Prof. Dr. Harald ROHRACHER

Tema T – Technology and Social Change Linköping University, 581 83 Linköping, Sweden

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CURRICULUM VITAE

Current position: Professor, Department of Thematic Studies – Technology and Social Change (Tema T), Linköpings universitet (since 2012); Head of Tema T (2015-2017); Proprefekt of Department of Thematic Studies (2023)

Date of birth: 24 February 1965 in Lienz, Austria

UNIVERSITY EDUCATION

1984 - 1993	Studies in 'Technical Physics' at Graz University of Technology; DiplIng. (MSc) in Technical Physics
1987 - 1991	Student representative at the Graz University of Technology (student union representative, member academic senate)
1986 – 1997	Studies in Sociology and Philosophy at Karl-Franzens-University Graz, Mag.rer.soc.oec. (MA)
1997 – 1998	MSc in Science and Technology Policy, SPRU, University of Sussex
1999 – 2002	PhD in Social Sciences, University of Graz
Professional	LEXPERIENCE
Professional 1987 - 1991	EXPERIENCE Member of the Expert Committee of the Minister for Science and Research on the Reform of Education at the Austrian Universities of Technology;
	Member of the Expert Committee of the Minister for Science and Research
	Member of the Expert Committee of the Minister for Science and Research on the Reform of Education at the Austrian Universities of Technology; Member of the Committee of Technology Assessment at the Academic

Karl-Franzens-University Graz

1999 - 2007	Director of the Inter-University Research Centre for Technology, Work and Culture (IFZ)
1999 - 2012	Research Fellow and since 2010 Associate Professor at the Department of Science and Technology Studies, University of Klagenfurt
2009 - 2010	Joseph A. Schumpeter Fellow, Harvard University, USA
2010	Habilitation in "Science and Technology Studies" and promotion to Associate Professor
since 2012	Professor of Technology and Social Change, Linköping University, Sweden; 2013-14 Director of PhD studies, 2015-17 Head of Tema T, 2018-2021 Head of Unit Energy and Environment, 2023 Deputy Head of Department
	Tread of Clift Energy and Environment, 2023 Deputy Tread of Department

Feb-Mar 2013 Simon Visiting Professor, Manchester University

Visiting Researcher at the Budapest University of Technology and Economics, Department of Innovation Research (March - May 2005), Centre for Innovation Research in the Utility Sector, Zurich (July 2006, February 2007), University Ljubljana, Slovenia (April 2008), University of Oslo (February/March 2012)

FURTHER ACADEMIC ACTIVITIES

Project evaluator and member of review committees, e.g. for

- Research Framework Programmes of the European Union
- ERA-net, different calls
- National Science Foundation, USA
- Swiss National Science Foundation
- Norwegian Research Council
- Nordic Energy Research
- norden Sustainable Energy Systems 2050 (Nordic Energy)
- UK Government Office for Science
- Engineering and Physical Sciences Research Council (EPSRC), UK
- Economic and Social Research Council (ESRC), UK
- Netherlands Organisation for Scientific Research (NWO)
- Dutch Technology Foundation (STW)
- Programme "Social-ecological Research" of the German Ministry of Research (BMBF)
- Helmholtz Association of German Research Centres (chair of the international review committee for the research field 'Technology, Innovation and Society' 2014-15; chair of the review committee for a new Institute for Networked Energy Systems, 2017)
- Research Programmes of the Austrian Ministry of Science and Research
- Austrian Science Fund (FWF)
- Austrian Academy of Sciences
- Austrian Climate Research Programme (ACRP)
- Vienna Science and Technology Fund (WWTF)
- Formas Swedish Research Council for Sustainable Development
- Swedish Energy Agency
- Vinnova

- Belgian Science Policy Office, Solstice programme
- Research Foundation Flanders (FWO)
- Academy of Finland
- Canada First Research Excellence Fund (CFREF)

Referee for recruitment and promotion committees, e.g. Potsdam University; Aalborg University; Edinburgh University; Lancaster University; University of Klagenfurt; University of Passau; Uppsala University; Manchester University, Utrecht University, Lund University; KTH; NTNU, Trondheim; RWTH Aachen

