. Verlag Österreich, Vienna.

## Articles in Refereed Journals

Citation Impact factors (IF) of journals taken from Web of Science, 2011

### **Under review**

1. Feng, Hubacek, Sui, Xin (Under Review). China's energy-water nexus: An integrated hybrid LCA of electricity generation technologies. Submitted to **Nature Climate Change**.
2. Wadsworth, R., Howard, D.C., Wadsworth, W., Hubacek, K., Butler, S.J., Burgess, P., Gan, G., van der Horst, D., Coleby, A. and Lord, R. (under review). Ecosystem Services to assess Land Management Options: A method to capture diversity and consistency of stakeholder views? Submitted to **Ecological Informatics** [IF=1.432].
3. Nainggolan, D., K. Hubacek, MS. Reed (under review). Visualising discourse - unfolding complexity: An analysis of different perceptions on upland management. Submitted to **Ecology & Society**. [IF=2.5]
4. Ogarenko, Y. and K. Hubacek (accepted pending revisions). "Eliminating Indirect Energy Subsidies in Ukraine: Estimation of Environmental and Socio-Economic Effects Using Input-Output Modelling." **Economic Structures**.
5. Yu Y., AJ Parsons; J. Wainwright; C. Prell; K. Hubacek (accepted pending revisions). "Perceptions of desert landscape: a case study in Southern New Mexico." Submitted to **Area** [IF=1.368].
6. Mauerhofer V., Hubacek, K., and A. Coleby. (accepted pending minor revisions). From polluter pays to beneficiary pays: Distribution of Rights and Costs under Payments for Ecosystem Services. Submitted to **Ecology & Society** [IF=2.5]
7. Reed MS, Hubacek K, Bonn A, Burt T, Holden J, Stringer LC, Beharry-Borg N, Buckmaster S, Chapman D, Chapman P, Clay GD, Cornell S, Dougill AJ, Evelyn A, Fraser EDG, Jin N, Irvine B, Kirkby M, Kunin W, Prell C, Quinn CH, Slee W, Stagl S, Termansen M, Thorp S, Worrall F (accepted pending revisions). Anticipating and managing future trade-offs and complementarities between ecosystem services. **Ecology & Society**. [IF=2.5].
8. Qasim, M., K. Hubacek, M. Termansen Socio-economic Driving Forces of Land Use Change in Swat, Pakistan (In Press). Submitted to **Land Use Policy**. [IF=2.355].
9. Reed MS, Podesta G, Fazey I, Beharry NC, Geeson N, Hessel R, Hubacek K, Letson D, Nainggolan D, Prell C, Psarra D, Rickenbach MG, Ritsema C, Schwilch G, Stringer LC, Thomas AD (In Press). "Combining theoretical frameworks to assess livelihood vulnerability to climate change: a literature review." **Ecological Economics**. [IF=2.7].
10. Termansen, M, DI Chapman, CH Quinn, EDG Fraser, N Jin, N Beharry and K Hubacek<sup>3</sup>. (accepted pending revisions). "Integration of choice models with environmental process-based models for land use change modeling." **Ecological Economics**. [IF=2.7].

11. Minx, J., G. Baiocchi, K. Hubacek, and J. Barrett (accepted pending revisions). "Seeing the Forest for the Trees? Using qualitative methods to compare production systems in monetary and physical measurement units." *Ecological Economics*. [IF=2.7].

**Published**

1. Beharry-Borg, N., JCR Smart, M. Termansen, K Hubacek (In Press). Evaluating farmers' likely participation in a payment program for water quality protection in the UK uplands. *Regional Environmental Change*. [IF=3.0]
2. Qasim, M., K. Hubacek, M Termansen, L Fleskens (In Press). "Modelling land use change across elevation gradients in district Swat, Pakistan." *Regional Environmental Change*. [IF=3.0]
3. Nainggolan, D., M. Termansen, M.S. Reed, E. D. Cebollero, K. Hubacek (In Press). "Farmer typology, future scenarios and the implications for ecosystem service provision: a case study from south-eastern Spain." *Regional Environmental Change*. [IF=3.0]
4. Howard, D.C., Burgess, P.J., Butler, S.J., Carver, S.J., Cockerill, T., Coleby, A.M., Gan, G., Goodier, C.I., van der Horst, D., Hubacek, K., Lord, R., Mead, A., Rivas-Casado, M. Wadsworth, R.A. and Scholefield, P. (In Press). The EnergyScape; linking the energy system and ecosystem services in real landscapes. Submitted to *Biomass and Bioenergy*. [IF=3.646].
5. Drake, B., J.C.R. Smart, M. Termansen, K. Hubacek (In Press). "Public Preferences for Production of Local and Global Ecosystem Services. *Regional Environmental Change*. [IF=3.0]
6. Fleskens, F., D. Nainggolan, M. Termansen, K. Hubacek and M.S. Reed (In Press). "Fleskens, F., D. Nainggolan, M. Termansen, K. Hubacek and M.S. Reed (In Press). "Regional consequences of the way land users respond to future water availability in Murcia, Spain." *Regional Environmental Change*. DOI: 10.1007/s10113-012-0283-8." *Regional Environmental Change*. [IF=3.0]
7. Kronenberg, J. and K. Hubacek (2013). "Ecosystem service curse". *Ecology & Society* 18 (1): 10. [online]. URL: <http://www.ecologyandsociety.org/vol18/iss1/art10/> [IF=2.5].
8. Reed, M. S., K. Hubacek, A. Bonn, T. P. Burt, J. Holden, L. C. Stringer, N. Beharry-Borg, S. Buckmaster, D. Chapman, P. J. Chapman, G. D. Clay, S. J. Cornell, A. J. Dougill, A. C. Evelyn, E. Fraser, N. Jin, B. J. Irvine, M. J. Kirkby, W. E. Kunin, C. Prell, C. H. Quinn, B. Slee, S. Stagl, M. Termansen, S. Thorp and F. Worrall. 2013. Anticipating and Managing Future Trade-offs and Complementarities between Ecosystem Services. *Ecology and Society* 18 (1): 5. [online] URL: <http://www.ecologyandsociety.org/vol18/iss1/art5/> [IF=2.5].
9. Hubacek, K., & Kronenberg, J. (2013). Synthesizing different perspectives on the value of urban ecosystem services. *Landscape Urban Planning* Vol. 109, pages 1-6. [IF=2.173].
10. Feng, K., Y.L. Siu, D. Guan K. Hubacek (2012). "Analyzing drivers of regional CO2 emissions for China: A structural decomposition analysis." *Industrial Ecology*. Volume 16, Issue 4, August 2012, Pages: 600–611, [IF=2.426].
11. Nainggolan, D., M. Termansen, L. Fleskens, K. Hubacek, M.S. Reed, J. de Vente, C. Boix-Fayos. (2012). "What does the future hold for semi-arid Mediterranean agro-ecosystems? Exploring cellular automata and agent-based trajectories of future land-use change." *Applied Geography* Vol. 35. pages. 474-490. [IF=3.082].
12. Nainggolan, de Vente, Boix-Fayos, Termansen, Hubacek, Reed (In Press). "Greening-up, land abandonment and agricultural intensification: Competing pathways in semi-arid Mediterranean agro-ecosystems." *Agriculture, Ecosystem, and Environment*. Vol. 159, Pages 90-104 [IF=3.004].

