

Curriculum Vitae (of selected merits) and list of publications

Docent, Dr. Jouni Korhonen

EDUCATION

- Ph.D. 2001, University of Jyväskylä School of Economics and Business Administration. Ph.D. thesis published in November 2000. Publicly defended against the Official Opponent: Professor John Ehrenfeld, MIT, Cambridge, Massachusetts, USA.
- MA. University of Tampere. School of Economic and Administrative Sciences. 1998.
- BA. University of Tampere. School of Economic and Administrative Sciences. 1998.

POSITIONS IN INTERNATIONAL SCIENTIFIC EXPERT BOARDS/ SOCIETIES AND EDITOR OF INTERNATIONAL SCIENTIFIC JOURNALS

- Chairman and Founder (together with Richard Welford, University of Hong Kong) of the *International Sustainable Development Research Society* (www.isdrs.org). Chairman together with Richard Welford 2006-2010.
- Chairman of the *Finnish Society for Industrial Ecology*. 2004—Currently. Founder together with Jyri Seppälä and Riina Antikainen (Finnish Environment Institute SYKE) and Antero Honkasalo (Ministry of Environment, Finland).
- Editor-in-Chief of *Progress in Industrial Ecology*, Inderscience Publishers (www.inderscience.com/pie) 2002-2011.
- Industrial Ecology Subject Editor (Associate Editor) of *Journal of Cleaner Production*, Elsevier Science (www.elsevier.com/locate/jclepro), for six years 2002-2008.
- Guest Editor, the **triple** (26 articles) special issue 'Applications of Industrial Ecology' of the *Journal of Cleaner Production*, Vol. 12, Numbers 8-10, 2004.
- Guest Editor, special issue 'From Material Flow Analysis to Material Flow Management'. *Journal of Cleaner Production*, Vol. 15, Number 17, 2007.
- Guest Editor, *Business Strategy and the Environment*, Special issue 'Strategic Sustainability Management', Volume 17 Issue 7, November 2008.
- Guest Editor, *Business Strategy and the Environment*, Special issue 'Business and Industrial Ecology', Volume 13 Issue 5, September/October 2004.
- Guest Editor, *Sustainable Development*, Special issue 'Strategic Approaches to Sustainability Policy and Management. 2010 (complete citation available at WWW.ERPENVIRONMENT.ORG)
- Editorial board member of five international scientific peer-reviewed journals during 2001-2010 and numerous reviewer roles.

WORK EXPERIENCE

- Academy Research Fellow (Akatemiatutkija). 5 year position, 1.8.2005-31.7. 2010. Academy of Finland, Bio and Environmental Science Council.
- Research Professor of Industrial Ecology and New Recycling Technologies at VTT Technical Research Centre of Finland (VTT). Full professor position. Appointed May 11. 2012. I am no longer in this job.
- Research Professor. University of Tampere. Appointed February 1, 2004 until March 31, 2005.
- Research Director (Responsible Leader) of Academy of Finland Indicator Framework for Eco-efficiency (IFEE) consortium, four-year project with 760 000 euro (2007-2010). Sustainable Production and Products (KETJU) Programme from Natural Science and Technology Council (in collaboration with the Bio-and Environmental Science Council).
- Research Director (Responsible Leader) of Academy of Finland Industrial Symbiosis System Boundaries (ISSB) consortium, four-year project with 440 000 euro (2007-2010). Sustainable Production and Products (KETJU) Programme from Natural Science and Technology Council (in collaboration with the Bio-and Environmental Science Council).

