

Gerald Steiner – Curriculum vitae

Professional Profile:

Univ.-Prof. Dr. habil. Gerald Steiner

Professor of Organizational Communication and Innovation at the University for Continuing Education Krems - Danube University Krems, Austria

[Dean of Faculty of Business and Globalization](#)

[Chair of Department for Knowledge and Communication Management](#)

Founder and Scientific (Co-)Leader of the **Transdisciplinarity Laboratories** at the University for Continuing Education Krems:

(1) Sustainable Mineral Resources ([SMR-Td Lab](#))

(2) [Biodiversity-Hub Austria](#)

(3) Sustainable Digital Environments ([SDE-Td Lab](#))

Co-Founder and Coordinator of the [Transatlantic Research Lab on Complex Societal Challenges](#)

Member of the [Biodiversity Council Austria](#)

[Associate Faculty CSH \(Complexity Science Hub Vienna, Austria\)](#)

Co-Chair and Leading Board Member of the [GovLab Austria](#)

Former J.A. Schumpeter Professor (J.A. Schumpeter Fellowship) and Visiting Scholar at Harvard University/Weatherhead Center for International Affairs (WCFIA)/ Boston MA, USA

Privat-Dozent (PD) of Systemic and Sustainability Management (with Venia Legendi/Habilitation) at University of Graz/Austria

Lecturer on 'Innovation Management and Entrepreneurship' in International Industrial Management and on 'Design and Innovation' in Industrial Design at the University of Applied Sciences (FH Joanneum/Austria)

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[https://donau-](https://donau-uni.zoom.us/j/4677867699?pwd=R0szc1B5dDIKTlQrTExLY2p4aHF1QT09)

[uni.zoom.us/j/4677867699?pwd=R0szc1B5dDIKTlQrTExLY2p4aHF1QT09](https://donau-uni.zoom.us/j/4677867699?pwd=R0szc1B5dDIKTlQrTExLY2p4aHF1QT09)

Place of Birth:

Obdach (Styria), Austria, EU

Area of Specialization and Interest:

The Dynamics of Coupled Human-Nature-Technology Systems, Sustainability Science, Innovation and Future Studies, Evolutionary Trajectories of Sustainable Development (including History of Innovation), Systems and Complexity Theory, Knowledge and Communication Management, Literacy and education for Complexity and

Collaborative Creative Problem Solving and Design Thinking, Knowledge Integration (particularly Transdisciplinarity) and Mixed Methods for Analyzing Complex Societal Challenges.

Education:

Until 2009	Venia Legendi (Habilitation/postdoctoral thesis)	Systemic and Sustainability Management (Profs. Scholz/ETH-Z, Mulej/Maribor, Strebel/Graz, and Krickl/Graz)	University of Graz, Austria
Until 2004	PhD	Title of Thesis “Collaborative Creativity: Systemic-Creative Problem Solving for Complex Challenges” in Management Studies and Social Sciences (Organizational & Innovation Studies; Heinz Strebel, PhD, Herbert Kraus, PhD)	University of Graz, Austria
Until 1996	MBA (Magister)	Title of Thesis “Air Quality Management in the South Coast Air Basin” in Business Administration & Management Studies	University of Graz, Austria
1996 Spring (4 mo)	Training	Training & research in air quality management	UCLA, CA
1994-1995 (12 mo)	Training	Training in Management Science & Civil Engineering	University of Oklahoma at Norman, OK
1994 (3 mo)	Training	Training & research in Management Science & Civil Engineering	UC Berkeley, CA
Until 1986	Ing. (Bachelor)	Mechanical Engineering	Higher Technical School for Mechanical Engineering and Operating Technology (HTL), Wolfsberg, Carinthia, Austria

Academic Appointments:

2015	Dean	Faculty of Business and Globalization	Danube University, Krems, Austria
2015-	Full Professor of Organizational Communication and Innovation & Chair of Department	Department for Knowledge and Communication Management	Danube University, Krems, Austria
2012-2015	Visiting Scholar	Weatherhead Center for International Affairs	Harvard University, Boston, MA
2011-2012	J.A. Schumpeter Professor (fellowship)	Weatherhead Center for International Affairs	Harvard University, Boston, MA
2009-	Associated Lecturer	School of International Industrial Management	FH Joanneum – University of Applied Sciences, Kapfenberg (Styria), Austria
2009-2011	Associate Professor of Systemic and Sustainability Management (with tenure)	Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), Economics and Social Sciences	University of Graz, Austria

2004-2009	Assistant Professor of Business Administration	Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), Economics and Social Sciences	University of Graz, Austria
2000-2009	Associated Lecturer	School of Information & Engineering	FH Joanneum – University of Applied Sciences, Kapfenberg (Styria), Austria
1998-	Associated Lecturer	School of Information, Design & Technology	FH Joanneum – University of Applied Sciences, Graz, Austria

Appointments at Independent Research Institutions:

2018 Oct. 16-	Associate Faculty	Complexity Science Hub Vienna, Austria (CSH)	CSH (www.csh.ac.at)
1995-2000	Senior Scientist	Institute of Environmental Geology and Ecosystem Research	Joanneum Research, Graz, Austria

Other Professional Positions:

1996-2009	XOHANA – A Dynamic Internet Market-Place	University Spin-off at ZAT (Center for Applied Technology)/Montanuniversitaet Leoben, Austria In this project, we developed a semantic internet-platform, which was aimed to represent the basis for mutual collaboration in science and a variety of other projects (www.xohana.com).
1997-2011	Business Owner, Sole Proprietorship	Consulting and Training of Businesses (e.g., BMW, Audi, AL-KO, Norkse-Skog) and Governments (e.g., Austrian Ministry of Science, Styrian State Government) in Innovation, Communication, and Future Development
1994-1996	Co-Creator & Director	Summer School for High School Students, Mondsee (Salzburg, Austria) Co-Created Program and Developed Curriculum
1989-1992 (winter)	Creator & Business Owner	Organizer of ski-adventure holidays in the Austrian Alps (before several years of experience as ski instructor for various Austrian ski schools)
1986-1993 (part- & full-time)	Lead Civil Engineer, Tunnel Construction Engineering	Fehberger Stahlbau (Steel Construction) GmbH, Grosslobming, Styria (Austria) Constructed (among others) the 6.5-mile (10 km) long Plabutsch Tunnel (Graz, Austria), and Railway Tunnels in Dietrichshan and Fulda (Germany)

Major Administrative Leadership Positions:

2021-	Founding and co-chairing the PhD Program in Technology, Innovation, and Cohesive Society (TICS) at the Faculty of Business & Globalization, University for Continuing Education - Danube University Krems	Co-Chair and Coordinator
2019-	Sustainability Officer of the University for Continuing Education - Danube University Krems	Co-Officer
2017-	Faculty Talks of the Faculty of Business & Globalization, Danube University Krems	Director
2017-	Brown Bag Lunch Seminar of the Faculty of Business & Globalization, Danube University Krems	Director
2016-	Research Methodology Seminar of the Faculty of Business & Globalization, Danube University Krems	Director
2015-2019	Co-chairing the PhD Program in Migration Studies at the Faculty of Business and Globalization	Co-Chair and Coordination

	(together with Prof. Mathias Czaika), Danube University Krems	
2008-2009	International Summer University Euro/So, University of Graz	Co-Organizer
2007-2010	Faculty Committee, School of Environmental, Regional and Educational Sciences, University of Graz	Vice-Chairman
2009-2011	Institute of Systems Sciences, Innovation and Sustainability Research (ISIS) Science Seminar, University of Graz	Organizer and Director
2007-2009	Faculty Development Advisory Council, School of Environmental, Regional and Educational Sciences, University of Graz	Faculty Member
2007-2011	Faculty Exchange Program, School of Environmental, Regional and Educational Sciences, University of Graz	Director
2007-2011	Faculty Search Committees, Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), University of Graz	Member
2007-2011	Environmental System Sciences, newly established interdisciplinary Master's Program, Curriculum Development, University of Graz	Chair of Working Group
2007-2011	Environmental System Sciences, newly established interdisciplinary Bachelor's Program, Curriculum Development, University of Graz	Chair of Working Group
2007	Launching of the Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), University of Graz	One of Four Founding Members
2006-2005-2006	Knowledge Region Styria (Incorporated Association) Developed first Sustainability Report for the University of Graz	President and Co-Founder Sustainability Task Force
2004-2011	Student Exchange Program (ERASMUS and other International Exchange Programs), Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), University of Graz	Director
2004-2005	Faculty Search Committee, Institute of Technology and Innovation Management, University of Graz	Member