13. Soane, I., R. Scolozzi, A. Gretter, K. Hubacek (2012). "Exploring Panarchy: Managing cultural landscapes of alpine-mountain grassland inspired by adaptive cycles". *Ecology & Society* 17 (3): 18. [IF=2.5].
14. Guan, D., Z. Liu, Y. Geng, S. Lindner, K. Hubacek (2012). "The Gigatonne Gap in China's CO<sub>2</sub> Inventories." *Nature Climate Change*. Volume 2, issue 9, year 2012, pp. 672 – 675.
15. Krueger, T., T. Page, K. Hubacek, K. Hiscock (2012). "The role of expert opinion in environmental modeling." *Environmental Modelling & Software*. Volume 36, October 2012, Pages 4–18. [IF=2.871].
16. Li, X. ; Y.L. Siu, K. Feng, K. Hubacek. (2012). "Energy-Water nexus of wind power in China: The balancing act between CO<sub>2</sub> emissions and water consumption." *Energy Policy* Vol. 45, pages: 440–448.. [IF=2.9].
17. Coleby, Alastor M., Dan van der Horst, Klaus Hubacek, Chris Goodier, Paul J. Burgess, David Howard, and Anil Graves (2012). "Environmental Impact Assessment and Ecosystems Services: the case of energy crops the UK " *Journal for Environmental Planning and Management*. Vol. 55/3. Pages 369-385. [IF=1.143].
18. Li, X. ; K. Hubacek, Y.L. Siu,. (2012). "Wind Power in China – Dream or Reality?" *Energy*. 37, 51-60. [IF=3.487].
19. Hubacek K, K. Feng, B. Chen (2012). Changing lifestyles towards a low carbon economy: an IPAT analysis for China. *Energies*. 5(1), 22-31; doi:10.3390/en5010022. . *Energies*. [IF=1.865].
20. Feng, K., K. Hubacek, Y.L. Siu, D. Guan (2012). Assessing Regional Virtual Water Flows and Water Footprints in the Yellow River Basin, China. *Applied Geography*. Volume 32, Issue 2, March 2012, Pages 691-701 [IF=3.082].
21. Ravera F, K. Hubacek, M. Reed and D. Tarrasón (2011) "Learning from Experiences in Adaptive Action Research: a Critical Comparison of two Case Studies Applying Participatory Scenario Development and Modelling Approaches." *Environmental Policy and Governance* 21, 433–453.
22. Feng, K., A. Chapagain, S. Suh, S. Pfister, K. Hubacek (2011). Comparison of bottom-up and top-down approaches to calculating the water footprints of nations. *Economic Systems Research* Vol. 23(4), pp. 1–15. [IF=2.428].
23. Minx, JC, G. Baiocchi, GP. Peters, C.L. Weber, D. Guan and K. Hubacek (2011). Carbonizing Dragon: China's fast growing CO<sub>2</sub> emissions revisited. *Environmental Science & Technology* 45 (21), pp 9144–9153 [IF=5.2].
24. Whitfield, Reed, Thomson, Christie, Stringer, Quinn, Anderson, Moxey, Hubacek (2011). "Managing Peatland Ecosystem Services: Current UK policy and future challenges in a changing world." *Scottish Geographical Journal*. . pp 1-22. [IF=0.459].  
<http://www.tandfonline.com/doi/abs/10.1080/14702541.2011.616864>
25. Fraser, DGE, A. Dougill, K. Hubacek, C. Quinn, J. Sendzimir M. Termansen, (2011). "Assessing Vulnerability to Climate Change in Dryland Livelihood Systems: Conceptual Challenges and Interdisciplinary Solutions." *Ecology & Society* 16 (3): 3. [online] URL: <http://www.ecologyandsociety.org/vol16/iss3/art3/> ". [IF=3.204].
26. Reed MS, Fazey I, Stringer LC, Raymond CM, Akhtar-Schuster M, Begni G, Bigas H, Brehm S, Briggs J, Bryce R, Buckmaster S, Chanda R, Davies J, Diez E, Essahli W, Evely A, Geeson N, Hartmann I, Holden J, Hubacek K, Ioris I, Kruger B, Laureano P, Phillipson J, Prell C, Quinn CH,

- Reeves AD, Seely M, Thomas R, van der Werff Ten Bosch MJ, Vergunst P, Wagner L (2011) Knowledge management for land degradation monitoring and assessment: an analysis of contemporary thinking. *Land Degradation & Development* [IF=0.856]
27. Kagawa, S., Nansai, K., Hubacek, K., Suh, S., Minx, J., Kudoh, Y., Kondo, Y., Tasaki, T., Nakamura, S., (2011). Does Product Lifetime Extension Mitigate Climate Change? *Environmental Science & Technology* 45 (4), pp. 1184-1191 [IF=4.630].
  28. Qasim, M., K. Hubacek, M. Termansen and A. Khan (2011). "Spatial and temporal dynamics of land use pattern in district Swat, Hindu Kush Himalayan region of Pakistan." *Applied Geography*. Vol. 31/2, pages 820-828. [IF=3.082].
  29. Feng, K., K. Hubacek, Y.L. Siu, A. Chapagain, Y. Yu, J. Minx, D. Guan, J. Barrett (2011). "Spatially explicit analysis of water footprints in the UK." *Water*. Vol. 3, 47-63; doi:10.3390/w3010047
  30. Thapa, S. and K. Hubacek (2011). "Drivers of illegal resource extraction: An analysis of Bardia National park, Nepal." *Journal of Environmental Management*. Vol. 92. pp 156-164 [IF=3.245].
  31. Prell, C., K. Hubacek, M. S. Reed, L. Racin. (2010). "The role of formal and informal structures in shaping land management view: social networks versus organizational affiliations. *Ecology & Society*. 15 (4): 34. [online] <http://www.ecologyandsociety.org/vol15/iss4/art34/>. [IF=3.204]
  32. Crona, B. and K. Hubacek. (2010). "The right connections: How do social networks lubricate the machinery of natural resource governance?" *Ecology & Society*. 15(4): 18. <http://www.ecologyandsociety.org/vol15/iss4/art18/> [IF=3.204].
  33. Feng, K., K. Hubacek, D. Guan, M. Contestabile, J., J. Barrett (2010). "Distributional Effects of Climate Change Taxation: The case of the UK." *Environmental Science & Technology*. 44 (10), pp 3670–3676 [IF=4.363]
  34. Reed MS, Bonn, A, Broad K, Burgess P, Burt TB, Fazey IR, Hubacek K, Nainggolan D, Quinn CH, Roberts P, Stringer LC, Thorpe S, Walton DD, Ravera F, Redpath S. (In Press). "Participatory scenario development for environmental management: a methodological framework. *Journal of Environmental Management*. [IF=3.245].
  35. Quinn, C.H., Fraser, E.D.G., Hubacek, K. & Reed, M.S (2010). "Property rights in UK uplands and the implications for policy and management." *Ecological Economics*. Volume 69, Issue 6, Pages 1355-1363. [IF=2.422].
  36. Yu, Y., K. Hubacek, D.Guan, K. Feng (2010). "Assessing Regional Water Footprints for the UK ". *Ecological Economics*. Volume 69, Issue 5, Pages 1140-1147. [IF=2.422].
  37. Baiocchi, G., J.Minx, K. Hubacek (2010). "The Impact of Social Factors and Consumer Behavior on CO2 emissions in the UK: a Panel Regression Based on Input-Output and Geo-demographic Consumer Segmentation Data". *Industrial Ecology*. Vol. 14/1: 50-72. [IF=1.962].
  38. Tukker, A, MJ Cohen, K Hubacek<sup>2</sup>, O. Mont (2010). "Impacts of Household Consumption and Options for Change." *Industrial Ecology*. Vol. 14/1. Vol. 14/1: 13-30. [IF=1.962].
  39. Reed, M., A. Bonn, A. Dougill, B. Kunin, B. Irvine, C. Prell, C. Quinn, D. Chapman, E. Fraser, F. Worrall, G. Clay, J. Sendzimir, J. Holden, K. Hubacek; L. Stringer; M. M. Kirkby; N. Jin; Nesha Beharry; P. Chapman, S. Cornell; T. Burt, B. Slee, I. Brown, J. Glass, M. Price, D. Moseley, S. Redpath, C. Reid, W. Towers, S. Thorp (2010). "The Futures of the Uplands." *Land Use Policy*. Vol. 26/1: 204-216. [IF=1.821].
  40. Minx, J, F Ackerman, G; Baiocchi, J Barrett, J Briggs, E Dawkins, D Guan, K Hubacek<sup>4</sup>, M Lenzen,



