

## Contributors

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**Peter Århem**, Professor, Nobel Institute for Neurophysiology and Department of Neuroscience, Karolinska Institute, Stockholm, and Agora for Biosystems, Sigtuna. Århem's work involves experimental and computational studies of neuronal activity, from molecular to systems level. Current research areas concern mechanisms of anesthesia.

**Anna Björklund**, Dr., Environmental Strategies Research Group (fms), Stockholm. Works with strategic environmental assessments, specifically life cycle assessment (LCA) of waste management systems.

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**Tomas Ekvall**, Acting Professor, Department of Energy Conversion, Chalmers University of Technology, Göteborg. Professor Ekvall is head of the Energy Systems Technology Division at Chalmers. With a background in life cycle assessment and energy systems analysis, he is currently responsible for research on energy and waste systems modeling. His research interest includes the development of tools for environmental systems analysis that aim at describing environmental consequences of decisions.

**E. Anders Eriksson**, Dr., Head, Department of Technology and Acquisition Strategy, The Swedish Defense Research Agency (FOI), Stockholm. Eriksson's research interests include Technology & Innovation, ICT related change in emergence and conduct of conflict, and Scenario Planning.

**Lena Ewertsson** holds a PhD in Technology and Social Change from Linköping University. She is currently a research fellow in the Department of Journalism and Mass Communication, Göteborg University. Her published works include *The Triumph of Technology Over Politics? Reconstructing Television Systems: The Example*

of Sweden (2001). She is currently studying institutional change and entrepreneurial actions in the contemporary reshaping of television systems, with a particular focus on Sweden.

**Göran Finnveden**, Dr., Research leader, Environmental Strategies Research Group (fms), Swedish Defense Research Agency (FOI), Stockholm. Finnveden has a background in research on Environmental Life Cycle Assessment, working with both development of methodology and case studies. During recent years his interest has widened to include other types of environmental systems analysis tools such as Strategic Environmental Assessment and Environmentally Extended Input-Output Analysis.

**Martin Fredriksson**, M. Sc., conducts his research within the Societies of Computation (soc) research program at Blekinge Institute of Technology (BTH). His research mainly involves theory and practice of behavior in complex multi-agent systems, i. e., open computational systems. He is also responsible for the coordination of the *Societies of Computation Laboratory* (SOCLAB), where theory in practice is considered as the general rule of conduct.

**Rune Gustavsson** is Professor in computer science at Blekinge Institute of Technology (BTH). Gustavsson is also an active member of two EU Networks of Excellence (NoE), *AgentLinkII* and *OntoWeb* and he is a member of the international standardization body for agent technologies *fipa*. Gustavsson has published over 60 refereed international journal papers, book chapters, and conference papers in various fields of distributed intelligence, knowledge sharing, and agent methodologies based on projects concerning industry and society. Gustavsson is also a working member of the newly formed International Institute for Critical Infrastructures (CRIS).

**Einar Holm**, Professor, Head of the Department of Social and Economic Geography, Umeå University, Umeå, and Director of the Spatial Modeling Center (SMC), Kiruna. His core research field is spatial micro simulation based on time geography, agent based representation and large individual databases. His research and publications mainly relate to spatial analysis, population geography, economic geography and regional policy.

**Lars Ingelstam**, Tekn Dr, Professor at the Department of Technology and Social Change, Linköping University 1980–2002. Former head of the Secretariat for Future Studies (1973–1980). He has published works on mathematics, operations research, planning theory, the post-industrial society and socio-technical systems. Most recently, Ingelstam authored an analytical survey *Systems – Thinking about Society and Technology* (2002, in Swedish).

**Hans Liljenström**, Professor, Department of Biometry and Informatics, Swedish University of Agricultural Sciences (SLU), Uppsala, and Agora for Biosystems, Sigtuna. Liljenström is a theoretical biophysicist, trained at the Royal Institute of Technology, Stockholm. His work involves mathematical and computer modeling of biological systems, from molecular to systems level. Current research areas concern stability and flexibility in neural and genetic networks. He is co-founder and director of the interdisciplinary research center Agora for Biosystems under the auspices of the Royal Swedish Academy of Sciences.

**Anita Linell**, M. Sc., Section of Environment and Health, National Institute of Public Health, Stockholm. Previously Linell worked with the Swedish Environmental Protection Agency (SEPA), Stockholm. Natural scientist and economist. Former head of the Operations Research Group at the Navy Staff, The Swedish Defense Research Agency, Stockholm. As a project leader at the Research Department, SEPA, she worked on comprehensive future oriented studies concerning sustainable development. During recent years her interest has been focused on how to use systems analytical tools in studies where complex problem solving has to be combined with the maintenance of a democratic process.

**Åsa Moberg**, M. Sc., Environmental Strategies Research Group (fms), Swedish Defense Research Agency and Department of Systems Ecology, Stockholm University, Stockholm. Moberg has worked with different types of environmental systems analysis tools, such as Environmental Life Cycle Assessment and Strategic Environmental Assessment, as well as the relationships between different types of tools. She has also worked on comprehensive future oriented studies, especially on transport systems and their environmental impacts.

**Mats-Olov Olsson**, Research scholar, Centre for Regional Science (CERUM) at Umeå University. For a number of years he served as the scientific secretary to the Swedish membership organization of IIASA, the International Institute for Applied Systems Analysis in Austria. In the period 1997–2001 he worked in the Forestry Project at IIASA on a study of the institutional embedding of the Russian forest sector.

**Semida Silveira** is the executive director of Sustainable Vision, a company supporting sustainable development through business and capacity building. She holds a PhD in regional planning from the Royal Institute of Technology and has also done research at MIT and IIASA. Previous positions include environment and climate expert at the Swedish Energy Agency, and manager for climate and energy programs at the Stockholm Environment Institute (SEI).

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**Mats G. E. Svensson**, Dr. Ecol., Ass. Prof. in Biogeochemistry at Chemical Engineering, Lund. Active at the Environmental Science Center at Lund University, (MILCU). Dr. Svensson is involved in a number of systems analysis courses at graduate and post-graduate level at Lund University. He has been involved in netbased systems analysis teaching. His research is focused on systems analysis of global and regional

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**Harald Sverdrup**, Dr. Tech., Professor of Biogeochemistry at Chemical Engineering II, Center for Chemistry and Chemical Engineering, Lund. Sverdrup is involved in systems analysis and model development in the fields of acid deposition assessment modeling, development of sustainable forestry and research in sustainable agricultural food production. Sverdrup also teaches a number of courses in systems analysis at graduate and postgraduate level and ecological modeling at Lund University and in international cooperative programs.