SEPPO ILMARI JUNNILA

PERSONAL INFORMATION

- Marital status: married, one child
- Nationality: Finnish
- Age: 38
- Place of Birth: Kiikka, Finland

EDUCATION

2002 - 2004 Helsinki University of Technology Helsinki, Finland Doctor of Technology/Civil and Environmental Engineering

Grade: Pass with distinction

1995 - 1998 Helsinki University of Technology Helsinki, Finland Licentiate in Technology/Civil and Environmental Engineering

■ Grade: Pass with distinction

1996 - 1997 Helsinki School of Economics Helsinki, Finland *Proficiency in Environmental Management*

1997 The University of Budapest Budapest, Hungary CRE Copernicus Seminar on Environmental and Resource Economics

1995 Université de Savoie Chambéry, France French Culture and Language

1987 - 1994 Helsinki University of Technology Helsinki, Finland Master of Science in Technology/Civil and Environmental Engineering

1992 Eindhoven University of Technology The Netherlands *Proficiency in Intercultural Communication and Management*

1990-91 Franz Leopold Universität Innsbruck, Austria Specializing in Construction Economics and Management

WORK EXPERIENCE

2005 - Helsinki University of Technology, Department of Construction Economics and Management Helsinki, Finland Senior Research Scientist

2002 University of California, Berkeley, Department of Civil and Environmental Engineering Berkeley, California, U.S.A *Visiting Scholar*

■ 3 academic papers

1998 - 2005 Jaakko Pöyry Infra

Espoo, Finland

Department Manager and Head of Business Development

- Established and managed a new business unit: Environmental Services
- Developed 4 sustainability training courses: Sustainability in Business, Environmental Management of Construction Projects, Environmental Reporting and Management Systems, Life Cycle Design
- 7 major sustainability design management projects for buildings
- 5 major environmental strategy and management system projects for ICT, banking and real estate companies and public sector organizations
- Development of a sustainability rating system (PromisE) for old and new buildings, commissioned by the Ministry of Environment

2002 - 2004 Helsinki University of Technology, Department of Construction Economics and Management Helsinki, Finland

- Senior Research Scientist
- Doctoral Dissertation
- Innovation, funding and management of research projects worth \$650K
- 13 academic papers, average grade of 4 (from 1 to 5) in scientific reviews
- 12 different research partners
- Instructor of 1 PhD and 2 master's students

1997 Environmental Management and Law Association, USA based NGO in Hungary Budapest, Hungary

Visiting Researcher

 Pre-study of adapting the ISO 14000 environmental management system standard to Hungarian conditions

1996 Ekonomikoulu Oy Helsinki Finland

Teacher, Business Mathematics

- Developed and taught a new course preparing students for the admission test of The Helsinki School of Economics
- In all 120 students
- Scored 4,5 (5 max) in performance of teaching, highest of all teachers

1995 - 1998 Helsinki University of Technology, Department of Construction Economics and Management Helsinki, Finland Researcher

- Developed a LCA based design framework for buildings
- Taught courses on Conceptual design, Design management and Facility management

REFEREED JOURNAL ARTICLES

Junnila, S. (2005). Empirical Comparison of Process and Economic Input-Output Life Cycle Assessment in Service Industries. Journal of Environmental Science and Technology. *Submitted October 24, 2005*.

Junnila, S. (2005). Alternative Scenarios for Managing the Environmental Performance of a Service Sector Company. Journal of Industrial Ecology. *Accepted Marsh 27, 2005*.

Junnila, S. (2004). The environmental significance of facilities in service sector companies. Facilities 2004 Vol. 22, Iss. 7/8, pp. 190-198. Emerald Group Publishing Limited.

Junnila, S. (2004). Life cycle assessment of environmentally significant aspects of an office building. Nordic Journal of Surveying and Real Estate

Research (NJSR) Special Series, Vol. 2.

Junnila, S., Horvath, A. & Guggemos, A. (2004). Life-cycle assessment of office buildings in Europe and the U.S. Journal of Infrastructure Systems. ASCE. *Accepted April 12, 2004*.

Junnila, S. & Horvath, A. (2003). Life cycle environmental effects of an office building. Journal of Infrastructure Systems, Vol. 9, Iss. 4, pp. 157-166. ASCE.

REFEREED CONFERENCE PAPERS

Nousiainen, M., Lehtonen, T. & Junnila, S. Increasing the value of facility management by environmental management service. Second International Conference - Clients Driving Innovation: Moving Ideas into Practice, 12-14 March 2006. *Accepted October 28, 2005*.