- A Owen, A Paul, G Peters, K Scott, S Suh, T Wiedmann; R Wood (2009). "Input-Output Analysis and Carbon Footprinting: An overview of applications". *Economic Systems Research*. Vol. 21/3: 187-216. [IF=2.428].
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### **Monographs, Reports, Working Papers, and Extension Publications**

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2. Buckmaster, SL., Reed, M.,Burt TP, Chapman D, Chapman PJ, Clay G, Cornell SJ, Fraser EDG, Hodgson JA, Hubacek K, Irvine B, Kirkby MJ, Kunin WE, Prell C, Quinn C, Stagl S, Stringer LC, Termansen M, Worrall F. (2010) What if managing carbon and wildlife because the top priority for our hill farmers?, **Sustainable Uplands Film**, Baker Media, ESRC.

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6. Bowen, A, PM Forster, A Gouldson, K Hubacek,<sup>4</sup> R Martin, DW O'Neill\*, A. Rap and J. Rydge. (2009). *The Implications of the Economic Slowdown for Greenhouse Gas Emissions and Targets. Working Paper of the Center for Climate Change Economics and Policy*. Leeds and London.
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### ***Book Reviews, Other Articles, and Notes.***

1. Wen, C., YL Siu, K. Hubacek (2012). "Carrot and Stick – A Novel Policy Experiment of Trans-boundary Watershed Protection in China." ***Environmental Science & Technology***. Vol. 46. Pages 6451-6452. [IF=4.8].
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4. Guan, D. and K. Hubacek (2011). "Is the concept of a green economy a useful way of framing policy discussions and policymaking to promote sustainable development?" Viewpoints. ***Natural Resources Forum***. Vol. 35; p.70.
5. Peter, GP, Guan, D., Hubacek, K., Minx, JC, Weber, CL. (2010). "Effects of China's Economic Growth." Correspondence. ***Science***. Vol. 328, pp. 824-825.
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7. Liddon, A, MS Reed MS, K Hubacek (2007) "Uplands under pressure." ***RICS Land Journal***, Nov/Dec: 19
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9. Hackstock, R , K Hubacek<sup>2</sup>, O. Kastner, and M Ornetzeder (1995). "Biomass District Heating and Solar Energy in Austria - Models for Successful Dissemination of New Technologies." ***Forschungsforum Energie*** 2/96.

### ***Talks, Abstracts, and Other Professional Papers Presented***

#### **Invited talks**

1. Hubacek, K (2012). "Tele-connecting local consumption to global land use and water consumption." Department of Atmospheric and Oceanic Sciences. University of Maryland, ***Frontiers in Atmosphere, Ocean, Climate, and Synoptic Meteorology Research***. 29. November, College Park, USA. First International Forum on Cities and Climate Change, jointly held with the First Meeting of the Academic Committee of the Shanghai Climate Change Research Centre (SCCRC).

2. Hubacek, K (2012). Ecosystems evaluation – discussion panel. **First International Forum on Cities and Climate Change**, jointly held with the First Meeting of the Academic Committee of the Shanghai Climate Change Research Centre. 29th October. Shanghai, China.
3. Hubacek, K (2012). Discussant. **Wealth Accounting and Valuation of Ecosystem Services**. Second Partnership Meeting 2-4 April 2012, World Bank. Washington, DC.
4. Hubacek K. and C. Prell (2012). “Reflections from a participatory modeling project in the UK uplands .” Seminar series. Society and Environment. Department of Sociology. 1<sup>st</sup> February. University of Maryland, College Park.
5. Hubacek, K (2010). “Lessons learned from a computer-assisted participatory planning and management process in UK’s uplands” **Department of Land Economy. University of Cambridge**. Cambridge, UK.
6. Hubacek, K (2009). “Adaptive management to evaluating ecosystem services: Description and reflections on an ongoing project” **Foresight Land Use Futures and RELU’s workshop** on land valuation and decision making, 22nd July, 2009, London.
7. Hubacek, K (2009). “The role of participatory techniques in identifying methods of adaptive governance”. **Studies in Alpine communities in a time of change. International conference on Uplands and Resilience. Fondazione Edmund Mach (FEM)**. Trento, Italy, 10. July.
8. Hubacek, K (2009). “Accounting for CO2 emissions: UK, China and International Trade” **ESRC Seminar Series on Complexity Economics**, University of Leeds. 24<sup>th</sup> June.
9. Hubacek, K (2009). “Ecosystem services in dynamic and contested landscapes - an interdisciplinary perspective.” 28<sup>th</sup> May. **Centre for Rural Economy**, University of Newcastle.
10. Hubacek, K (2009). “Participatory approaches for developing upland communities.”. **Expert workshop for the Commission for the Rural Community**. 22<sup>th</sup> and 23<sup>rd</sup> May, Penrith, UK
11. Hubacek, K et al. (2009). “Towards a ‘New Deal’ in climate policy! A consumption-based approach for mitigation of GHG emissions.” **Chair’s Seminar Series for the Air Resources Board. California Environmental Protection Agency**. 8<sup>th</sup> April. Sacramento, CA.
12. Bonn, A. and Hubacek, K (2009). “Ecosystem services in uplands”. **Expert workshop for the Commission for the Rural Community**. 20<sup>th</sup> March, Alnwick, UK
13. Hubacek, K (2009). “Consumption based approach to GHG emissions accounting.” Invited expert and presentation at the **International workshop Support of Shaping the Post Kyoto Climate Regime**. The Regional Environmental Center for Central and Eastern Europe. March 5-6. Szentendre, Hungary.
14. Hubacek, K et al. (2009). “Sustainable Uplands: Combining participatory research and integrated socio-biophysical models.” **RELU Workshop on Expert Systems For Natural Resources Management**. 14.01. 2009. London International Development Centre.
15. Hubacek, K (2008) “What is just when accounting emissions to a country? Consumption-based approach (CBA) for mitigation of GHG emissions.” Invited presentation and expert for the Local Cities and Local Governments (ICLEI) at the **Side event at the UNCCC COP14**, Poznan, Poland.
16. Hubacek, K (2008) “The case of USA and China.” Consumption emissions from specific countries. Invited presentation and expert for the Government of Catalonia's **Side event at the UNCCC COP14**, Poznan, Poland.