Committee Service:

Local

2016	Search Commission 'Professorship of Migration Studies & Globalization'	Danube University Krems	Head of Search Commission
2016-	Tenure Track Committee 'Innovation Studies & International Business'	Danube University Krems	Head of Tenure Track Committee
2015	Search Commission 'Professorship of Migration Studies & Globalization'	Danube University Krems	Committee Member
2014-	STS Circle (Science, Technology and Society)	Kennedy School, Harvard University, Boston, MA	Member
2013-2015	Agriculture Innovation Group	Kennedy School, Harvard University, Boston, MA	Member

2012-2015	Faculty Seminar “Turkey in the Modern World”	WCFIA, Harvard University, Boston, MA	Member
2012-2015	Workshop on the Sustainability of the World’s Food and Farming Systems	WCFIA, Harvard University, Boston, MA	Member
2011-2015	Director’s Faculty Seminar	WCFIA, Harvard University, Boston, MA	Member
2011-2016	Transatlantic Relations Seminar	Weatherhead Center for International Affairs (WCFIA), Harvard University, Boston, MA	Member
2011-2016	Study Group of the Future of the European Union	Weatherhead Center for International Affairs (WCFIA), Harvard University, Boston, MA	Member
2010-2011	Strategy Group to develop a Master’s Program in <i>Innovation-based Education Management</i>	University of Graz, Austria	Committee Member
2007-2010	Regional Center of Expertise on Education for Sustainable Development (RCE), Network of the United Nations University	University of Graz, Austria	Scientific Board Member
2006-2011	International Student Organization for Sustainable Economics and Management, <i>OIKOS</i>	University of Graz, Austria	Advisory Board Member
2005-2011	Sustainability Task Force	University of Graz, Austria	Member
2005-2010	Habilitation Committees of Profs. Posch A. and Zotter K., as well as Dr. Schuetze J.	University of Graz, Austria	Committee Member
<i>National</i>			
2022	National Hub Horizon Europe Biodiversity-Water	Austria	(Co)Initiator & Host
2019	Austrian Biodiversity Advisory Council	Austria	Member
2018-	GovLab Austria	Federal Ministry for the Civil Service and Sport, Austria	Member of the Leading Board and Guiding Board
2009-2014	European Meeting on Cybernetics and Systems Research	Austrian Society for Cybernetics Research, Vienna, Austria	Program Committee Member and Co-Chair
2007-2011	<i>Keimblatt Ökodorf</i> , a project to establish an “ecovillage” aimed at sustainability and self-development	Austria	Scientific Advisory Board Member

International

2021-	Interinstitutional ‘Transatlantic Research Lab on Complex Societal Challenges’ with scholars from University for Continuing Education (Danube University) Krems, Medical University of Vienna, Complexity Science Hub, Arizona State University, Santa Fe Institute, Harvard University, World Climate Forum, Konrad Lorenz Institute for Evolution and Cognition Research, Technische Universität Bergakademie Freiberg, Saxonian Academy of Sciences, Fraunhofer Germany	United Nations	Co-Founder and Coordinator
2021	First Global Transdisciplinarity Conference	Hybrid	Organizer and Chair, Scientific Committee
2019-	Expert Group on Resource Management (EGRM)	United Nations	Expert
2016-	Transdisciplinarity Laboratories (1) Sustainable Mineral Resources (SMR-Td Lab); (2) Biodiversity-Hub Austria; (3) Sustainable Digital Environments (SDE-Td Lab)	International Platform	Co-FounderChair and Coordinator
2014-	Horizon 2020 – The Framework Program for Research and Innovation	European Commission	Evaluator
2014-	FONA – Research for Sustainable Development; Social-Ecological Research (SOEF)	Federal Ministry of Education and Research (BMBF), Germany	Evaluator
2013-	European Joint Programming Initiative «Connecting Climate Knowledge for Europe» (JPI Climate)	European Commission; The French National Research Agency (ANR), Paris	Panel of Experts (PoE) Member
2007-	IRDO – International Conference on Social Responsib. & Current Challenges	Maribor, Slovenia	Program Committee Member
2004-2008	Utrecht Network International Summer School	Utrecht, Netherlands	Program Committee Member
2001-2002	European Rural Development (ERD), Alpine Regions Focus Group	International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria	Member

Professional Societies:

2012-	Academy of Management (AOM)	Member
2007-	Society of Global Business & Econ. Developm.(SGBED)	Member
2007-	Eastern Academy of Management (EAOM)	Member
2006-	International Society of Systems Sciences (ISSS)	Member

2006-	Western Decision Sciences Institute	Member
2005-	International Sociological Association (ISA)	Member
2002-	International Transdisciplinarity Net on Case Studies for Sustainable Development (ITdNet)	Member
1996-	Buckminster Fuller Society	Member

Editorial Activities:

Ad hoc Reviewer

2004-	Systems Research and Behavioral Science
2004-	Journal of Mechanical Engineering
2006-	Journal of Business and Management
2007-	International Journal of Sustainability in Higher Education
2008-	Management: Journal of Contemporary Management Issues
2009-	Journal of Cleaner Production
2012-	Academy of Management Review
2013-	Journal of the Total Environment
2014-	Baltic Journal of Management
2014-	Sustainability Science
2017-	Environment Systems Decisions
2018-	Review of Managerial Science
2018-	Climatic Change
2021-	International Journal of Environmental Research and Public Health

Other Editorial Roles

2020-	Editorial Board Member	Sustainability
2016-2018	Guest Co-Editor	Sustainability. Section Sustainable Engineering and Science (ETH-Zurich) (on: Sustainability and Digital Environment)
2016-2018	Guest Co-Editor	Sustainability. Section Sustainable Engineering and Science (on: Phosphorus Circular Economy & Sustainable Innovation)
2014-2015	Guest Co-Editor	Sustainability Science Journal
2013-	Editorial Board Member & Associate Editor	The Journal of Global Entrepreneurship Research (JGER)
2010-	Editorial Board Member	International Journal of Transitions and Innovation Systems (IJTIS)

Honors and Prizes:

2017	Best Paper Award 2016	BOKU - University of Natural Resources and Life Sciences, Vienna	Best Paper Award for Provasnek, A./Schmid, E./Steiner, G. (2016). Stakeholder engagement: Keeping business legitimate in Austria's natural mineral-water bottling industry. <i>Journal of Business Ethics</i> . DOI:10.1007/s10551-016-3121-y.
2016	Best Paper Award 2015	Sustainability Science Journal	Best Paper Award as Outstanding Paper for 'The real type and ideal type of transdisciplinary processes: part II—what constraints and obstacles do we meet in practice?' in: <i>Sustainability Science</i> 10(4), pp. 653-671.
2011	J.A. Schumpeter Research Fellowship	Schumpeter Society, Harvard University	Annual Professorship at Harvard University. Only one outstanding scholar per year selected
2008	UNESCO Awards	UNESCO	Key Lecture: <i>With Creativity and Innovation</i>

			<i>Into a Sustainable Future?</i>
2008	Sustainability Award	Austrian Government	Award for the Institute of Systems Sciences, Innovation and Sustainability Research (ISIS) in the track <i>Research</i>
2007	Johann Puch Award	Magna Steyr Automotive Engineering	Key Lecture: <i>With Creativity and Innovation into the Future: Is this Possible, or even Desirable?</i>
2006	Best Paper Award	Western Decision Sciences Institute, Waikoloa, Hawaii	Recognition of Best Published Paper in Management and Organizational Behavior for 'The Concept of Open Creativity: Collaborative Creative Problem Solving for Innovation Generation - a Systems Approach.' <i>Journal of Business and Management</i> , 15(1), pp. 5-34.
2005	Daimler Chrysler Alpen-Adria Research Award	Private Foundation	Support for Outstanding Research in Innovation and Creativity
2004	GRAWE-Outstanding Dissertation Award	University of Graz, Austria	Title of thesis: A model for integrated creativity management
1994	Scholarship	Dr. Franz Josef Mayer-Gunthof-Stiftung	Support for Outstanding Students to Conduct Research at UC Berkley, CA
1994	Entrepreneurship Institute Award	University of Oklahoma, Norman, OK	Annual Award for Best Entrepreneurship Achievement of the Year from State-wide Projects Submitted
1994	Outstanding Student Award	University of Oklahoma, Norman, OK	GPA of 4.0 During Master's Program in Business Administration and Civil Engineering, with a Specialization in Entrepreneurship, Public Finance, Management, and Environmental Science
1993	Research Scholarship	Rotary Club Austria	Graz-Schlossberg Research Grant for best Student Project in Styria, Austria