Junnila, S. & Nousiainen, M. (2005). Applying life cycle assessment to determine the environmental potential the existing facilities offer to the user organization. World Sustainable Building Conference SB05Tokyo. September 27-29, 2005.

Junnila, S. (2005). Implication of a Service System Approach in the Life Cycle Assessment of Buildings. Augusti, G., Shuëller, G.I. & Ciampoli, M. (eds.) 9th International Conference On Structural Safety And Reliability, June 19-23, 2005. Rome, Italy.

Nousiainen, M. & Junnila, S. (2005). The Growth of Environmental Requirements in International Facilities Management. In: Tulla, K.: Facilities Business and its Management, Combining Forces Advancing Facilities Management & Construction through Innovation Series. 11th CIB International Symposium, Combining Forces, Helsinki, June 13-16. Finland. VTT-Technical Research Centre of Finland, RIL-Association of Finnish Civil Engineers. pp. 560-572.

Junnila, S. (2005). Applying life cycle assessment to determine the environmentally significant activities of a service company. Korhonen, J. (ed.) 11th Annual International Sustainable Development Research Conference, June 6-8, 2005 Finlandia Hall, Helsinki, Finland.

Nousiainen, M. & Junnila, S. (2005). The Potential of Facility Management to Encourage Facility User's Environmental Work - a Case Study. In: The European Facility Management Conference 2005 Proceedings. Frankfurt, April 19-21. Berlin. VDE Verlag GMBH. pp. 553-563.

Junnila, S. & Nousiainen, M. (2004). The environmental contribution of an office building to the user organization's environmental impact. In Then, D., Jones, K. & Hinks, J. (eds.) Facilities Management and Maintenance, Human Elements in Facilities Management – Understanding the Needs of Our Customers. CIB W70 Symposium, December 7-8, 2004. Hong Kong 2004.

Nousiainen, M. & Junnila, S. (2004). Environmental management of facilities in service and light industries. In Bröchner, J. & Haugen, T.I. (eds.) The Third European Research Symposium in Facilities Management, Copenhagen, 12-14 May 2004. pp. 131-138.

Junnila, S. & Horvath, A. (2003). Environmental sensitivity analysis of the life cycle of an office building. In: Sarja A. (ed.) Proceedings of integrated lifetime engineering of buildings and civil infrastructures, ILCDES 2003. Kuopio, Finland. December 1-3, 2003. Association of Finnish Civil Engineers. pp. 215-220.

Junnila, S. (2003). Identification of environmental impact of office buildings by building element and material groups. In: Sarja, A. (ed.) Proceedings of integrated lifetime engineering of buildings and civil infrastructures, ILCDES 2003. Kuopio, Finland. December 1-3, 2003. Association of Finnish Civil Engineers. pp. 433-438.

Junnila, S. (2003). Estimating the environmental aspects of an office building's life cycle. In: Bontempi, F. (ed.) Proceedings of the second international conference on structural and construction engineering, ISEC-02. Rome, Italy. September 23-25, 2003. Lisse, the Netherlands. Balkema publisher. pp. 1685-1690.

Junnila, S. & Rintala, T. (2002). Comprehensive LCA reveals new critical aspects in offices. Sustainable Building 2002. International conference 23.-25. September. Oslo. Norway. CD-ROM.

TECHNICAL REPORTS

Junnila, S. (2005). Transforming sustainability costs to sustainability business in property management. The European Facility Management Conference 2006 Proceedings. Frankfurt, March 7-9.

Junnila, S. (2004). Comparative life cycle assessment of three office buildings. Saari A. (ed.) Helsinki University of Technology, Construction Economics and Management, A Research Reports, TKK-RTA-A1. Espoo, Finland. ISBN 951-22-7248-2. ISSN 1795-2700.

Junnila, S & Nousiainen, M. (2004). Environmental management of office premises (in Finnish). Helsinki University of Technology, Faculty of Civil and Environmental Engineering, Construction Economics and Management, Report No 225. Espoo. Finland. ISBN 951-22-7158-3. ISSN 1456-9329.

Nousiainen, M. & Junnila, S. (2004). Environmental objectives of companies operating in service and light industries (in Finnish). Helsinki University of Technology, Faculty of Civil and Environmental Engineering, Construction Economics and Management, Papers No 51. Espoo. Finland. ISBN 951-22-6907-4. ISSN 1456-8404.

Nousiainen, M., Junnila, S. & Puhto J. (2003). The facility management, a driver for improved environmental performance of premises (in Finnish). Helsinki University of Technology, Faculty of Civil and Environmental Engineering, Construction Economics and Management, Reports No. 220. Espoo. Finland. ISBN 951-22-6673-3. ISSN 1456-9329.