17. Kirkby, M., M. Termansen, KHubacek et al. (2008). "Sustainable Uplands – Combining participatory research and integrated agent based models.". 2008 Annual Conference – **Living Upland Landscapes**. Castleton, UK
18. Hubacek K et al. (2008). "The Upland Economy, Ecosystems Services and Rural Livelihoods". **ESRC/NERC Seminar on Interdisciplinary Research on Ecosystem Services: Fire and Climate Change in UK Moorlands and Heaths**. Edinburgh, 31. March 2008.
19. Hubacek K et al. (2008). "Working with stakeholders - a mediated modeling approach in UK uplands". **Seminar at the Macauley Institute for Land Use Change**. Aberdeen, 13. February 2008.
20. Hubacek K (2007). "Managing uncertainty in complex socio-environmental systems: A mediated modelling approach", **Seminar at the Economics Department, University of Groningen, NL**, January 2007.
21. Hubacek K (2006). "China's environmental costs of development", **Seminar at the Environment Department, University of York**, December 2006.
22. Hubacek K, Prell, C, Reed M., Quinn, C., Jin N., Holden, J., Burt, T.P., Kirkby, M., Sendzimir, J. (2007). If you have a hammer everything looks like a nail: 'traditional' versus participatory modelling approaches". **CAIWA 2007 International Conference on Adaptive, Integrated Water Management**, Basel, Switzerland, 12 - 15 November 2007.
23. Quinn Claire, Hubacek K et al. (2007). "Stakeholder Participation in the Strategic Management of Upland Landscapes". **RELU/LARCI/Northern Rural Network Conference on "Research on Rural Resource Management and the Rural Economy: Addressing the Local Dimension"**. 16. May 2007.
24. Hubacek, K et al. (2006). "**Sustainable Uplands: Frameworks for Adaptive Learning**". **MFF conference "Drivers of Change"**. Castleton, UK
25. Hubacek, K and C Niemi (2006). "Case studies measuring social capital for sustainable consumption". **GRC Industrial Ecology conference** at Oxford, August 2006.
26. Hubacek K, Prell C et al. (2006). "Stakeholder identities and stakeholder mappings in futures research". **Rural Futures Conference** in Plymouth, 5.-7. April, 2006.
27. Hubacek K, Reed MS, Fraser EDG, Dougill AJ, Prell C, (2006). "Upland Management and implementation of the CAP." **RELU conference**, Manchester, January 2006.
28. Hubacek K et al.(2005). "Doing Adaptive Learning Rural Research: Lessons from the Peak District National Park", **BioScene 2005 - Biodiversity Conservation and Sustainable Development in the Mountain Areas of Europe: the challenge of interdisciplinary research**, Ioannina, Greece, September.
29. Dougill AJ, Reed MS, Hubacek, K, Burt T, Chapman PJ, Fraser EDG, Holden J, Kirkby MK, Prell C, Sendzimir J, Shotbolt L, Stagl ST, Stringer LC, Turner A, Worrall F (2005). "Managing Uncertainty in Dynamic Socio-Environmental Systems: An Application to UK Uplands", **ESRC/NERC/BBSRC Rural Economy and Land Use Programme: Scoping the Research Agenda**, Kings Rooms, York, May.
30. Hubacek, K, Reed MS, Dougill AJ, Burt T, Chapman PJ, Fraser EDG, Holden J, Kirkby MK, Prell C, Sendzimir J, Shotbolt L, Stagl ST, Stringer LC, Turner A, Worrall F (2005). "Sustainable Upland Management for Multiple Benefits", **ESRC/NERC/BBSRC Rural Economy and Land Use**



**Programme: The Challenge for Research**, 19-21 January, Birmingham.

31. Reed MS, Hubacek, K (2005). "Sustainable Upland Management for Multiple Benefits", **UKPopNet Large-scale Upland Manipulation Feasibility Workshop**, Stockholm Environment Centre, University of York, March.
32. Hubacek, K "Environmental Applications of Input-output Analysis." **Workshop at the Stockholm Environment Institute (SEI)** at the University of York, York 21. May, 2004.
33. Reed MS, Prell C, Hubacek, K (2004). "Managing Uncertainty in Dynamic Socio-Environmental Systems: an application to upland management", **Moors for the Future Conference**, Castleton, October.
34. Hubacek, K, Dabo Guan, and Anamika Barua (2004). "Outcomes of the Sustainable Consumption Conference at Leeds." (Proceedings) **Third International Workshop on Sustainable Consumption**. October 21-22, 2004. Organized by the Society of Non-Traditional Technology (SNTT) Research Center for Life Cycle Assessment, AIST.
35. Hubacek, K, Katarina K, W Haas, E Hertwich, M Ornetzeder, H Weisz (2003). "Approaches for evaluating sustainable consumption initiatives." (Proceedings). **Second International Workshop on Sustainable Consumption**. December 12-13, 2003. Organized by the Society of Non-Traditional Technology (SNTT) Research Center for Life Cycle Assessment, AIST: pp 82 – 89.

#### **Full papers in conference proceedings**

1. Li, Xin, Klaus Hubacek, Kuishuang Feng, Yim Ling Siu (2012). "Challenges faced when energy meets water: water implications of power generation in the northern regions of China." 20th International Input-Output Association Conference in Bratislava, Slovakia, 25.-29.6.2012.
2. Fu, Xue, Kazushige Shimpo, Klaus Hubacek, Yaxiong Zhang (2012). "China's Industry Potential across region for Carbon Emission Reduction based on optimal 2007 MRIO model." 20th International Input-Output Association Conference in Bratislava, Slovakia, 25.-29.6.2012.
3. Feng, Kuishuang, Klaus Hubacek, Laixiang Sun (2012). "Regional Inequality and CO2 Emissions in China: a consumption based MIRO approach." 20th International Input-Output Association Conference in Bratislava, Slovakia, 25.-29.6.2012.
4. Fu, Xue, Bo Meng, Klaus Hubacek, Kuishuang Feng (2012). "Research on Industry Actual Potential for Carbon Emission Reduction based on Optimal Input-Output model." 20th International Input-Output Association Conference in Bratislava, Slovakia, 25.-29.6.2012.
5. Fu, Xue, Bo Meng, Klaus Hubacek (2012). "Turnpike Optimality in Environment-Input-Output System: Analysis on the Adjustment Potential of China's Industry Structure for Carbon Emission Reduction." 20th International Input-Output Association Conference in Bratislava, Slovakia, 25.-29.6.2012.
6. Feng, Kuishuang, Stephan Pfister, Sangwon Suh, Jan Christoph Minx, Klaus Hubacek (2011). "A multi-region input-output analysis of global virtual water flows." 19th International Input-Output Association Conference in Alexandria, USA, 13-17 June 2011.
7. Lindner, Martin Soeren and Klaus Hubacek (2011). "Embodied energy intensities in Chinese Provinces." 19th International Input-Output Association Conference in Alexandria, USA, 13-17 June 2011.
8. Xin Li, Xin, Klaus Hubacek, Yim Ling Siu, Kuishuang Feng (2011). "Water and energy nexus in