- Research Director (Responsible Leader) of Academy of Finland project 'Getting Deeper with DRIL: Building Industrial Ecosystem Indicators (DRIL)' (2005-2008).
- Research Director (Responsible Leader) of Academy of Finland project 'Regional Industrial Ecosystem Management (RIEM)' (2002-2004).
- UTACAS (professor-Level) Fellow, University of Tampere Centre of Advanced Study (salary level of a full professor: A 28), 2004--2005.
- Visiting Researcher. Harvard University. Cambridge, MA, USA. 1.4.1998 - 30.9. 1998 (with continuous off-site research collaboration and regular periodical visits at Harvard until 2002, when Professor Donald W. Oliver passed away).
- Docent (Adjunct Professor) of *Environmental Policy*, University of Helsinki. Appointed May 11, 2006 (life-long position).
- Docent (Adjunct Professor) of *Business Economics*, especially *Management*. University of Eastern Finland, Appointed February 2002 (life-long position)
- Research Director. Åbo Akademi University, Faculty of Technology, Department of Industrial Management (1.4.2007-31.7.2010).
- Research Programme Director. University of Tampere, School of Economics and Business Administration. (1.8. 2005-31.3.2007).
- Member of the Prime Minister's Finnish Committee on Sustainable Development for four years 2009—2012. I was representing the science societies in the committee. There were two science representatives in the committee. The other one was the representative of the Rectors' Council of Finnish Universities, Professor Riitta Keiski.

Practical and business/industry experience

Dr. Korhonen has extensive and diverse practical business/industry experience and this will be described more thoroughly upon request.

GRANTS AND RESEARCH FUNDING, EUROS, €:

Academy of Finland, 2006	760 000
Academy of Finland, 2006	440 000
Academy of Finland, 2005	250 000
Academy of Finland, 2004	229 000
Academy of Finland, 2001	127 000
European Union (EC), 2005	38 000
National Agency for Technology and Innovation (TEKES), 2001	37 000
National Agency for Technology and Innovation (TEKES), 2009	243 000
Emil Aaltonen Foundation 2003	190 000
Southern Finland Regional Agency, 2005	14 000
Finnish Foundation for Economic Education 1999	10 000
Finnish Foundation for Economic Education 2000	8 400
Finnish Culture Foundation. 1999	5 000
Emil Aaltonen Foundation. 2000	13 400

Niemi/Junnila Foundation. 2000	3 000
Jyväskylä Business Foundation. 1999	1 300
Tampere Academic Foundation. 1998	1 700
Fortum Energy Companies. 2000	1 000
MetsäSerla Forest Companies. 2000	1 700
Jyväskylä University	3 000
Alfred Kordelin Foundation, 2001	2 500
Fortum Energy, Power & Heat and TEKES Finland. 2001	20 200
Rejlers Oy, 2005	14 000

OTHER EXPERIENCE INCLUDING DOMESTIC AND INTERNATIONAL PH.D SUPERVISION, PH.D REVIEW AND REVIEWER ROLES FOR INTERNATIONAL PROFESSOR, DOCENT, HABILITATION AND READER POSITIONS