Reviewer for academic journals, e.g. Research Policy; Energy Policy; Proceedings of the National Academy of Sciences of the USA (PNAS); Global Governance; Science, Technology & Human Values; Global Environmental Change; Technological Forecasting and Social Change; Technology Analysis & Strategic Management; Science, Technology & Innovation Studies; Science & Technology Studies; Environmental Science & Policy; Journal of Environmental Policy & Planning; Built Environment; Human Technology; Central European Journal of Public Policy; Energy; Climatic Change; Sustainability: Science, Practice, & Policy; Annals of the Association of American Geographers; Energy, Sustainability & Society; Socio-economic Review; Environmental Communication; Environmental Innovation and Societal Transitions; Journal of Cleaner Production; Policy Sciences; Environmental Politics; Sustainability Science; Sustainability; SPATIUM International Review; Sustainability; Agricultural Systems; Regional Studies; Environment and Planning A & C; Industry and Innovation; Biofuels; Urban, Planning and Transport Research; African Journal of Science, Technology, Innovation and Development; Energy, Sustainability and Society; Energy Research and Social Science; Cities; Environmental Policy and Governance; Innovation: The European Journal of Social Science Research; Österreichische Zeitschrift für Soziologie; Ecology & Society; Nature Energy; Science & Public Policy; Strategic Management Journal; Futures; Raumforschung und Raumordnung -Spatial Research and Planning; Political Geography; Geoforum; Engaging Science, Technology & Society; Mobilities; Urban Studies; Geographica Helvetica; Journal of Urban Technologies; Research for all (UCL Press)

Member of *scientific boards*, e.g.

- Board of the Swedish platform for System Innovation Research in Interaction (SIRI) (since 2023)
- Energiutvecklingsnämnd, decision-making committee of the Swedish Energy Agency (since 2020)
- Advisory Committee of the Stuttgart Research Center for Interdisciplinary Risk and Innovation Studies, Stuttgart (ZIRIUS, since 2012)
- International Advisory Board of the Norwegian Research Centre on Zero Emission Buildings, Trondheim (2011-2017)
- Board member of the Centre for Municipality Studies (CKS), Linköping (2015-2023)
- Chair of the board of the Centre for Man, Technology and Society, Linköping University (2018-2023)
- International Advisory Committee of the interfaculty programme MILEN (Environmental change and sustainable energy), University of Oslo (2010-2014)
- Scientific Advisory Board of the Swedish Energy Systems Program (2007-2012)

- Scientific board member of the Institute for Advanced Studies on Science, Technology and Society (since 1999)
- Board of the research organisation Joanneum Research Austria (1999-2002)
- Scientific advisory board of the German programme "Transformation and Innovation in Power Systems" (2002-2007)
- Supervisory Board of the Energy Agency Upper Styria (1997-2000)

Associate Member of the Manchester Architecture Research Centre (MARC), University of Manchester (since 2008)

Membership in various *professional associations* (International Solar Energy Society – ISE, International Sociological Association - ISA, European Sociological Association - ESA, European Association for the Study of Science and Technology – EASST, etc.)

- Vice-President of the Austrian Sociological Association (2003-2007)
- 'Speaker' of the Sociology of Science and Technology section of the Austrian Sociological Association (2007-2012)
- Vice-Chair and Chair of the board of the Sociology of Science and Technology NETwork (SST-NET) of the European Sociological Association (2007-2020)

Contributing Editor of the EASST Review, European Association for Social Studies of Science and Technology (2005-2011)

Co-Editor of 'Science, Technology and Innovation Studies (STI-Studies)' (2010-2015)

Associate Editor of 'Environmental Innovation and Societal Transitions' (2014-2023)

PHD-SUPERVISION

Giorgi Kankia, Linköping University (co-supervisor), 2024-

Gavin Lewis, Linköping University (co-supervisor), 2023-

Stella Huang; Linköping University (main supervisor), 2023-

Adam Svensson; Linköping University (main supervisor), 2022-

Linus Ekman: Between Waste and Resource Enacting Sewage Sludge as Useable Good; completed September 2024 (main supervisor)