- energy production: assessing water consumption and CO2 emissions of wind power in China." 19th International Input-Output Association Conference in Alexandria, USA, 13-17 June 2011.
9. Feng, Kuishuang, John Barrett, Thomas Wiedmann, Klaus Hubacek, Jan Minx, Kate Scott (2010). "The role of infrastructure in meeting UK climate change targets: a case study of wind energies." 18th International Input-Output Association Conference in Sydney, Australia, 20-25 June 2010.
  10. Lindner, Martin Soeren, Dabo Guan, Klaus Hubacek (2010). "Measuring Embodied Emission Flows for the Interdependent Economies within China." 18th International Input-Output Association Conference in Sydney, Australia, 20-25 June 2010. Kerschner, C\* and K Hubacek (2009). "Peak-Oil from an ecological economist's point of view." Paper presented at the International Ecological Economics Conference. Ljubljana, July 2009.
  11. Ravera, F, D Tarrasón, M Reed, K Hubacek (2009). "Learning from local lessons for dealing with change: a participatory and integrated scenario analysis in a semiarid agro-pastoral mountain systems in northern Nicaragua." Paper presented at the International Ecological Economics Conference. Ljubljana, July 2009.
  12. Termansen, M, D Chapman, C Quinn, E Fraser, N Jin, N Beharry and K Hubacek (2009). Combining choice models and habitat succession models for land use change modelling. Paper presented at The International Choice Modelling Conference. Harrogate, UK, March 2009.
  13. Quinn, C H, Reed, MS, and K Hubacek 2008. "Property Rights in UK Uplands and the Implications for Policy and Management." Presented at "Governing Shared Resources: Connecting Local Experience to Global Challenges," 12th Biennial Conference of the International Association for the Study of Commons, Cheltenham, England, July 14-18, 2008.
  14. Kerschner, C\* and K Hubacek (2008). "Measuring potential effects of production peaks of global non-renewable key (GNoRK) resources within the concept of economic disasters." International Input-Output Conference, Seville, Spain. July 2008.
  15. Weber, CL, GP Peters, D, Guan, K Hubacek (2008). "The Contribution of Chinese Exports to Climate Change." International Input-Output Conference, Seville, Spain. July 2008.
  16. Guan, D, K Hubacek, CL Weber, GP Peters, D Reiner (2008). "The Drivers of Chinese CO2 Emissions from 1980 to 2030." International Input-Output Conference, Seville, Spain. July 2008.
  17. Yang Yu, K Hubacek, D. Guan, N. Jin and K Feng\* (2007). "Construction and application of regional input-output models: Assessing water consumption in South East and North East of England". Paper presented at the Sixteenth International Input-Output Conference. July 2007, Istanbul, Turkey.
  18. Dabo G, K Hubacek, G Peter and C Weber. (2007). Driving China to a Cleaner Transformation and Bluer Sky: A New Approach of IPAT-IO Structural Decomposition Analysis on CO2 Emissions. Paper presented at the Sixteenth International Input-Output Conference. July 2007, Istanbul, Turkey.
  19. Christian K\* and K Hubacek (2007). Towards a multi-method Input-Output analysis of the potential economic effects of Peak-Oil induced petroleum supply disruptions. Paper presented at the Sixteenth International Input-Output Conference. July 2007, Istanbul, Turkey.
  20. Minx, JC, Baiocchi, G, K Hubacek, Wiedmann, T, and Barrett, J (2007). "Revealing Structures: Empirical Differences between Monetary and Physical Input-Output Models and their Implications for Environmental Economic Analysis." Paper presented at the Sixteenth

International Input-Output Conference. July 2007, Istanbul, Turkey.

21. Muñoz, P and K Hubacek 2006. "Explaining changes in material flow accounting (MFA) using Structural Decomposition Analysis (SDA): a case study for Chile, 1986-1996." Paper presented at the IX Biennial Conference of the International Society for Ecological Economics on "Ecological Sustainability and Human well-being". December 15-18, 2006. New Delhi, India.
22. Barua, A\* and. K Hubacek (2006). Water pollution in India: an environmental Kuznets curve analysis. Paper presented at the 9<sup>th</sup> Biennial International Conference of the International Society of Ecological Economics. 15.- 18. December. New Delhi, India.
23. Kerschner C\* and K Hubacek (2006). Assessment and application of input-output tools for analyzing the potential impacts of resource supply shocks: the phenomenon of peak oil. Paper presented at the 9<sup>th</sup> Biennial International Conference of the International Society of Ecological Economics. 15.- 18. December. New Delhi, India.
24. Hubacek K and D Guan\*, A. Barua\* (2006). Changing lifestyles and consumption patterns in developing countries: a comparative study of China and India. Paper presented at the 9<sup>th</sup> Biennial International Conference of the International Society of Ecological Economics. 15.- 18. December. New Delhi, India.
25. Guan, D\* and K Hubacek (2006). "A Hydro-economic Accounting and Analytical Framework for Water Resource Consumption in China." Paper presented at the International Input-Output Meeting. July 2006, Sendai, Japan.
26. Dabo G\* and K Hubacek (2005). "Development of Input-Output Analysis on Water and its Application on Virtual Water Flows in China". Paper presented at the Fifteenth International Input-Output Conference. 27 June– 1 July 2005, Beijing, China P.R.
27. Korytarova, K\* and K Hubacek (2005). CO2 Emissions from consumption in a transition economy: the case of Slovakia. Pp. 79-87. In Hertwich, E, T Briceno, P Hofstetter, A Inaba (editors): Proceedings: Sustainable Consumption: The Contribution of Research, Workshop, 10-12 February 2005, Proceedings. IndEcol Report Series 2005/1, Norwegian University of Science and Technology, Industrial Ecology Program. ISBN 82-7948-046-3.
28. Guan, D\*, K Hubacek and A Barua\* (2005). Changing lifestyles and consumption patterns in developing countries: A comparative study of India and China. In Hertwich et al., opt. cit.
29. Haas, W, E Hertwich, K Hubacek, K Korytarova\*, M Ornetzeder, H Weisz (2005). Assessment of environmental impacts of household consumption: A comparative case study on the car-free settlement in Vienna, Austria: In: Hertwich et al. opt. cit.
30. Guan, D\* and K Hubacek (2005). "Life style changes and long-term water shortages in China." Proceedings of the 6th conference for postgraduate students, young scientists and researchers on Environmental Economics, Policy and International Environmental Relations. Prague, 7 – 8 October, 2004.
31. Barua, A\* and K Hubacek (2005). "The informal sector and water pollution in India." Proceedings of the 6th conference for postgraduate students, young scientists and researchers on Environmental Economics, Policy and International Environmental Relations. Prague, 7 – 8 October, 2004.
32. Korytarova, K\* and K Hubacek (2005). "CO2 emissions from consumption in Slovakia." Proceedings of the 6th conference for postgraduate students, young scientists and researchers

on Environmental Economics, Policy and International Environmental Relations. Prague, 7 – 8 October, 2004.