- Supervisor of the Ph.D thesis of **Dr. Juha-Pekka Snäkin**, Faculty of Forestry, University of Joensuu. Area: Industrial ecology of biomass and biofuels (including waste-derived fuels) and their CO2 budgets. Snäkin successfully defended on December 19th, 2003 and the Ph.D thesis has been published.
- Supervisor of **Dr. Ville Niutanen**, University of Joensuu School of Economics. Niutanen defended successfully on February 4, 2005 and the thesis has been published. Area: The theme of the work was integrated regional energy production and waste management systems, e.g. anaerobic digestion (AD) technologies.
- Supervisor of the Ph.D thesis of **Dr. Johanna Kirkinen**. The thesis was defended and accepted in June 2010 at Åbo Akademi University. Area: The theme was biofuels and climate change mitigation from the perspective of international climate change mitigation policies.
- Official reviewer for the Ph.D thesis of **Dr. Otieno Mbare**, School of Business and Economics, Åbo Akademi. Fall, 2004. Area: Corporate Social Responsibility.
- Official Co-examiner and opponent for the Ph.D thesis of **Dr. Arnim Wiek**, Swiss Federal Institute of Technology (ETH Zurich), on 'Analytical, Projective and Evaluative Methods for Decision-making in Transition Processes', spring 2005.
- Official Reviewer and opponent of the Ph.D thesis of **Dr. Jyrki Heino**, University of Oulu, Department of Process and Environmental Engineering. Area: The theme was industrial ecology in mining and metallurgical processes.
- Official Reviewer of the Ph.D thesis manuscript of **Anja Yli-Viikari**, Area: Use of Indicators in Environmental Policy of Agriculture. University of Helsinki 2011.
- Official reviewer of the Ph.D thesis of **Dr. Aleksander Dahlsrud**. Area: Corporate Social Responsibility. Norwegian University of Science and Technology, Fall 2009.
- Official reviewer for the habilitation proceedings of **Dr. Alfred Posch**, May, 2005, University of Graz, Austria. Area: Industrial recycling networks.
- Official Reviewer for the Readership position of **Dr. Frank Figge**, University of Leeds, Area: Sustainable Value Added, Fall 2005.
- Official Reviewer for the Readership Position of **Dr. Peter Strachan**. Business Economics, Management and Organisations. The Robert Gordon University, Aberdeen, UK. Spring 2006.
- Official Reviewer for the Professor Position of **Dr. Peter Strachan**, Business Economics, Management and Organisations. The Robert Gordon University, Aberdeen, UK. Spring 2009.
- Official Reviewer for the Associate Professor Position of **Dr. Tomas Seager**, Arizona State University, Spring 2010. Area: Material and energy flows and decision-making in sustainability science.
- Official reviewer for the Docent (Adjunct Professor) position of **Dr. Eva Pongraz**, University of Oulu. Area: Industrial ecology and waste management. Winter 2007.

Publications

Jouni Korhonen (year of birth 1973)

ARTICLES IN REFEREED INTERNATIONAL SCIENTIFIC JOURNALS

1. Burström, F. and Korhonen, J. 2001. Municipalities and Industrial Ecology: Reconsidering municipal environmental management. *Sustainable Development*. Vol. 9, Number 1 (February 2001). pp. 36-46.
2. Korhonen, J. 2001. Some Suggestions for Regional Industrial Ecosystems. *Eco-Management and Auditing*. Vol 8, Number 1. (March 2001) pp. 57-69.
3. Korhonen, J. 2001. Four Ecosystem Principles for an Industrial Ecosystem. *Journal of Cleaner Production*. Volume 9/3, (2001), pp. 253-259.
4. Korhonen, J. 2001. Industrial Ecosystems – Some conditions for success. *The International Journal of Sustainable Development and World Ecology*. 8 (2001), pp. 29-39.
5. Korhonen, J. 2001. Co-Production of Heat and Power: An Anchor Tenant of a Regional Industrial Ecosystem. *Journal of Cleaner Production*. Vol. 9, no. 6, pp. 509-517.
6. Korhonen, J. 2000. Completing Industrial Ecology Cascade Chain in the Case of a Paper Industry – SME potential in Industrial Ecology. *Eco-Management and Auditing*, vol 7, number 1. pp. 11-20.
7. Korhonen, J., Wihersaari, M. and Savolainen, I. 2001. Industrial Ecosystem in the Finnish Forest Industry: Using the material and energy flow model of a forest ecosystem in a forest industry system. *Ecological Economics*. Vol. 39/1, pp. 145-161.
8. Korhonen, J., Wihersaari, M. and Savolainen, I. 1999. Industrial Ecology of a Regional Energy Supply System - The Case of Jyväskylä Region, Finland. *Greener Management International*, 26, 1999. pp. 57-67.
9. Korhonen, J. 2001. Regional industrial ecology: examples from regional economic systems of forest industry and energy supply in Finland. *Journal of Environmental Management* (2001), 63, pp. 367-375.
10. Korhonen, J. 2001. Material and energy flows in corporate environmental management. *The International Journal of Sustainable Development and World Ecology*. 8, 2001. pp. 211-219.
11. Korhonen, J. and Savolainen, I. 2001. Cleaner energy production in industrial recycling networks. *Eco-Management and Auditing*. Vol. 8, Issue 3, 2001, pp. 144-153.
12. Korhonen, J. and Snäkin, J-P. 2001. An anchor tenant approach to network management – Considering regional material and energy flow networks. *International Journal of Environmental Technology and Management*. Volume 1, No. 4, 2001. pp. 444-463.
13. Niutanen, V. and Korhonen, J. 2002. Management of old landfills by utilising forest and energy industry waste flows. *Journal of Environmental Management* (2002) 65, pp. 39-47.
14. Snäkin, J-P. and Korhonen, J. 2002. Industrial ecology in the North Karelia Region in Finland – Scenarios for heating energy supply. *The International Journal of Sustainable Development and World Ecology*. Vol. 9, Number 1, March 2002. pp. 9-21.
15. Korhonen, J. 2002. Two Paths to Industrial Ecology: Applying the Product-based and Geographical Approaches. *Journal of Environmental Planning and Management*. Volume 45, Number 1/January 1, 2002. pp. 39-57.
16. Niutanen, V. and Korhonen, J. 2003. Toward a regional management system – Waste management scenarios in Satakunta Region, Finland. *International Journal of Environmental Technology and Management*. Vol. 3, No. 2. pp. 131-156.
17. Korhonen, J. and Niutanen, V. 2003. Material and energy flows of a local forest industry system in Finland. *Sustainable Development*. Volume 11, Issue 3, 2003. pp. 121-132.
18. Korhonen, J. 2002. The Dominant Economics Paradigm and Corporate Social Responsibility. *Corporate Social Responsibility and Environmental Management*. Volume 9, Number 1, pp. 67-80.