Vahala, K. & Junnila, S. (2002). Environmental service product package for real estate sector. Sustainable Building 2002. International conference 23.-25. September. Oslo. Norway. CD-ROM.

Junnila, S. (2001). Reuse and Recycling in Design for Environment (in Finnish). *In* Integrated Life Cycle Design. RIL 216-2001. Association of

Finnish Civil Engineers. ISBN 951-758-414-8. ISSN 0356-9401

Junnila, S. & Saari, A. (1998). Environmental Burdens of a Finnish Apartment Building by Building Elements in the Context of LCA (in Finnish). Helsinki University of Technology. Faculty of Civil and Environmental Engineering. Construction Economics and Management. Report 167. ISBN 951-22-4075-0. ISSN 1455-5913.

Junnila, S. & Saari, A. (1997). Material and Energy Flow Estimation for Building Elements in the Context of LCA (in Finnish). Helsinki University of Technology. Faculty of Civil and Environmental Engineering. Construction Economics and Management. Report 150. ISBN 951-22-3652-4. ISSN 0784-221X.

DISSERTATIONS

Junnila, S. (2004). The environmental impact of an office building throughout its life cycle (Doctoral Dissertation). Helsinki University of Technology, Construction Economics and Management, A Research Reports, Espoo, Finland.

Junnila, S. (1998). Quantitative estimation of environmental burdens of a Finnish apartments building, (Licentiate Theses). Helsinki University of Technology, Faculty of Civil and Environmental Engineering, Construction Economics and Management.

Junnila, S. (1994) The indicators for selecting a cost effective production method for wood structured apartment houses, (Master's Theses). Helsinki University of Technology, Faculty of Civil and Environmental Engineering, Structural Engineering and Building Physics..

LANGUAGES

Mother tongue is Finnish Excellent command of English Good command of German Good command of Swedish Basic knowledge of French

DESIGN AND CONSULTANCY ASSIGNMENTS

Design work:

2001	Environmental management systems, Nokia Real Estate
2001	Environmental management systems, HUS-Kiinteistöt Oy
2001	Wiklund department store, environmental targets of renovation project, SOK Facilities
2001	HTC Porkkalantalo office building, Life cycle design of a new construction, Kapiteeli Ltd
2000	Development of environmental rating system PromisE for buildings, Ministry of Environment

	2000	Development of environmental auditing systems for service suppliers, Kesko Ltd	
	2000	Life cycle control and life cycle assessment of a head office building, Nokia Ltd	
	2000	Commercial center Iso-Omena, life cycle design, Aleksia Ltd	
	1999	Leija-environmental center, environmental targets and profile,Vantaanportti Oy	
	1999	Commercial center CM- Lielahti environmental consultancy, rating and auditing, Kesko Ltd	
	1999	Finnish Parliament, architectural competition of extension of parliament building, environmental assessment	
	1999	Unionikatu 25, ecological targets of renovation project, HKR	
	1999	Day-care center Merituuli, environmental design, HKR	
	1998	Environmental profiles of Kontula and Kallahti day-care centers, HKR	
	1998	Environmental profile of HKR Real Estate,	
Consultancy:			
	2004	User-Electricity Management, Nordea Ltd	
	2004	Corporate Sustainability Strategy, Ovenia Ltd	
	2002	Corporate Social Responsibility report, Kesko Ltd	
	2000	Office development project, Environmental strategy, Kapiteeli Ltd	
	2000	Environmental training, Polar Ltd	
	2000	Development of environmental criteria for purchasing electricity for facilities, Kesko Ltd	
	2000	Environmental strategy, Polar Ltd	
	2000	Sustainable Building Rating, GBTool, Finnish localization, RAKLI	
	2000	Environmental influence of electricity purchasing, Kestra Oy	
	2000	Commercial center Iso-Omena, environmental consultancy, Aleksi Ltd	
	2000	Environmental audit of hospitals, HYKS-kiinteistöt Oy	
	2000	Environmental audit of real estate facilities, Aleksia Oy	
	2000	Environmental aspect definition of stake holders, Aleksia Oy	
	2000	External environmental costs of real estate sector, Ministry of	

Environment

- 1999 Environmental strategy for real estates, Kesko Ltd
- 1999 Guidelines for life cycle design of buildings, RIL, Association of Finnish Civil Engineers

PROFESSIONAL MEMBERSHIPS

Consortium on Green Design and Manufacturing at UC Berkeley, California, USA

Member of Finnish National Board in the Conference Sustainable Building.