Nancy Brett: Swedish Biogas Markets: Bridging Local Constraints and Global Priorities; Linköping University; completed May 2024 (main supervisor)

Ravi Jayaweera: Urban Sustainability Transitions in the Global South: Evidence from Cambodia; University of Hamburg (chair of supervision committee); completed September 2023

Fredrik Envall: New networks of power: on the emergence, diffusion and impact of alternative electricity system architectures, Linköping University (main supervisor, completed February 2021)

Amelia Mutter: Competition and Complementarity between renewable fuels - imaginaries of biogas and electric propulsion in Sweden, Linköping University (main supervisor, completed March 2020)

Johan Niskanen: Mainstreaming passive houses. A study of energy efficient residential buildings in Sweden; Linköping University (main supervisor, completed December 2018)

Darcy Parks: The Sustainable City Becomes Climate-Smart. How Smart City Ideas Reshape Urban Environmental Governance, Linköping University (main supervisor, PhD completed June 2018)

Anna Wallsten: Assembling the smart grid: On the mobilization of imaginaries, users and materialitites in a Swedish demonstration project, Linköping University, (main supervisor, PhD completed December 2017)

Thomas Berger: Energy Poverty: An Environmental Sociology Approach, University of Klagenfurt, (main supervisor, PhD completed May 2016)

Kirsten Ulsrud: A strategy for South-South transfer of social and technological innovations, University of Oslo (main supervisor, PhD completed November 2015)

Steffen Wirth: Institutional analysis of technological innovation systems: The case of biogas, ETH Zürich / University of Klagenfurt (main supervisor, PhD completed June 2014)

Daniel Nilsson; Linköping University (main supervisor), 2020-22, not completed

Madelene Gramfält; Linköping University (co-supervisor), 2018-20, not completed

SELECTED PUBLICATIONS

Farhangi, M., Rohracher, H., Magnusson, D., 2024. More than wires and screens: Assumptions about agency of devices in smart energy projects. *Energy Research & Social Science* 114, 103592, https://doi.org/10.1016/j.erss.2024.103592

Wieczorek, A.J., Rohracher, H., Bauknecht, D., Kubeczko, K., Bolwig, S., Valkering, P., Belhomme, R., Maggiore, S.: Citizen-led decentralised energy futures: Emerging rationales of energy system organisation. *Energy Research & Social Science* 113, 2024, 103557, https://doi.org/10.1016/j.erss.2024.103557

Rohracher, H., Ornetzeder, M.: Navigating missions: Experiences from a long-term R&I programme to transform the building sector in Austria. In: *Science and Public Policy* 51(1), 2024, pp. 67–79, https://doi.org/10.1093/scipol/scad055

Farhangi, M., Rohracher, H., Magnusson, D., Trygg, K., Skill, K.: Planning education and transformative capacity for climate-neutral cities. In: *Journal of Planning Education and Research*, 2023, online first, https://doi.org/10.1177/0739456X231211572.

Jayaweera, R., Rohracher, H., Becker, A., Nop, S., Waibel, M.: Urban transition interventions in the Global South: Creating empowering environments in disempowering contexts? In: *Energy Research & Social Science* 106, 103312, 2023, DOI 10.1016/j.erss.2023.103312

Envall, F., Rohracher, H.: Technopolitics of future-making: the ambiguous role of energy communities in shaping energy system change. In: *Environment and Planning E: Nature and Space*, 2023, online first, DOI 10.1177/25148486231188263

Jayaweera, R., Rohracher, H., Becker, A., Waibel, M.: Houses of cards and concrete: (In)stability configurations and seeds of destabilisation of Phnom Penh's building regime. In: *Geoforum* 141, 103744, 2023, https://doi.org/10.1016/j.geoforum.2023.103744

Tarasova, E., Rohracher, H., 2023. Marginalising household users in smart grids. Technology in Society 72, 102185.