19. Korhonen, J. 2002. A material and energy flow model for co-production of heat and power. *Journal of Cleaner Production* 10 (2002), pp. 537-544.
20. Korhonen, J., Niemeläinen, H. and Pulliainen, K. 2002. Regional industrial recycling network in energy supply – The case of Joensuu city, Finland. *Corporate Social Responsibility and Environmental Management*, Volume 9, Number 3, pp. 170-185.
21. Korhonen, J. 2003. Should we measure corporate social responsibility? *Corporate Social Responsibility and Environmental Management*. Volume 10, Number 1. pp. 25-39.
22. Niutanen, V. and Korhonen, J. 2003. Industrial Ecology Flows of Agriculture and Food Industry – Utilizing By-products and Wastes. *The International Journal of Sustainable Development and World Ecology*. 10 (2003), pp. 133-147.
23. Korhonen, J. and Snäkin, J-P. 2003. Industrial Ecosystem Evolution of North Karelia Heating Energy System. *Reg. Environ. Change*, (2003) 3, pp. 128-139.
24. Korhonen, J., Okkonen, L. and Niutanen, V. 2004. Industrial ecosystem indicators – Direct and indirect effects of integrated waste- and by-product management and energy production. *Clean Technologies and Environmental Policy*. Volume 6, Number 3 (July, 2004), pp. 162-173.
25. Korhonen, J. and Niutanen, V. 2004. What is the potential of the ecosystem metaphor in agricultural and food industry systems? *International Journal of Agricultural Resources, Governance and Ecology*. Vol. 3, Nos 1-2. pp. 33-57.
26. Korhonen, J. 2003. On the ethics of corporate social responsibility – Considering the paradigm of industrial metabolism. *Journal of Business Ethics*. 48 (4), pp. 301-315.
27. Korhonen, J. 2004. Industrial Ecology in the Strategic Sustainable Development Model: Strategic Applications of Industrial Ecology. *Journal of Cleaner Production*, Vol 12, Issues 8-10, pp. 809-823.
28. Korhonen, J., Savolainen, I. and Ohlström, M. 2004. Applications of the Industrial Ecology Concept in a Research Project: Technology and Climate Change (CLIMTECH) Research in Finland. *Journal of Cleaner Production*. Vol 12, Issues 8-10, pp. 1087-1097.
29. Korhonen, J., Huisingh, D. and Chiu, A.S.F. 2004. Applications of industrial ecology. *Journal of Cleaner Production*, Vol 12, Issues 8-10, pp. 803-807.
30. Korhonen, J. and Strachan, P. 2004. Toward progress in industrial ecology. *Progress in Industrial Ecology – An International Journal*. Volume 1, Numbers 1-3. pp. 1-23.
31. Korhonen, J. 2004. Theory of industrial ecology. *Progress in Industrial Ecology – An International Journal*. Volume 1, Numbers 1-3, pp. 61-88.
32. Korhonen, J. 2005. Industrial ecology for sustainable development - Six controversies in theory building. *Environmental Values* 14 (2005), pp. 83-112.
33. Korhonen, J., von Malmborg, F., Strachan, P. A. and Ehrenfeld, J. E. 2004. Management and policy aspects of Industrial Ecology: an emerging research agenda. *Business Strategy and the Environment* Vol. 13, No. 5 (September 2004), pp. 289-305.
34. Korhonen, J. 2005. Do we really need the debate on the natural ecosystem metaphor in technology management and sustainable development literature? *Clean Technologies and Environmental Policy*. Volume 7, Number 1 (January 2005), pp. 33-41.
35. Korhonen, J. and Snäkin, J-P. 2005. Analysing the evolution of industrial ecosystems – Concepts and application. *Ecological Economics*, 52, (2005), pp. 169-186.
36. Korhonen, J. 2005. Theory of Industrial Ecology – The Case of the Concept of Diversity. *Progress in Industrial Ecology*, Vol. 2, Number 1, pp. 35-72.
37. Korhonen, J. 2005. On the Strategy of Industrial Ecology. *Progress in Industrial Ecology*, Vol. 2, Number 2. pp. 149-165.
38. Korhonen, J. 2006. On the paradox of corporate social responsibility: How can we use social science and natural science for a new vision? *Business Ethics: A European Review*, Vol. 15, Number 2, April 2006, pp. 200—214.
39. Keitsch, M. and Korhonen, J. 2006. On the theoretical dimensions of industrial ecology. *Progress in Industrial Ecology – An International Journal*, Vol. 3, Nos. 1/2, pp. 1— 9.