Report of Funded and Unfunded Projects

Funding Information:

- 2022- Sustainability-focused data and knowledge hub for mineral resources (P-DaKH)
Global Phosphate Institute (GPI)
PI (EUR 500k annual funding)
The aim of the hub is to build a state-of the art data and research platform, which is pivotal for sustainable mineral resource management (such as phosphates). Institutionally, the hub is interrelated with the Transdisciplinarity Laboratory Sustainable Mineral Resources (SMR Td-Lab).
- 2020-2023 ÖKOsystemLEIsTungen als GestAltungselement in NÖ - (ÖKOLEITA)
Section Science and Research of the Government of Lower Austria
Donau Universität und Umweltbundesamt (EUR 593k total funding)
This research project focusses on the establishment of an overarching database and hub in the field of biodiversity and ecosystems services as part of a comprehensive sustainability strategy.
- 2020-2022 Better Regulation in Austria
Structural Reform Support Programme (EU), REFORM/GA2020/023
Affiliated partner (PI ihs) (EUR 700k total funding)

The objectives of the Action are very much in line with the objectives of the grant program of DG REFORM: The Action falls into the reform area of “Governance and public administration” and addresses important aspects of how to implement better regulation. Better regulation in this context means devising more effective and more efficient policy measures as well as other regulatory aspects through state-of-the-art (electronic) decision aids and the incorporation of behavioral insights.

- 2019-2022 A framework of organizational improvisation (Impro)
 Bridge Program of the Austrian Research Promotion Agency (FFG)
 Co-Investigator (EUR 216k total funding)
 The aim of this research project is to develop a framework for organizational improvisation. In this framework, factors for the complex and multidimensional ability of people to improvise in their organizational situation will be identified and described. Based on this basic scientific research, the framework will be used to develop prototypical designs for interventions in order to practically support the improvisational ability of people in organizations.
- 2017-2020 Biodiversity Hub & Database (Lower) Austria
 Section Science and Research of the Government of Lower Austria
 PI (Co-PI: Hoeltl A.) (EUR 650k)
 This research project focusses on the establishment of an overarching database and hub in the field of biodiversity and ecosystems services as part of a comprehensive sustainability strategy.
- 2016-2020 Social Peace and Migration – an Interdisciplinary Research & Ph.D. Program
 Asylum, Migration and Integration Fund (AMIF), European Commission
 PI (Co-PI: Parycek P.) (EUR 450k)
 This inter- and transdisciplinary project strongly builds on an international cohort of PhD students to contribute to the challenge of dealing with migration movements and the development of a joint European policy program.
- 2016-2020 Social Peace and Migration – an Interdisciplinary Research & Ph.D. Program
 Asylum, Migration and Integration Fund (AMIF), European Commission
 PI (Co-PI: Parycek P.) (EUR 450k)
 This inter- and transdisciplinary project strongly builds on an international cohort of PhD students to contribute to the challenge of dealing with migration movements and the development of a joint European policy program.
- 2017-2019 Collective Mind (SC16-030)
 Austrian Research Promotion Agency (FFG)
 Co-Investigator (300k)
 This research project on a deeper understanding of the collective intelligence and mental models within collaborative problem solving processes.
- 2016-2018 Sustainable Knowledge Management in the Ministry (BMLVS).
 Bundesministerium für Landesverteidigung und Sport BMLVS
 PI (Co-PI: Parycek P.) (100k total funding)
 This research project focusses on the implications of retirement waves on explicit and implicit knowledge as part of a comprehensive knowledge management and on the design of agile organizations within resilient knowledge networks.
- 2014-2018 Innovations for Sustainable Regional Soil and Energy Management (INOLA)
 German Ministry for Education and Research (BMBF)
 Consultant
 My role in this project, which represents a partnership between Ludwig Maximilian’s University Munich (Germany), University of Graz (Austria), FH Kempten (Germany), ETH Zurich (Switzerland), Leuphana University (Germany), Wuppertal Institute (Germany), and City of Munich (Germany), is the external coaching in innovation management

- 2013-2015 Research Institutions and Think-Tanks as Innovation Engines in Crisis Resolution: A Network Analysis
Weatherhead Center for International Affairs (WCFIA)
PI
This project, which is a joint project of Harvard University and the WCFIA, explores the public policies related to global food crises.
- 2012-2014 Employing Cultural Heritage as Promoter in the Economic and Social Transition of Old – Industrial Regions – Shift X
European Commission, European Regional Development Fund
Co-Investigator
My role in this project, which represents a partnership between the Technical University Mining Academy Freiberg (Germany), Association of Mining Tourism Welzow (Germany), District of Zwickau (Germany), Association Styrian Iron Route (Austria), Microregion Sokolov-East (Czech Republic), STEBO Competence Center Community Development (Belgium), City of Bydgoszcz (Poland), and University of Graz (Austria), is to consult on innovation-based transition.
- 2010-2015 Global Research Project on Transdisciplinary Processes for Sustainable Phosphorus Management (GlobalTraPs)
European Commission, Industry, and National Government Support
Co-Investigator
This is a global project with broad participation from science, industry and practice and is jointly led by the Swiss Federal Institute of Technology (ETH) and the International Fertilizer Development Center (IFDC). Guiding question: „What new knowledge, technologies and policy options are needed to ensure that future phosphorus use is sustainable, improves food security and environmental quality and provides benefits for the poor?” In this project, I am responsible for directing transdisciplinary processes, conducting economic analyses, and for the analysis of innovations along the phosphorus lifecycle.
- 2011-2013 Crisis-related Problem Solving and Competences
Weatherhead Center for International Affairs (WCFIA) and Schumpeter Society
PI
This project, which is a joint project of Harvard University and the WCFIA, explores the methodology, process design, and patterns of collaboration for crisis-related problem solving.
- 2009-2012 Fostering Entrepreneurship in Higher Education (FoSentHE)
Tempus IV, European Commission
PI Subcontract to University of Graz
This project, which was funded under Tempus IV (EC), represented a partnership between the University of Zagreb (Croatia), the University of Rishon Lezion (Israel), University of Graz (Austria), University de Nice – Sophia Antipolis (France), ISM University of Management and Economics (Lithuania), EFMD – the international network for excellence in management development (Belgium), University of Maribor (Slovenia), University of Split (Croatia), and the Poznan University of Economics (Poland). In my role as project leader for the University of Graz, I was responsible for conducting an empirical survey and provided supervision for the educational system.
- 2008-2012 System Analysis Shared Space – The Case of Gleinstätten
State Government Styria, Austria
PI
This project was aimed at slogans like shared space, regional innovation, and system dynamics. We developed and implemented a roundabout of new dimensions for street traffic, which was, for the first time, established in Gleinstätten and subsequently received much local, national, and international media attention.
- 2008-2010 A “Teaching Innovation” Module for Engineering Programs (TO-INNOEN)
Leonardo da Vinci, European Commission, DG Education and Culture
Co-Investigator (PI: Posch A.)

This project, which was funded under Leonardo da Vinci (EC), represented a partnership between Liverpool John Moores University (UK), Oxford Brooks University (UK), University of Graz (Austria), Ankara University (Turkey), and Inonu University (Turkey). I was responsible for processes related to product innovation, creativity, and educational strategy.