33. Prell, C, T Harrison, K Hubacek and J Zappen (2004). "Sustainability and Community Technology: What Does this Mean for Community Informatics?" Community Informatics Research Network Inaugural Conference and Colloquium, at the Monash Centre, Prato, Italy, 29 September - 1 October, 2004. <http://www.ciresearch.net/?q=node/5>
34. Haas, W, E Hertwich, K Hubacek, K Korytarova, M. Ornetzeder and H Weisz (2004). "Investigating household consumption: combining quantitative and qualitative methods." Proceedings for the International Workshop on Driving Forces for and Barriers to Sustainable Consumption. March 05 and 06. Leeds, UK  
<http://www.env.leeds.ac.uk/%7Ehubacek/leeds04/5.8ThreatToSusBurden-vs5%20final%20version.pdf>.
35. Guan, D and K Hubacek (2004). "Lifestyle changes and energy and water consumption in China: a historical analysis." Proceedings for the International Workshop on Driving Forces for and Barriers to Sustainable Consumption. March 05 and 06. Leeds, UK
36. Stagl, S and K Hubacek (2002). "A Framework for a Community-based Comparison for Consumption Patterns." Interims Report IR-02-073 International Institute for Applied Systems Analysis. AIST/IIASA/UNEP workshop on Lifecycle Approaches to Sustainable Consumption in Laxenburg Austria, 22. November, 2002.
37. Hubacek, K and L Sun (2002). Changes in China's economy and society and its effects on water use. Interims Report IR-02-073 International Institute for Applied Systems Analysis. AIST/IIASA/UNEP workshop on Lifecycle Approaches to Sustainable Consumption in Laxenburg Austria, 22. November, 2002.
38. Hertwich, EG, K Erlandsen, K Sørensen, J Aasness, K Hubacek (2002). Pollution embodied in Norway's import and export and its relevance for the environmental profile of households Interims Report IR-02-073 International Institute for Applied Systems Analysis. AIST/IIASA/UNEP workshop on Lifecycle Approaches to Sustainable Consumption in Laxenburg Austria, 22. November, 2002.
39. Hammer, M\* and K Hubacek (2002). "Material Flow and Economic Development - Total Material Requirement of the Hungarian Economy." Seventh Biennial Conference for the International Society for Ecological Economics. Environment & Development: Globalization and the challenges for Local & International Governance. Sousse, Tunisia. March 6- 9<sup>th</sup>, 2002
40. Illge, L, K Hubacek, and S Giljum (2002). "Is there a Role for EU and German Integrated Product Policy in Solving Global Environmental Problems?" In: F Biermann, R Brohm and K Dingwerth, eds. Proceedings of the Berlin Conference on the Human Dimensions of Global Environmental Change and the Nation State. Potsdam: Potsdam Institute for Climate Impact Research, pp. 183–191.
41. Hubacek, K and L Sun (2000). "Land Use Change at the Regional Level in China: A Scenario Analysis Based on Input-Output Modeling." International Conference on Input-Output Modelling. Macerata, Italy.
42. Hubacek, K, JD Erickson, and F Duchin (1998). "Input-Output Modeling of Multiple Land Uses in the Adirondack Park" Proceedings of 1998 National IMPLAN User's Conference. Washington, D.C.

## ***Contracts and Grants***

2010	IUCN (Commission of Inquiry into Peatlands). <b>Technical Review: Policy measures for sustainable management of UK peatlands</b>
2009-2010	Economic and Social Research Council, UK and Indian Social Science Research Council (ESRC-ICSSR). <b>“Developing a Measure for Inequitable Household Access to Water in Urban India.”</b> (with The Energy Research Institute, TERI, Delhi, India) (covers travel and living expenses).
2009-2010	Economic and Social Research Council, UK (ESRC). <b>“Sustainable Uplands: Learning to manage future change.”</b> (co-investigator/all at Leeds £ 99,717).
2010	Natural Environment Research Council, UK (NERC) and Mobil. <b>“EnergyScapes and Ecosystem Services.”</b> (co-investigator: Leeds share: 100k/total £ 350,000/).
2009	International Water Management Institute (IWMI)/CGIAR: <b>“Analytical Framework for Water Accounting and Livelihoods.”</b> Scoping Study. (PI: \$ 4,000).
2009	WWF World Wide Fund for Nature – UK: <b>“Distributional Effects of Climate Change Taxation: The case of the UK”</b> . (Principal Investigator: £ 15,000 – all at Leeds).
2007-2010	White Rose PhD scholarships: <b>“Impact of large scale management change on upland ecosystems.”</b> Three White Rose PhD studentships. (co-investigator: Leeds share: £ 68k/Total: £ 175k).
2006-2011	Framework 6 Integrated Project: <b>“Desertification Mitigation &amp; Remediation of Land”</b> Funded under Activity Area SUSTDEV-2005 "Combat land degradation and desertification". (co-investigator: Leeds share Euro 300k/total Euro 7 million).
2006-2010	Marie Curie Actions (RTNs) <b>“Multi-level Governance of Natural Resources: Tools and Processes for Water and Biodiversity Governance in Europe”</b> . (co-investigator: Euro 388,000 (Leeds share)/Total: Euro 2,200,000).
2006-2008	Yorkshire Water: <b>Stakeholder involvement, upland management and water quality.</b> (principal-investigator: £ 99,800 all at Leeds).
2006	DEFRA (UK Department for the Environment, Food and Rural Affairs): <b>“Sustainable Consumption and Production: Development of an Evidence Base”</b> . (co-investigator: ~£ 5,000 Leeds share).
2006	DEFRA (UK Department for the Environment, Food and Rural Affairs): <b>“Vulnerability of organic soils”</b> . (co-investigator: ~£ 25,000 all at Leeds).
2005	Arup and Stockholm Environment Institute: <b>“Ecological Footprint of Dongtan, China”</b> (co-investigator: ~£ 5,000 Leeds share).
2005	China Council for International Cooperation on Environment and Development (CCICED): <b>“Sustainable Urbanisation in China – Resources and Environment Component”</b> (co-investigator: ~£ 5,000 Leeds share).