Rohracher, H.; Kordas, O.; Coenen, L.: Mission incomplete: Layered practices of monitoring and evaluation in Swedish transformative innovation policy. In: Science and Public Policy, 2022, online first, DOI: 10.1093/scipol/scac071

Truffer, B., Rohracher, H., Kivimaa, P., Raven, R., Alkemade, F., Carvalho, L., Feola, G.: A perspective on the future of sustainability transitions research. In: Environmental Innovation and Societal Transitions 42, 2022, pp. 331-339; DOI: https://doi.org/10.1016/j.eist.2022.01.006

Niskanen, J., Rohracher, H.: A politics of calculation: Negotiating pathways to zero-energy buildings in Sweden. In: Technological Forecasting and Social Change 179, 2022, 121630, DOI: https://doi.org/10.1016/j.techfore.2022.121630

Klitkou, A., Bolwig, S., Huber, A., Ingeborgrud, L., Pluciński, P., Rohracher, H., Schartinger, D., Thiene, M., Żuk, P.: The interconnected dynamics of social practices and their implications for transformative change: A review. In: Sustainable Production and Consumption 31, 2022, pp. 603-614, DOI: https://doi.org/10.1016/j.spc.2022.03.027

Jain, M., Rohracher, H.: Assessing transformative change of infrastructures in urban area redevelopments. In: Cities 124, 2022, 103573; DOI: https://doi.org/10.1016/j.cities.2022.103573

Niskanen, J., Rohracher, H.: Mainstreaming passive houses: more gradual reconfiguration than transition. In: Journal of Environmental Policy & Planning, 2022; DOI: 10.1080/1523908X.2021.2019575

Dóci, G., Rohracher, H., Kordas, O.: Knowledge management in transition management: The ripples of learning. In: Sustainable Cities and Society 78, 2022, 103621; DOI: https://doi.org/10.1016/j.scs.2021.103621

Mutter, A., Rohracher, H.: Competing Transport Futures: Tensions between Imaginaries of Electrification and Biogas Fuel in Sweden. In: Science, Technology, & Human Values 47 (1), 2022, pp. 85-111; DOI: 10.1177/0162243921996052

Niskanen, J., Rohracher, H.: Passive houses as affiliative objects: Investment calculations, energy modelling, and collaboration strategies of Swedish housing companies. In: Energy Research & Social Science 70, 2020, 101643; https://doi.org/10.1016/j.erss.2020.101643

Köhler, J., Geels, F.W., Kern, F., Markard, J., Wieczorek, A., Alkemade, F., Avelino, F., Bergek, A., Boons, F., Fünfschilling, L., Hess, D., Holtz, G., Hyysalo, S., Jenkins, K., Kivimaa, P., Martiskainen, M., McMeekin, A., Mühlemeier, M.S., Nykvist, B., Onsongo, E., Pel, B., Raven, R., Rohracher, H., Sandén, B., Schot, J., Sovacool, B., Turnheim, B., Welch, D. and Wells, P.: An agenda for sustainability transitions research: State of the art and future directions. In: Environmental Innovation and Societal Transitions 31, 2019, pp. 1-32; https://doi.org/10.1016/j.eist.2019.01.004

Rohracher, H., Köhler, H.: Households as infrastructure junctions in urban sustainability transitions: the case of hot water metering. In: Urban Studies 56, 2019, pp. 2372-2386; https://doi.org/10.1177/0042098018815618