- 2008-2009 Methods to Increase Long-Term Participation
Austrian Ministry of Science and Research
Co-Investigator (PI: Brunner F.)
My role in this project, which was aimed at increasing general participation, communication and sustainable development, was to focus on, and to train participants in, effective transdisciplinary stakeholder processes.
- 2007-2009 Improvement of Communication Structures and Creative Processes within the Automotive Cluster Styria
(ACS Open University)
Automotive Cluster Styria
Co-PI
This project was conducted in collaboration with the Academy of New Media and Knowledge Transfer, University Graz, and was directed towards communication, e-/blended-learning, and creative problem solving processes within the automotive cluster in Styria.
- 2006-2009 XOHANA – A Dynamic Internet Market-Place
ZAT/MUL Leoben, Austria
Co-PI / Product Development and Strategy
In this project, we developed a semantic internet-platform, which was aimed to represent the basis for mutual collaboration in science and a variety of other projects. Further, start-up enterprise (University Spin-Off).
- 2006-2008 Virtual Campus for a Sustainable Europe (VCSE)
European Commission, DG Education and Culture, Education, Audiovisual, and Culture Executive Agency (EACEA)
Co-Investigator
This project, which was funded under the eLearning 2006 program of the EC, represented a partnership between the University of Macedonia (Greece), the Open University of the Netherlands (Netherlands), the University of Graz (Austria), the University of Luneburg (Germany), and the Charles University in Prague (Czech Republic), was focused on the virtual campus, sustainability, and education.
- 2004-2006 Revitalization of Urban Systems: The City of Graz
City of Graz, Styria
PI (Project was financed in the form of human resources, i.e., a research assistant for two years)
In this project, sustainable urban mobility was the center of a plan to revitalize urban systems, with the specific case example of Graz.
- 2003-2004 Knowledge-Region Styria
State Government Styria (Austria), Böhler-Uddeholm, and Magna International
Co-Investigator
This proposal examined regional perspectives for a knowledge-based future of Styria
- 2002-2004 Erzherzog Johann Case-study – Sustainability through Innovation
Austrian Federal Ministry of Education and Science
Co-PI
This project, which was conducted in cooperation with the ETH Zurich (Co-PI Posch A.), examined the potential for sustainable development based on innovations, focusing on the specific case of science and culture research in Styria.
- 2002-2004 Innovative Behavior of Industrial-Design Companies and Industrial Manufacturers
Österreichischen Designstiftung (Austrian Design Foundation)
PI

This project aimed to conduct a comparative analysis of the innovation peculiarities and the competitiveness of the industrial design branch in Austria and Germany

- 2002-2003 Innovative Utilization of Secondary Resources
Future Fund Styria
Co-Investigator
This proposal aimed to examine the material and thermal reutilization and recycling modes of residual powder coating material.
- 2000-2001 Developing and Instructing Course “Integrated Business Solutions” at University of Graz
INTENTIA Austria
PI
This was the first of its kind course at the University Graz, which was entirely industry-sponsored and aimed at offering master’s and doctoral level students both theoretical as well as practical knowledge in integrated business solutions. As part of the course, well-known Austrian business officials gave guest lectures.
- 1998 Evaluation of Start-Ups in Styria
Junge Wirtschaft Steiermark („Young Economy Styria“)
PI
In an interview-based investigation, we evaluated which specific barriers start-ups in Styria face in their initial phases.
- 1996-1997 Recycling Network Upper-Styria
Federal (Austria) and State (Styria) Government, Chamber of Commerce, Styria
Co-Investigator
The aim of this project was to determine how to establish an innovative recycling network in Upper-Styria.

Report of Local Teaching and Training

Teaching of Students in Courses:

<i>University of Graz, Institute for Innovation and Environmental Management</i>		
2004-2008	Innovation and Technology Management, Course # 345.101, 334.010, 334.012, and 334.016	
Co-Developer and Instructor	Doctoral and master’s students	75 hours/year
2003-2007	Management as Integrative Discipline, MID, Course # 334.130 and 334.106	
Developer and Instructor	Undergraduate students	60 hours/year
2002-2004	Communication and Presentation Techniques, Course # 334.707	
Developer and Instructor	Undergraduate students	60 hours/year
2000-2001	Integrated Business Solutions, Industry-sponsored Course	
Developer and Instructor	Doctoral and master’s students	90 hours/year
1999-2009	Creativity within Innovation Processes, TIM2, Course # 404.502, 334.006, 334.083, and 334.212	
Developer and Instructor	Doctoral and master’s students	60 hours/year
1998-2003	Introduction in Business Management, Course # 630.037 and 646.510	
Co-Developer and Instructor	Doctoral and master’s students	60 hours/year

1997-2002	Environmental Economy, Course # 334.116, 334.035, 334.037, 334.053, 334.116, 334.117, 334.214, 334.216, and 334.301	
Co-Developer and Instructor	Doctoral and master's students	60 hours/year
1997-1998	Bionomics in Regional Policy and Technology Policy, Course # 334.025 and 334.042	
Developer and Instructor	Doctoral, master's and undergraduate students	60 hours/year
<i>University of Graz, Inter-Faculty Teaching</i>		
2003, 2005, 2007-2008	Interdisciplinary Laboratory, Taught by an inter-disciplinary team of up to 8 instructors from Academia, Industry, and Government, Course # 334.711, 001.605, and 905.061	
Co-Developer and Co-Instructor	Undergraduate, master's, and doctoral students	90 hours/year
<i>University of Graz, Institute of Systems Sciences Innovation and Sustainability Research (ISIS)</i>		
2009-2011	Qualitative Systems Sciences, Course # 404.006	
Co-Developer and Instructor	Doctoral and master's students	90 hours/year
2008-	Sustainable Product Development EMM1, Course # 404.901, Taught in English	
Developer and Instructor	Doctoral and master's students	180 hours/year
2008-	Sustainability-Entrepreneurship EMM1 (Eco-entrepreneurship), Course # 404.601 and 404.603, Taught in English	
Developer and Instructor	Doctoral and master's students	240 hours/year
2007-2008	Environmental Management EMM1, Course # 334.103 and 334.108	
Co-Developer and Instructor	Doctoral and master's students	75 hours/year
<i>Joanneum FH, University of Applied Sciences, School of Industrial Design, Graz, Austria</i>		
2013-	Sustainability Entrepreneurship for Global Food Security, Course # 100.404601, Taught in English	
Developer and Instructor	Master's students	60 hours/year
2010-	Design and Innovation, Course # 100.646401, Taught in English	
Developer and Instructor	Undergraduate students	60 hours/year
2000-2009	Design Methodology, Taught in English	
Developer and Instructor	Undergraduate students	60 hours/year
1998-2009	Innovation Management, Taught in English	
Developer and Instructor	Master's students	60 hours/year
<i>Danube University Krems</i>		
2019-	Innovation and New Business Models (within the Professional MBA Program 'Biotech, Pharma, and MedTech Management', Taught in English	
Developer and Instructor	Master's students	Every year in February at the University of Florence, Italy

2019- Developer and Instructor	Outlook for the Future (future studies) (within the Master Program 'Innovation Management') Master's students
2017- Developer and Instructor	Information and Knowledge Management: Understanding and successfully shaping a complex present/future through targeted creativity and innovation management (within the MBA Program 'Communication Management') Master's students
2016 Developer and Instructor	Co-Creation and Co-Design (within the Master Program 'Management and IT') Master's students

Formally Supervised Trainees:

2022- Master's Thesis Advisor (Thesis Topic: Analogies between biological and economic systems).	Milan Petit, MSc	Doctor Cand. at Danube University Krems, PhD Program 'Technology, Innovation, and Cohesive Societies' (TICS)
2019- Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professors Erwin Schmid, Stefan Vogl (both BOKU) and Barbara Brenner (DUK) (Thesis Topic: Competences for Complex Real-World Problems: Sustainable Development).	Romana Bates, Mag.	Doctor Cand. at the University of Natural Resources and Life Sciences, Vienna
2017- Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professor Gudrun Biffl (Thesis Topic: Youth Work and Migration).	Manfred Zentner, Mag.	Doctor Cand. at Danube University Krems, PhD Program 'Migration Studies', Austria
2014-2019 Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professor Jörg Matschullat (Thesis Topic: Sustainable Mineral Economics in the Field of Phosphate Rock Mining).	Bernhard Geissler, Ing. BSc. BSc. MSc MBA Dr.	Doctor rer. nat (summa cum laude) at University of Resources TU Bergakademie Freiberg, Geoengineering and Mining, Germany
2012-2016 Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professor Erwin Schmid (Thesis Topic: Entrepreneurial Responsibility and Social Acceptance toward Sustainability-Oriented Innovations).	Anna Provasnek, MSc Dr.	Doctor rer. soc. oec. at the University of Natural Resources and Life Sciences, Vienna
2013-2014 Master's Thesis Director and advisor (Thesis Topic: Sustainable Phosphorus Mining: Actors, Sustainability Standards and Performance Evaluation of a Business Case).	Bernhard Geissler, Ing. BSc. BSc. MSc	Master's Student, Social and Economic Sciences & Environmental Systems Sciences, University of Graz
2013 Joint Master's Thesis Director and advisor (Thesis Topic: Protected designations of origin: Between branding and regional development - The impact of the "Protected geographical indication" on the example of "Styrian Pumpkin Seed Oil").	Armin Kaufmann & Andreas Schloegl, MBA	Masters' Student, Environmental Systems Sciences, University of Graz
2011-2013 Master's Thesis Director and advisor (Thesis Topic: Gender-specific buying behavior).	Mitja Grusovnik, BSc	Master's Student, Social and Economic Sciences, University of Graz
2011	Sylvia Balloch, BSc, MBA	Master's Student, Environmental Systems Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: The influence of the subprime crisis on corporate social responsibility in Styrian companies).