40. Korhonen, J. 2006. Are sustainability science research societies strategic? *Progress in Industrial Ecology*, Vol. 3, Number 5. pp. 409-417.
41. Korhonen, J. 2006. Sustainable development in a shrinking and sinking world. *Progress in Industrial Ecology*, Vol. 3, Number 6. pp. 509-521.
42. Korhonen, J. 2007. Environmental Planning VS. Systems Analysis: Four Prescriptive Principles VS. Four Descriptive Indicators. *Journal of Environmental Management*, Vol 82, Issue 1, pp. 51-59.
43. Korhonen, J. 2007. From Material Flow Analysis to Material Flow Management: strategic sustainability management on a principle level. *Journal of Cleaner Production* 15 (17), pp. 1585-1595.
44. Hoffren, J. and Korhonen, J. 2007. Eco-efficiency is important when it is strategic. *Progress in Industrial Ecology*, Vol. 4, Nos 1/2. pp. 1-18.
45. Korhonen, J. 2008. Reconsidering the economics logic of ecological modernization. *Environment and Planning A*, Vol. 40, pp. 1331-1346.
46. Korhonen, J. and Seager T. 2008. Beyond eco-efficiency: A resilience perspective. *Business Strategy and the Environment*. Volume 17 Issue 7. pp. 411- 419.
47. Melanen, M. and Korhonen, J. 2008. The dimensions of industrial symbioses and their system boundaries. *Progress in Industrial Ecology*, Vol. 5, Nos 5/6, pp. 389–398.
48. Korhonen, J. and Baumgartner, R. 2009. The industrial ecosystem balanced scorecard. *International Journal of Innovation and Sustainable Development*. Volume 4 Number 1. pp. 24-42.
49. Baumgartner, R. J., and Korhonen, J. 2010. Strategic Thinking for Sustainable Development. *Sustainable Development*, 18(2), pp. 71-75.