- 2005-2009 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Rural Economy and Land Use Programme (RELU). **“Managing Uncertainty in Dynamic Socio-Environmental Systems: An Application to UK Uplands”**. (Principal Investigator: Leeds share ~ £ 500,000/total: £ 750,000).
- 2005 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Scoping Study under the Rural Economy and Land Use Programme (RELU). **“Sustainable Upland Management for Multiple Benefits”**. Ref No: RES-224-25-0088. (Principal Investigator: £ 50,000 + £ 68,000 in-kind contributions from Moors for the Future; all at Leeds).
- 2005 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Scoping Study under the Rural Economy and Land Use Programme (RELU). **“Achieving sustainable catchment management: developing integrated approaches and tools to inform future policies”**. (Co-investigator: Leeds share: travel costs/total: £ 50,000).
- 2004 Society for Non-Traditional Technology (SNTT), Japan. **Funding for International Conference on Sustainable Consumption** in Cooperation with the United Nations Environment Programme (UNEP), Heterodox Economics Network for the Environment and European Society for Ecological Economics. (Organizer and scientific chair): ~£ 15,000 all at Leeds.
- 2004 – 2005 Society for Non-Traditional Technology (SNTT) and the National Institute for Applied Industrial Science and Technology (AIST), Japan. **“Lifecycle approaches to sustainable consumption”**. (Co-investigator): ~£ 22,000.
- 2003 – 2006 European Commission’s 5th Framework Program: **“MOdelling opportunities and limits for restructuring Europe towards SUSTainability (MOSUS)”**. (Hired researcher: ~\$ 10,000).
- 2003 – 2004 Jubilaeumsfonds der Oesterreichischen Nationalbank, Vienna, Austria: **“The Environmental Impacts of Consumption”**. (Co-investigator): ~ £ 53,000/Leeds share ~£ 10,000.
- 2002-2005 EUROSTAT: **Economy-wide national material flow accounts and indicators of resource use for the EU**. Research grant in collaboration with the Institute for Interdisciplinary Studies of the Austrian Universities-Department of Social Ecology, Vienna Austria; (Total: ?/Co-investigator: several thousand \$).
- 1995 – 1996 Austrian Federal Environmental Agency and UNESCO: **Economic Incentives and Social Discourse Processes for the Establishment of the Transboundary National Park at Lake Neusiedl**, (Principal Investigator: 9900 \$).
- 1995 Österreichischer Akademikerdienst: **Diffusion of Alternative Energy Technologies** in Bulgaria, externally funded joint-seminar with the University of World Economy, Sofia, Bulgaria, (Principal Investigator: travel costs for participants).

- 1993 Römerquelle (Coca Cola): **Renewable Energy for Industry**, externally funded seminar, (Principal Investigator: travel costs for participants).
- 1992 – 1994 Austrian Ministry of Science and Research and the European Commission: **Pathways from Small Scale Applications to Sustainable Regional Development** (EXPRESS-PATH), (Co-investigator: 99,900 \$).

### ***Fellowships, Prizes, and Awards.***

Best policy paper award of *Environmental Science and Technology (ES&T)* – ‘(co-authored with Peters, Weber and Guan) (2007).

Runner-up for Leontief award (co-authored with Dabo Guan) at the international Input-output conference in Istanbul, 2007.

Austrian Academy of Sciences: Young Scientists Summer Program at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (June - August, 1999).

Austrian Ministry of Science and Research and Fulbright Commission: Two-year scholarship for PhD studies at Rensselaer Polytechnic Institute, Troy, NY (1996 - 1998).

British Council Exchange Program with Sheffield Hallam University, UK (October and December 1996).

US-IA Fulbright faculty-exchange program: Visiting Scholar at the University of World Economics in Sofia, Bulgaria and the University of North Carolina in Chapel Hill (January-February 1993, August-September 1994).

Austrian Ministry of Science and Research: Visiting Scholar at the Institute for Geography at the University of Copenhagen (July - September 1992).

Member of the Austrian delegation at the United Nations Conference on Environment and Development (UNCED 1992); Rio de Janeiro, Brazil (June 1992).

## ***Editorships, Editorial Boards, and Reviewing Activities for Journals and Other Learned Publications.***

### **Editorial Board**

Associate Editor of the International Journal for Ecological Economics and Statistics

Editorial Board member for the Journal of Economic Analysis

Editorial Board member for Water (MDPI, ISSN 2073-4441, <http://www.mdpi.com/journal/water/>)

Editorial Board member for Economic Structure (ISSN: 2193-2409, Springer, <http://www.journalofeconomicstructures.com/>)

### **Referee for book publishers and international journals**

Area

Agricultural Economics

Biodiversity and Conservation

China Economic Review

Crop Protection

Ecological Economics,

Ecological Economics and Statistics

Ecology and Society

Economic Systems Research

Energy

Energy Economics

Energy Policy

Environment and Development Economics

Environment and Resource Economics

Environmental Management

Environment and Planning A

Environmental Planning & Management

Environmental Research Letter

Environmental Research and Public Health

Environmental Science & Policy

Environmental Science & Technology

Forest Ecology and Management

European Environment

Global Environmental Change

Industrial Ecology

Landscape and Urban Planning

Landscape Research

Natural Resources Forum

Nature Climate Change

Progress in Physical Geography

Regional Environmental Change

Routledge

Science, Technology and Human Values

Society & Natural Resources



Structural Change and Economic Dynamics  
Sustainability  
The Science of the Total Environment  
Water  
Water Resource Management  
Wiley  
Wind Energy

## Teaching, Mentoring, and Advising

### Courses taught.

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- Modeling conceptualizing human-environment interaction (UG)<sup>1</sup>
- Human Dimensions of Global Environmental change (UG)<sup>1</sup>
- Qualitative Methods; 2009/2010; (PG)<sup>2</sup>
- Research Methodology; from 2002-2008; (PG)<sup>2</sup>
- Research Philosophy and Design; from 2004-2010; (PG)<sup>2</sup>
- Tools and Applications in Ecological Economics; from 2002-2008; (PG)<sup>2</sup>
- Project evaluation and governance; from 2008-now; (PG)<sup>2</sup>
- Environmental Issues in China; from 2003-2006; (UG)<sup>2</sup>
- The economics of environmental conservation; from 2003 -2006; (UG)<sup>3</sup>
- Local Currencies and Community Development; 1996 (UG)<sup>4</sup>
- Work and the Environment; 1996; (UG)<sup>4</sup>
- Energy Economics; 1995; (UG)<sup>4</sup>
- Diffusion of Alternative Energy Technologies in Bulgaria; 1994; (UG)<sup>4,5</sup>
- Feasibility of a Biomass District Heating Plant in a Rural Town; 1993; (UG)<sup>4</sup>
- Renewable Energy for Industry; 1993; (UG)<sup>4</sup>
- Industrial Environmental Management; 1992; (UG)<sup>4,6</sup>
- Applied Environmental Economics (Case studies); 1992-1994; (UG)<sup>4</sup>
- Introductory Environmental Economics; 1991-1993; (UG)<sup>4</sup>

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<sup>1</sup> Department of Geographical Sciences, University of Maryland, College Park, U.S.A.

<sup>2</sup> School of Earth and Environment, University of Leeds, UK

<sup>3</sup> School of Biology, University of Leeds, UK

<sup>4</sup> University of Economics and Business Administration, Vienna, Austria