2010-2012 **Michael Kuegler**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Future environmental technologies: based on a research of science fiction literature).

2010-2011 **Andreas Eder**, BSc, MBA Master's Student, Management and International Business, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Market launch from ecological product innovations using the example of Core Beer).

2009-2011 **Stephan Ribitsch**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: A business plan for an Austrian handicrafts enterprise using a trend analysis).

2009-2011 **Rudolf Jonas**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Leadership for promoting innovation: A case investigation on leadership and work climate at an Austrian beverage manufacturer).

2009-2011 **Martin Kieslinger**, BSc, MSc Master's Student, Natural Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Shared space to improve within-regional quality of location).

2009-2010 **Cedric von der Hellen**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Using the creative potential in the context of intrapreneurship to deal with demographic change).

2009 **Gisela Fuchs** Baccalaureate Student, Environmental Systems Sciences, University of Graz

Baccalaureate Thesis Director and advisor (Thesis Topic: The creative climate in companies).

2009 **Claudia Enzi** Baccalaureate Student, Environmental Systems Sciences, University of Graz

Baccalaureate Thesis Director and advisor (Thesis Topic: The creative climate in companies).

2008-2010 **Martin Heissenberger**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Sustainability in the farming and food industry with an emphasis on production, trade, and consumption).

2008-2010 **Christina Neuwirth**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Scenario analysis as an instrument to predict the future development of burn-out rehab clinics in Austria).

2008-2009 **Stefanie Ruck**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Sustainable development of microfinance? Implications on the example of Morocco).

2008-2009 **Falk Raffael** Baccalaureate Student, Social and Economic Sciences, University of Graz

Baccalaureate Thesis Director and advisor (Thesis Topic: Development of a universal communication tool: concept of an innovative product development).

2007-2009 **Andrea Rettensteiner**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Corporate social responsibility with special consideration of innovation).

2007- **Elvis Kenik**, MBA Doctoral Candidate in the School of Social and Economic Sciences, ISIS, University of Graz

Doctoral Thesis Director, School of Social and Economic Sciences. Ongoing mentoring, supervision of data collection for EC-funded project FoSentHE.

2007-2009 **Thomas Wassermann**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Open innovation: the integration of stakeholder innovation on the example of the hammer mechanism industry).

2006-2008 **Katharina Fritz**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Communication in innovation processes).
Baccalaureate Thesis Director and advisor (Thesis Topic: The creative climate in companies).

2006-2008 **Birgit Tanzer**, BSc, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Creativity management).

2005-2007 **Elvis Kenik**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Slovenian management styles in the context of culture dimensions after Hofstede).

2004-2006 **Romana Papst**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Quality management of authorized BMW dealers).

2004-2005 **Stefan Rohr**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Bionics: A model of stakeholder-influence in the control of innovation and design management).

2004-2005 **Nadine Jauk**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: The innovation potential of youth from Eisenerz, Austria, for sustainable regional development).

2004-2005 **Karin Grasser**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Motivating innovation: strengthening the innovation potential in the BMW-Group through motivation).

2004-2005 **Daniela Huetter**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Evaluation and segmentation of the buyer behavior of consulting businesses)

2003-2004 **Birgit Traeger**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: The innovation potential for the use and recycling of powder coating as secondary resource)

2003-2004 **Ulrike Spitaler**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Spin-off and split off start-ups: potential, constraints, and characteristics).

2001-2003 **Erwin Dernovsek**, MBA Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Information about the willingness to cooperate between partner companies of ACStyria and their approach to instruments for creative problem solving processes).

2001-2003 **Birgit Beinsen, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: New public management: a portrayal of the concepts and avaluation of the status quo in Austria).

2001-2003 **Ariane Gunhold, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Bionics: incitements from nature for the generation of innovations).

2001-2002 **Martina Oberauner, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Bionics in the innovation process).

2001-2002 **Hannes Schuster, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Human Capital).

2001-2002 **Klaus Hofstaetter, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: eGovernment).

2000-2001 **Ute Preisitz, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Economical and ecological analysis of the recycling of power coating as a secondary resource).

1999-2000 **Eva-Christina Schneider, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Conceptualization of an Accounting System for a Carpenter Business).

1998-2001 **Paul Becker, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Renewable energy in gastronomy and hotels in Schladming, Styria).

1998-2000 **Raimund Huter, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Business plan for a sales company as exemplified by the company Austria-Alpin).

1996-1998 **Sigrid Heitzer, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Problems encountered by young Styrian entrepreneurs at the beginning of their start-ups).

1989-1990 **Sigrid Fojkar, MBA** Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Advisor (Thesis Topic: Analogies between biological and economic systems).

Local Invited Presentations:

No presentations below were sponsored by outside entities.

2011 The Future of the European Union – a Business Perspective (Featuring Dr. Christoph Leitl, President of the Austrian Federal Economic Chamber) Organizer and Host, Workshop
Harvard University and Weather Head Center for International Affairs, Cambridge, MA, USA

2011	The Application of Collaborative Systems of Innovation to Diabetic Treatment Worldwide: How fit are we for the future? Austrian Scientists in North America (ASCINA), Harvard University, Boston, MA USA	Invited Presenter
2006	Innovation tools as high potentials for the communication process within sustainable regional development Institute of Geography and Regional Science, University of Graz, Austria 1997	Invited Presenter, International Conference on Good (Best) Practice Cases in Regional Development after Mining and Industry Invited presenter
	The Potential of Networks International Symposium on Innovative Recycling Networks, Graz, Austria	

Report of National Teaching and Training

Teaching of Students in Courses:

FH Kufstein, University of Applied Sciences, Institute of International Management, Kufstein, Tyrol (Austria)

2000			
Guest Lecturer	Quality Management	Master's students	90 hours/year

Joanneum FH, University of Applied Sciences, School of International Management, Kapfenberg, Styria (Austria)

2012-			
Developer and Co-Instructor	Sustainable Development, Innovation and Risk Management, Course # 110590304 and 110590309	Master's students	60 hours/year
2009-2010			
Developer and Instructor	Scenario Planning for the Future	Master's students	60 hours/year
2000-2009			
Developer and Instructor	Theory of Organization and Entrepreneurship in Industrial Electronics	Master's students	60 hours/year

Report of International Teaching and Training

Teaching of Students in Courses:

University of Ljubljana (Slovenia), Utrecht Network International Summer School: „Environmental Management“

2004-2007			
Visiting Professor, Guest Lecturer	Tools for Sustainability in Theory and Practice	Master's students	40 hours/year

University of Maribor (Slovenia), School of Economics and Business

1999-2008			
Visiting Professor, Guest Lecturer	Creative Problem Solving for Innovation	Master's students, MBA Executive Program	60 hours/year

Report of Regional, National and International Presentations

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified*.

Regional:

- 2003 Creativity Management in Sustainability Networks Invited lecture
5th International Summer Academy on Technology Studies, Organizers
Deutschlandsberg, Styria, Austria
- 2003 A Core Project and a Set of Disciplinary Additives: A Invited lecture
new way of organizing large-scale transdisciplinary
case studies
2nd ITdNet-Meeting, Graz, Austria Meeting Organizers
- 1997 The Potential of Networks Invited presenter
International Symposium on Innovative Recycling Networks, Graz, Austria

National:

- 2022 Paneldiscussion: Does the Educational System Prepare Invited panelist
Sufficiently for Complex Challenges of the Future
(Bereitet das Bildungssystem ausreichend auf die
komplexen Herausforderungen der Zukunft vor?)
Baden, Austria
Österreichischer Wissenschaftstag 2022, Österreichische
Forschungsgemeinschaft (ÖFG): Wissen-Kompetenzen-Bildung.
Universitäre Bildungsideale im Wandel? Baden bei Wien, Austria
- 2010 Td Teaching & Research Projects – a brief report from Invited presenter,
Graz. Vienna, Austria with Drs. Binder and Posch
8th Annual Meeting of the International Transdisciplinarity Net on Case Meeting Organizers
Studies for Sustainable Development (ITdNet), Vienna, Austria
- 2010 Actors and Interactions: Invited presenter
Stakeholders and Innovation
8th Annual Meeting of the International Transdisciplinarity Net on Case Meeting Organizers
Studies for Sustainable Development (ITdNet), Vienna, Austria
- 2010 Creative communication management within complex Invited lecture
entrepreneurial innovation processes: a
transdisciplinary systems approach
20th European Meeting on Cybernetics and Systems Research (EMCSR), Meeting Organizers
Vienna, Austria
- 2008 Stakeholders Matter: How Stakeholders can Invited lecture
Contribute to Sustainable Innovation
19th European Meeting on Cybernetics and Systems Research (EMCSR), Meeting Organizers
Vienna, Austria
- 2008 Symposium “Management, Organizational Change, Co-Chair
and Innovation”
19th European Meeting on Cybernetics and Systems Research” (EMCSR), Meeting Organizers
Vienna, Austria
- 2005 Organizational Creativity Management Invited lecture
3rd Meeting on Entrepreneurship in Theory and Practice: Integrated Meeting Organizers
Management of Ideas, Klagenfurt, Carinthia, Austria