- Parks, D., Rohracher, H.: From sustainable to smart: Re-branding or re-assembling urban energy infrastructure? In: Geoforum 100, 2019, pp. 51-59, https://doi.org/10.1016/j.geoforum.2019.02.012
- Ulsrud, K., Rohracher, H., Winther, T., Muchunku, C., Palit, D.: Pathways to electricity for all: What makes village-scale solar power successful? In: Energy Research & Social Science 44, 2018, 32-40, https://doi.org/10.1016/j.erss.2018.04.027
- Ulsrud, K., Rohracher, H., Muchunku, C.: Spatial transfer of innovations: South-South learning on village-scale solar power supply between India and Kenya. Energy Policy 114, 2018, pp. 89-97.
- Ulsrud, K., Winther, T., Palit, D., Rohracher, H.: Village-level solar power in Africa: Accelerating access to electricity services through a socio-technical design in Kenya. In: Energy Research & Social Science 5, 2015, pp. 34-44
- Späth, P., Rohracher, H.: Conflicting strategies towards sustainable heating at an urban junction of heat infrastructure and building standards. In: Energy Policy 78, 2015, pp. 273-80.
- Rohracher, H., Späth, P.: The interplay of urban energy policy and socio-technical transitions: The eco-cities of Graz and Freiburg in retrospect. In: Urban Studies 51(7), 2014, pp. 1413-29
- Ornetzeder, M., Rohracher, H.: Of Solar Collectors, Wind Power, and Car Sharing: Comparing and Understanding Successful Cases of Grassroots Innovations. In: Global Environmental Change 23(5), 2013, pp. 856-67
- Wirth, S., Markard, J., Truffer, B., Rohracher, H.: Informal institutions matter: professional culture and the development of biogas technology. In: Environmental Innovation and Societal Transitions 8, 2013, pp. 20-41
- Rohracher, H., Späth, P.: Transitions towards sustainability learning from Graz and Freiburg? In: Serbian Architectural Journal 4, 2012, pp. 75-98
- Weber, M., Rohracher, H.: Legitimizing research, technology and innovation policies for transformative change: Combining insights from innovation systems and multi-level perspective in a comprehensive 'failures' framework. In: Research Policy 41(6), 2012, pp. 1037-47
- Späth, P., Rohracher, H.: Local demonstrations for global transitions Dynamics across governance levels fostering regime change. In: European Planning Studies 20(3), 2012, pp. 461-479
- Rohracher, H.: Biofuels and their publics: the need for differentiated analyses and strategies. In: Biofuels 1(1), 2010, pp. 3-5, ISSN 1759-7269
- Späth, P., Rohracher, H.: 'Energy Regions': The transformative power of regional discourses on socio-technical futures. In: Research Policy 39(4), 2010, pp. 449–458
- Schreuer, A., Ornetzeder, M., Rohracher, H.: Negotiating the local embedding of sociotechnical experiments: A case study in fuel cell technology. In: Technology Analysis & Strategic Management 22(6), 2010, pp. 729-743
- Schreuer, A., Rohracher, H., Späth, P.: Transforming the Energy System: The Role of Institutions, Interests and Ideas. In: Technology Analysis & Strategic Management 22(6), 2010, pp. 649 652

Rohracher, H.: Intermediaries and the Governance of Choice: The Case of Green Electricity Labelling. In: Environment and Planning A 41(8), 2009, pp. 2014-2028, ISSN 0308-518X

Rohracher, H.: Energy systems in transition: contributions from social sciences. In: International Journal of Environmental Technology and Management 9 (2/3), 2008, pp. 144-161

Rohracher, H.: Sustainability as a Matter of Social Context: Information Technologies and the Environment. In: International Journal of Environmental Technology and Management 6 (6), 2006, ISSN 1466-2132, pp. 539-552

Rohracher, H.: Innovation und Diffusion von Umwelttechnologien: Das Potential techniksoziologischer Beiträge zu Technologieprogrammen. In: E. Buchinger, U. Felt (Eds.): ,Technik- und Wissenschaftssoziologie in Österreich: Stand und Perspektiven', Special Issue No. 8/2006 of Österreichische Zeitschrift für Soziologie, 2006, pp. 29-49

Ornetzeder, M., Rohracher, H.: User-led Innovations and Participation Processes: Lessons from Sustainable Energy Technologies. In: Energy Policy 34 (2), 2006, ISSN 0301-4215, pp. 138-150

Rohracher, H.: The role of users in the social shaping of environmental technologies. In: Innovation – The European Journal of Social Science Research 16 (2), 2003, pp. 177-192

Rohracher, H.: A Socio-Technical Mapping of Domestic Biomass Heating Systems in Austria. In: Bulletin of Science, Technology and Society 22(6), 2002, pp. 474-483

Rohracher, H., Ornetzeder, M.: Green Buildings in Context: Improving Social Learning Processes between Users and Producers. In: Built Environment 28 (1), 2002, pp. 73-84

Rohracher, H.: Managing the Technological Transition to Sustainable Construction of Buildings: A Socio-technical Perspective. In: Technology Analysis & Strategic Management 13(1), 2001, pp. 137-150