<sup>5</sup> University of World Economics, Sofia, Bulgaria

<sup>6</sup> University of Economics, Budapest, Hungary

UG: undergraduate studies; PG: Masters and PhD

**Advising: Research Direction.**

***Doctoral.***

*Supervision of PhD students*

PhD students	Topic (short title)	Funding sources	Status
Monir Islam, Bangladesh	Impact of climate change on fisheries of Bangladesh	Commonwealth Scholarship	2nd year
Wen Cheng, China	Land use, participation and ecosystem services	China Scholarship Council	2nd year
Li, Xin, China	Modeling the diffusion of wind energy in China	Self-funded	3rd year
Drake, Ben	Ecosystem services approach to socio-economic valuation in UK uplands	White Roses Scholarship	Graduated 2011; University of York, UK
Kerschner, Christian, Austria (visiting PhD student)	Modeling Peak Oil	Marie Curie and Spanish Government scholarship	final year; Universitat Autònoma de Barcelona
Feng, Kuishuang, China	Spatial regional economic-ecology models	Self-funding, WWF, UKERC	Graduated 2011, University of Leeds
Doan Nainggolan, Indonesia	Modeling land use and water consumption in SE Spain.	Overseas Research Scholarship	Final year
Mahroos, Ahmed; Oman	Environmental impact assessment in Oman	Oman Government	Final year
Qasim, Muhammad; Pakistan	Drivers of Land Use Change in Swat, Pakistan	Pakistan Ministry of Education.	Graduation 2011
Dodds, Paul, UK	Modeling land use change in sub-Saharan Africa	ESRC/NERC research council	Graduated 2010
Niemi, Carita; Finland	Social capital and sustainable consumption	University Research Scholarship	Stopped for private reasons
Ravera, Federica; Italy;	Modeling land use change in	Marie Curie and	Graduated 2012;

visiting PhD student)	uplands in Nicaragua	other sources	Universitat Autònoma de Barcelona
Muñoz, Pablo; Chile; visiting PhD student)	Modeling material flows in Chilean trade		Graduated 2009; Universitat Autònoma de Barcelona
Barua, Anamika	Economic growth and water pollution in India	Self-funded	Graduated May 2009
Thapa, Shova	People-park conflict in Bardia, Nepal	Self-funded	Graduated 2008; University of Sussex
Minx, Jan, Germany (visiting PhD student)	Modeling sustainable consumption and production		Graduated 2008; University of York
Guan, Dabo; China	Environmental input-output modelling	Self-funded	Graduated 2007; University of Leeds)

***Masters.***

*Supervision of about 30 MSc and Masters of Research (MRes) students (incomplete list below)*

<b>Name</b>	<b>Topic (short title)</b>	<b>Graduated</b>
Eko Priyo Purnomo, Indonesia	The Development of Local Community Institution for Community-Based Forest Management	2010
Archita Bhatta, India	Farmer's adaptations to climate change in Himachal Pradesh	2010
Ben D. Agbemor, Ghana	Community-managed forests in Ghana	2009
Nareerat Panamee, Thailand	Household Wastewater Management in Thailand	2009
Aura Guzman, Mexico	National adaptation actions (NAPAS) in Bangladesh	2009
Zacharias Herrington-Shaner, US	Environmental perceptions in rural US	2008
Alistair Wolfe, UK	Inspiring sustainable entrepreneurship	2008
Kate Scott, UK	Sustainable Consumption, UK	2007
Kuishuang Feng, China	Econometric analysis of UK sectoral energy consumption	2006
Ben Drake, UK	Distribution and optimization of wind farms	2006
Doan, Nainngolan, Indonesia	Visual discourse analysis	2005

Takeshi Sakai, Japan	The multiple regression model of household energy consumption in Japan	2005
Julius NIBA FON	Heather burning in UK uplands	2005
Kostas Bartzis, Greece	Fixed feed-in tariffs and tradable renewable electricity certificates in Europe	2004
Sandra Kadungure	Food systems in Sub-Saharan Africa	2004
Yanan Wu, China	China's rural labor migration and its socio-economic and environmental impacts	2004
Yudi Suyudi, Indonesia	Sustainability of Indonesian Palm Oil industry	2003
Hanouet Stephanie, France	Evaluation of water withdrawal, of Languedoc – Roussillon (France)	2003
Meuthia Alvernia Naim, Indonesia	Evaluation of adaptation efforts in Indonesia	2003
Darmaerius, Indonesia	Cape and trade emission modeling for river systems	2003

***Undergraduate.***

*Supervision of about 25 undergraduate dissertations (max. 12,000 words) since 2002*

## Service

### Professional

#### ***Offices and committee memberships held in professional organizations***

Council member - International Input-Output Association (IIOA) since 2004.

Board member of the Industrial Ecology (Section on Environmentally Extended Input Output Analysis) since 2010.

#### ***Organization of Scientific Conferences***

- Scientific chair of the 19. International Input-output conference, Alexandria, VA, 2011.
- Scientific co-chair of the 18. International Input-output conference, Sydney, 2010.
- Member of the review panel for the “International Ecological Economics Conference”. Bremen, Germany, 25-29 August 2010.
- Member of the scientific organizing committee International Input-Output Conference
  - March 2008, Sevilla, Spain
  - 2009, Sao Paolo, Brazil
- Scientific chair of the 16th International Input-output conference, Istanbul, 2007.
- Member of the scientific advisory board for the 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> International Conference on Eco-balance, 2004, 2006, 2008, 2010 Tsukuba, Japan.
- Member of the review panel for the “Berlin Conference on the Human Dimensions of Global Environmental Change: Resource Policies: Effectiveness, Efficiency, and Equity”. Berlin, 17-18 November 2006.
- Organizer and scientific chair of the international conference in Leeds, 2004 on “Driving Forces for and Barriers to Sustainable Consumption”, under the auspices United Nations Development Program (UNDP) and the National Institute of Advanced Science and Technology (AIST), Japan.

### ***Reviewing activities for agencies***

Referee of Grants and Awards

British Royal Society

German Federal Ministry of Education and Research (BMBF).

International Institute for Applied Systems Analysis, Laxenburg, Austria.

Israel Science Foundation

Leverhulme Thrust, UK

Research Council of Norway

South Asian Network for Development and Environmental Economics (SANDEE), Katmandu, Nepal.

Swiss National Science Foundation

The OeNB Anniversary Fund [Austrian National Bank], Vienna, Austria.

UK Department for the Environment, Food and Rural Affairs (DEFRA), London, UK.

UK Department for International Development (DFID), London, UK.

UK Economic and Social Research Council (ESRC), Swindon, UK.

World Bank

### ***Other non-University committees, commissions, panels, etc.***

Scientific Advisory Board Member of the German Sustainable Land Use Program, 2010-

Invited expert for the Natural England's initiative on Ecosystem Services, January, 2010.

Invited expert for the 'Inquiry into the future for upland communities in England.' 20 March, 22-23 May, 2009.

Invited expert for NERC's Land-Based Renewables Scoping Group. Birmingham, 29<sup>th</sup> October, 2008.

Invited expert for the Government of Catalonia's Side event at the UNCCC COP14, Poznan, Poland 2008.

## ***Campus***

### **Departmental (University of Leeds, UK)**

2008 – 2010	Director of the PhD program at the Sustainability Research Institute
2004 - 2010	Director of the Masters of Research (MRes)
2002 – 2010	School of Earth and Environment Learning and teaching committee (rotational basis)
2005 – 2006	Director of the Masters in Ecological Economics program
2003 - 2004	School of Earth and Environment Fixed-term contract working group

### **University (University of Leeds, UK).**

2009 – present	International regional working group on Japan
2009 – present	Working group on the establishment of a University Doctoral Training Center

### **Other Universities.**

External Examiner for MPhil (by thesis) - James Johnston, Title: " Constraints to material flow reduction

in a dynamic economy-environment system” at the Department for Land Economy, University of Cambridge, UK.

External Examiner for PhD - Alexandros Gasparatos. Title: "Sustainability assessment with reductionist tools: Methodological issues and case studies" at the Department for Civil Engineering, University of Dundee, Scotland. 2009.

External Examiner for PhD – Tao Wang. Title: "Evaluating the cost effectiveness of river water quality management in the tidal Ouse: optimization of integrated river policy" at the Environment Department, University of York, England. 2006.