2002	GPRS Users's Expectations about UMTS International Conference on Operations Research, Klagenfurt, Carinthia, Austria	Invited lecture Conference Organizers
1999	Enterprise Resource Planning – Experience from Practice as Part of Academic Training EXPONET 1999 – 6 th International Conference for Internetworking Enterprise Computing Telecommunications, Vienna, Austria	Keynote lecture Conference Organizers
1997	Holistic Socioeconomic Transformation: A Case Study of the Eisenerz Region SASE – 10 th International World Conference on Socio-Economics, United Nations, Vienna, Austria	Invited lecture Conference Organizers

International:

2024	Informal expert meeting and dialogue on nutrients including Nitrogen and Phosphorus 5 th Meeting of the United Nations Environment Program (UNEP) Working Group on Nitrogen United Nations General Assembly, Nairobi, Kenya and hybrid, 9 – 10 January 2024	Session Chair and Moderation Lead and Moderation
2023	Dealing with International Complex Societal Challenges and Poly-Crises: Science Diplomacy – Quo Vadis? Science Diplomacy in Times of Global Crises: 9 th edition of the Science Summit around the 78 th United Nations General Assembly, New York, NY, USA (Location: Austrian Cultural Forum, New York)	Opening Keynote Speaker (together with Professor E. Schernhammer) Conference Organizers
2022	Global Phosphorus Availability from a Dynamic and Innovation-based Perspective: How to Manage Information and Knowledge Responsibly? 19 th International Plant Nutrition Colloquium (IPNC), Brazil, AUGUST 22 TO 27, 2022.	Opening Keynote Lecture Conference Organizers
2022	Status and Challenges of Phosphorus Reserves for Agriculture: a matter of quantity and quality UN-FAO - Food and Agriculture Organisation of the United Nations. Global Symposium on Soils for Nutrition - Soils, where food begins. Virtual Event July 26-19, 2022.	Invited Panel Speaker Conference Organizers
2022	Who and How will we Decide Global Futures Earth Week 2022 at Arizona State University (ASU), Julie Ann Wrigley Global Futures Laboratory. April 18-23, 2022.	Invited Panel Speaker Conference Organizers
2021	System boundaries and -interrelations: the case of mineral resources and reserves 4 th Real Estate Future Day 2021, dimensions of sustainability – from large to small scale and vice versa. Danube University, Department for Building and Environment, Krems a.d. Donau, Austria, October 14.	Opening Keynote Lecture Conference Organizers
2021	Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies	Opening Keynote Lecture

1st Global Transdisciplinarity Conference. Krems a.d. Donau, Austria, September 27-29.	Conference Organizer
2021 Digitale Transformation – versteckte Risiken und Chancen. Identifikation unbeabsichtigter positiver und negativer Auswirkungen StEP-Up Best Practice-Conference, Zoom, September 29.	Plenary Talk Conference Organizers
2021 Reflections on the need for transdisciplinary research and the measurement of its effectiveness AG Impact of the Alliance of Sustainable Universities in Austria, Zoom, June 14.	Plenary Talk Conference Organizers
2021 Corporate Social Empowerment (CSE) - Towards new forms of corporate-societal collaboration for enhanced adaptive capacities and sustainable transformations in the 21st century 16 th International Conference Social Responsibility and Current Challenges 2014 – Challenges and opportunities of digitalisation for sustainable future, IRDO 2021, Maribor, Slovenia, Zoom, June 10-11.	Plenary Talk Conference Organizers
2021 Transdisciplinary education & research: possibilities for cooperation Centre for Social Innovation, Vienna, Austria, Zoom, January 21.	Invited Keynote Lecture Conference Organizers
2021 Why the future needs more Td research and -universities: Theories, competences, and cases from the field Konrad Lorenz Institute for Evolution and Cognition Research (KLI), Klosterneuburg, Austria, January 14.	Invited Keynote Lecture Conference Organizers
2019 Competences for Dealing Innovatively with Complex Societal Challenges: Why in Future there will be an extended need for transdisciplinary Universities! Danube Rectors' Conference (DRC) 2019, 'Consolidating the Role of Universities in Innovation Ecosystems: Challenges & Future Developments', University Politechnica of Bucharest (UPB), Bucharest, Romania, November 6-8.	Opening Keynote Lecture Conference Organizers
2019 Striving towards a Circular Economy for Phosphorus: The role of Phosphate Rock Mining & Supply Security for Import-dependent Countries. The United Nations Economic Commission for Europe (UNECE), Expert Group on Resource Management (EGRM) Tenth Session, Salle XII, Palais des Nations, Geneva, April 29-30.	Invited Keynote Lecture with Michael Mew, Ludwig Herman, and Bernhard Geissler Conference Organizers
2019 Transdisciplinarity as 21st Century Approach for Communication & Mass Media 17th Annual International Conference on Communication and Mass Media, Athens, Greece, May 13-16.	Lecture Conference Organizers
2019 Fake News – a Society Greedy for Extremes: Have we Lost our Moral? 17th Annual International Conference on Communication and Mass Media, Athens, Greece, May 13-16.	Invited Keynote Lecture Conference Organizers

2018	Most recent developments in Phosphate Rock Mining: A global perspective on efficiency, circular economy, and innovation.	Invited Keynote Lecture
	U.S. Geological Survey (USGS), Washington D.C., U.S., December 7.	Conference Organizers
2018	Does complexity require different forms of leadership? ...or different approaches in ...everything? Multi-level knowledge synthesis & creation and transdisciplinarity as guiding principles within transformation processes (<i>Solution Stage: Leadership Ideas Worth Spreading</i>)	Keynote Lecture
2018	Effects of divergence of explicit & implicit cognition pattern s on societal resilience (<i>Expert Insights: Philosophical Reflections on Sustainability Narratives & Models</i>)	Keynote Lecture
	The 8th International Conference on Sustainability & Responsibility, Cologne, Germany, November 14-16.	Conference Organizers
2018	Toward a circular P economy: The role of mining & The Phosphate Rock Mining – Innovation Nexus	Presenter with Bernhard Geissler
	AIMS 2018 (Aachen International Mining Symposia) – First International Conference ‘Mines of the Future’. PPS H1 – Responsible and Sustainable Mining, Aachen, Germany, 23-24 May.	Conference Organizers
2017	State of the Art: Science - society collaboration-transdisciplinarity at the Danube University	Invited Keynote Lecture
	4th Interdisciplinary Doctoral Kolloquium, Andrassy University Budapest, Budapest, Hungary, November 10.	
2017	$b > \frac{1}{n} \sum_{i=1}^n x_i$	Invited Keynote Lecture
	tecnet accent Innovation Award 2017, Danube University Krems, Krems a.d. Donau, October 6.	Conference Organizers
2017	Unlock Hidden Innovation Potentials: Uncertainty, Risk, & Opportunity Costs	Invited Keynote Lecture
	IFA Production and International Trade Conference, Paris, France, February 22-24.	Conference Organizers
2016	Transdisciplinary development and management of cultural spaces and innovation systems	Presenter and Conference Co-Organizers
	Transformative Research and Development in Urban and Regional Environments - The Role of Science, Methods and Transdisciplinarity, Free University of Bozen-Bolzano (campus Brixen), Sept. 1-3.	
2016	Developments and efficiency Considerations in phosphate rock mining: past-present-future	Keynote Lecture with B. Geissler

5th Sustainable Phosphorus Summit 2016, China Agricultural University of Beijing (SPS-5, 2016), Kunming, China, Aug. 16-20.	Conference Organizers
2016 Co-Creation: 1 + 1 = 3?	Keynote Lecture
Wissen schafft Neues, 5. Wissensmanagement-Tage Krems, Danube University Krems, Krems a.d. Donau, April 19-20.	Conference Organizers
2015 Der Prozess von der Ideenfindung bis zur Umsetzung von Innovationen mit Fokus auf Co-Creation: „Smart = Systemic Understanding + Collaborative + Focused + Creative?“ respACT – austrian business council for sustainable development, aspern Die Seestadt Wiens, December 4.	Lecture and Coach
2015 Industrie 4.0 als Innovationschance. Welche Kompetenzen werden in Zukunft über Erfolg oder Mißerfolg entscheiden? Best Practice Konferenz (StEPU): Industrie 4.0 – Ein praxisbezogener Blick auf das Thema „Smart Production“, Krems, Oktober 13.	Keynote Lecture
2015 Durch Kreativität und Innovation in die Zukunft! Maschinenring Bundestagung, Krems an der Donau, October 1.	Keynote Lecture
2015 Wie Innovationssysteme funktionieren: Von der kreativen Idee zum supranationalen Innovationsprogramm Alumni-Tag: Leading through Innovation! Krems an der Donau, September 26.	Keynote Lecture
2015 How to deal with complex real-world challenges? A provocative call for new forms of higher education 37th EAIR Forum (The European Higher Education Society - Linking research, policy and practice): From here to there: Positioning Higher Education Institutions. Danube University Krems, August 28-September 2	Keynote Lecture
2015 Foerdert die derzeitige industrielle Revolution demokratische Prozesse oder soziale Eliten? Tagung zu den Auswirkungen des technologischen Wandels auf die Gesellschaftsordnung. Krems an der Donau Juli 11.	Keynote Lecture
2015 Industrial Design als Innovationsmotor: Quo Vadis? Herausforderungen fuer die Zukunft Industrial Design Show 2015, Design Talk. June 27, Graz	Keynote Lecture
2015 The Future of Higher Education in the 21st Century: free pathways, creative-cross-disciplinary programs and online resources A workshop with Prof. Dianne H.B. Welsh, Fulbright-Hall Distinguished Chair for Entrepreneurship in Central Europe at	Facilitator

Wirtschaftsuniversität Wien, The U.S. Embassy Vienna, the Austrian Fulbright Commission and Österreichische Universitätenkonferenz. Amerika Haus, Thursday, June 25, Vienna.

2015	Efficiency developments in phosphate rock mining over the last three decades	Presenter with Bernhard Geissler
AIMS 2015 (Aachen International Mining Symposia), RWTH Aachen, Germany, May 28.		
2015	Competences for the Co-design and Co-creation of Knowledge for Sustainable and Resilient Societies: a Transdisciplinary Approach	Invited Lecture
International Conference on Sustainability Science (ICSS), United Nations University, Tokyo/Japan, January 22-23, 2015 Session 3: Co-design and Co-creation of Knowledge for Sustainability		
2014	Working group: Interfaces from mining and primary beneficiation processing:	Moderator & Chair of working group
Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB), Workshop: Losses and Efficiencies in Phosphorus Management: Defining concepts, identifying tradeoffs and potentials, preparing messages, Stuttgart, Germany		Workshop Organizers
2014	Food Security and Health as Global Challenges: Whose Responsibility?	Keynote Lecture with Prof. Schernhammer
9 th International Conference Social Responsibility and Current Challenges 2014 – Health-Personal and/or Social Responsibility, IRDO 2014, Maribor, Slovenia		Conference Organizers
2013	Innovation as Driver of Competitiveness and Sustainability	Opening Keynote Lecture
1 st Stellenbosch Innovation District Conference (SID1), Cape Town, South Africa		Conference Organizers
2013	Innovation Systems as Facilitators of Just Transition: A Global Perspective. Large-Scale Collaborative Problem Solving Using the Example of Phosphorus as a Global Case (GlobalTraPs): a Transdisciplinary Approach (Session “Globalization, Sustainability, and Innovation Policy”)	Keynote Lecture Invited Presenter
2013	Learning-Session “Mutual Learning in Sustainable Mining”	Co-Chair, Workshop Leader
Global TraPs 1 st World Conference, Learning from Cases & Exploring Policy Options, Beijing, China		Conference Organizers
2013	Which Factors Influence Global Phosphorus and Fertilizer Prices?	Invited Presenter with Dr. Weber (Waterloo University)
5 th Conference of the Global Partnership on Nutrient Management (GPNM) of the United Nations (UNEP), Beijing, China		Conference Organizers

2013	Barriers and Opportunities for Industrial Innovation Systems in Transition: Exemplified by Old Industrial Regions	Invited Presenter
	Competences for Complex Real-World Problems: Toward an Integrative Framework	Invited Presenter
	The Eastern Academy of Management 2013 Conference - Creativity and Innovation: Designs for the Future, Baltimore, MD, USA	Conference Organizers
2013	Global History of Agrarian Labor Regimes, 1750-2000. International Impulses and Agrarian Change.	Commentator and Chair
	The Weatherhead Initiative on Global History (WIGH), Harvard University, Cambridge, MA, USA	Conference Organizers
2013	A Competence Framework for Innovation and Sustainability: Global Food Security & Phosphorus	Keynote Lecture
	8 th International Conference Social Responsibility and Current Challenges 2013 – Education and Communication for More Sustainable, IRDO 2013, Maribor, Slovenia	Conference Organizers
2012	Challenges and Chances for Systemic Innovation in Old Industrial Regions	Invited Presenter
	International Conference on Old Industrial Heritage – a new determinant of local and regional culture, Bydgoszcz, Poland	Organizers
2012	Symposium “Cross-Cutting Issue Node: Trade & Finance	Co-Chair
	Global TraPs Workshop, El-Jadida, Morocco	Workshop Organizers
2012	Competences for Sustainability and for Mastering Crises	Invited Lecturer with Dr. Risopoulos
	7 th International Conference Social Responsibility and Current Challenges 2012 – Innovation of culture toward more social responsibility – the way out of socio-cultural crisis, IRDO 2012, Maribor, Slovenia	Conference Organizers
2011	Youth as Driver of Innovation within Civic Change: Competencies for Mastering the Crisis	Keynote Lecture
	6 th International Conference Social Responsibility and Current Challenges 2011 – Youth in Focus of World Changes, IRDO 2011, Maribor, Slovenia	Conference Organizers
2010	Session “Sustainability Entrepreneurship”	Chair
	International Conference on Sustainability Driven Innovation, Vilnius Lithuania	Baltic Management Research Academy (BMRA)
2010	A systems based competence model for today’s complexity: sustainable entrepreneurial developments	Invited Presenter
	International Conference on Sustainability Driven Innovation (BMRA), Vilnius Lithuania	Conference Organizers
2010	A systems based competence model for today’s complexity: sustainable entrepreneurial developments	Invited Presenter

International Conference on Sustainability Driven Innovation, Vilnius Lithuania	Baltic Management Research Academy (BMRA)
2010 International e-learning on Environmental Protection: Virtual learning for a Sustainable Europe?	Invited Lecturer with Dr. Risopoulos
5 th International Conference “Social Responsibility and Current Challenges 2010 – nature and humans »human being = dangerous for nature and humans!«, IRDO 2010, Maribor, Slovenia	Conference Organizers
2009 Open Creativity in a Transdisciplinary Context 7 th Annual Meeting of the International Transdisciplinarity Net on Case Studies for Sustainable Development (ITdNet), Berlin, Germany	Invited Presenter Meeting Organizers
2009 Start-up Projects Fostering the Integration of “Forgotten” Parts of Society International Conference “Entrepreneurship without Borders”, Rishon Lezion, Israel	Invited Presenter Conference Organizers
2009 Transdisciplinary Case Study Teaching: Physical and Virtual Networking EU- Lifelong Learning Program Leonardo da Vinci “A Teaching on Innovation Module for Engineering Programs” (TO-INNOEN), Malatya, Turkey	Presenter with Dr. Sindler Workshop Organizers
2009 From Corporate Social Responsibility to Corporate Social Innovation? 4 th International Conference “Social Responsibility and Current Challenges 2009: Work – a Bridge to Cooperation: Relations with Coworkers and Different Age Generations”, IRDO 2009, Maribor, Slovenia	Invited Presenter, with Dr. Risopoulos Conference Organizers
2009 Entrepreneurship: Transdisciplinary Case-Study Teaching supported by a Moodle-Online-Learning Platform Tempus European Union project “Fostering Entrepreneurship in Higher Education” (FoSentHE), Split, Croatia	Invited Presenter Workshop Organizers
2008 Innovation and Creativity: A Chaos Theory Perspective 9 th International Conference on Linking Systems Thinking, Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia	Invited Presenter Conference Organizers
2008 Strategies for dealing with poverty in South America’s agriculture: the Heissenberger case as an Austrian CSR initiative 3 rd International Conference “Social Responsibility and Current Challenges 2008 – Social responsibility as contribution to stakeholders’ long term success in market”, IRDO 2008, Maribor, Slovenia	Invited Presenter Conference Organizers
2007 Towards Sustainability on Higher Education Institutions International Conference on Managing in a Global Economy XII: Culture: Integration and Innovation, Amsterdam, Netherlands	Invited Presenter Eastern Academy of Management

2007	Dealing with a Complex Future: Stakeholder communication as basis for sustainable innovations	Invited Presenter
	2 nd International Conference “Social Responsibility & Current Challenges 2007 - Mangers’ role at social responsibility development in profitable and non-profitable organizations”, IRDO 2007, Maribor, Slovenia	Conference Organizers
2007	Sustainability Learning – a mutual process between science and society	Invited Lecturer
	International Advanced Research Workshop on Higher Education and Sustainable Development (HESD), Maribor, Slovenia	Organizers
2006	Transdisciplinary Case Studies at the University of Graz – What has been achieved; what will come up?	Invited Lecturer
	ETH Zurich, Natural and Social Science Interface (NSSI) and Institute for Environmental Decisions (IED), Zurich, Switzerland	ETH Zurich
2006	Innovative Performance of Organizations as a Result of their Physical Environment	Invited Presenter
	16 th World Congress on Sociology: The Quality of Social Existence in a Globalistic World, Durban, South Africa	Congress Organizers
2006	Innovation as a Two-sided Coin with Special Consideration of Analogies	Invited Presenter
	50th Annual Conference of the International Society for the Systems Sciences (ISSS), Sonoma, CA, USA	Conference Organizers
2006	How to support the enterprise’s capability to generate radical innovation: What can be learned from the U.S.’s most innovative company IDEO	Invited Lecturer
	8 th International Conference on Linking Systems Thinking, Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia	Conference Organizers
2006	Stakeholder-Management for Indigenous Innovation by Social Responsibility	Invited Lecturer
	1 st Conference on Social Responsibility and Current Challenges, Maribor, Slovenia	Conference Organizers
2006	Transdisciplinary Creation of a Shared Vision for Sustainable Development	Invited Presentation, with Dr. Risopoulos
	Western Decision Sciences Institute Conference (WDSI), Waikaloa, Hawaii, USA	Conference Organizers
2005	Innovation and Creativity from the Viewpoint of Systems Thinking and Chaos Theory	Invited Presentation
	The First International World Congress of the International Federation for Systems Research, JAIST, Kobe, Japan	Conference Organizers
2005	The Planetary Model as a Framework for Organizing Innovation	Invited Presentation
	6 th International Conference of Sociocybernetics, International Sociological Association (ISA): Sociocybernetics and Innovation, Maribor, Slovenia	Conference Organizers

2005	Communication and Social Competences in Transdisciplinary Case Studies: Graz Mobility Case Study 11 th Annual International Sustainable Development Research Conference, Helsinki, Finland	Invited Presentation, with Drs. Risopoulos and Posch Organizers
2004	Methodological and Didactical Aspects of Case Studies 3 rd ITdNet-Meeting, Gothenburg, Sweden	Keynote Lecture Organizers
2004	Transdisciplinary Creation of a Shared Vision for Sustainable Development 7 th International Conference on Linking Systems Thinking, Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia	Invited Presenter Conference Organizers
2004	Creative Problem Solving in Transdisciplinary Case Studies for Sustainable Development ENCOS 2004-1 st European Networks Conference in Sustainability: Communication and Management of Environmental Knowledge in Europe – Requirements on a New European Level for Capacity Building	Invited Lecturer Conference Organizers
2002	The Role of Creative Problem Solving within Sustainable Development 54 th International Atlantic Economic Conference, Washington DC, USA	Invited Presenter Conference Organizers
2002	Transdisciplinary Change Processes: Urban and Regional Experiences from Austria International Workshop on Transdisciplinarity, ETH Zurich, Zurich, Switzerland	Workshop Organizer and Presenter ETH Zurich
2002	The Erzherzog Johann Case Study – Sustainability in the Context of Innovation 3 rd ITdNet-Meeting, ETH-Zurich, Zurich, Switzerland	Invited lecture ETH Zurich
2002	Dynamic Creativity Management as a Tool for Sustainability. A Constructivist Point of View 6 th International Conference on Linking Systems Thinking, Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia	Invited lecture Conference Organizers
2002	Sustainable Development of a Less Developed Region ETH Zurich, Zurich, Switzerland	Invited lecture ETH Zurich
2001	Creativity Management for Business Start-Ups International CIC-Europe (Creativity and Innovation Center Europe), Seminar on Creativity & Innovation beyond all Boundaries, Brussels, Belgium	Keynote lecture Conference Organizers
2000	An Inter- and Transdisciplinary Evaluation Model as an Instrument for Strategic Planning 5 th International Conference on Linking Systems Thinking, Innovation, Quality, Entrepreneurship and Environment, Maribor, Slovenia	Plenary presenter Conference Organizers

Report of Scholarship: Publications

Monographs

1. **Steiner, G.** (2024): Complex Problem Solving, Creativity, and Innovation for a Resilient and Sustainable Society in Times of Poly-Crises: A Transdisciplinary Approach (working title) (Harvard University Press, in negotiation).
2. Mulez, M. and coauthors (alphabetic order) - Božičnik, S./Čančer, V./Hrast, A./Lazanski, T.J./ Jurše, K./Kajzer, Š./Knez-Riedl, J./ Mlakar, T./Mulej, N./Potočan, V./Risopoulos, F./Rosi, B./**Steiner, G.**/Štrukelj, T./Uršič, D./Ženko, Z. (2012): Dialectical Systems Thinking and the Law of Requisite Holism concerning Innovation. In: Exploring Unity Through Diversity, BCSSS Book Series Vol. 3, Emergent Publications, Goodyear, Arizona.
3. Kislinger, M./Von der Hellen, C./**Steiner, G.** (2011): Project Report: Systems Analysis Shared Space. Graz: University of Graz (in German).
4. **Steiner, G.** (2011): The Planetary Model of Collaborative Creativity: Systemic-Creative Problem Solving for Complex Challenges (Das Planetenmodell der kollaborativen Kreativität: Systemisch-kreatives Problemlösen für komplexe Herausforderungen.) Wiesbaden: Gabler Research (in German).
5. Sustainability Task Force of the University of Graz (as member) (2006): Nachhaltigkeitsbericht der Universität Graz (according Global Reporting Initiative – GRI). Graz: Universität Graz.
6. Posch, A./**Steiner, G.**/Risopoulos, F. (2005): The Erzherzog-Johann Case Study: An Inter- and Transdisciplinary Education and Research Project of the Cultural Landscape Research (Die Erzherzog-Johann Fallstudie: Ein inter- und transdisziplinäres Lehr- und Forschungsprojekt der Kulturlandschaftsforschung). Wien: Bundesministerium für Bildung, Wissenschaft und Kultur (bwk) (in German).
7. **Steiner, G.** (2003): Design in Österreich im Jahr 2002. Wien: Österreichische Designstiftung.
8. **Steiner, G.**/Strebel, H./Jarz, D./Pfeiffer, D. (2003): Vom Kundenbedarf zur Produktinnovation: Eine empirische Analyse von Designunternehmen in Österreich und Bayern. Abschlussbericht des Projekts Innovationen durch Design - Eine Analyse der österreichischen Design Branche im Hinblick auf Innovationspotenzial und Wettbewerbssituation. Graz.
9. Katter, R./**Steiner, G.** et al. (2000): Leitschwerpunkt Kulturlandschaftsforschung: Modul MU7 Bergbaufolgelandschaften - Perspektiven zur Gestaltung und Nutzung von Bergbaufolgelandschaften. 2. Arbeitsabschnitt – Endbericht Bd. 1–5 [German] (Band 1 Zusammenfassender Bericht, Band 2 Interdisziplinäres Bewertungsmodell, Band 3 Bürgerschaftlicher Dialog, Band 4 Regionale Umfeldhebungen, Band 5 Abbildungskatalog), Joanneum Research, Graz 2000.
10. Katter, R./**Steiner, G.** et al. (1999): Perspektiven zur Gestaltung und Nutzung von Bergbaufolgelandschaften [German]. Graz: ÖKO.97.001-01 Joanneum Research.
11. Strebel, H./**Steiner, G.** et al. (1998): Verwertungsnetze im produzierenden Bereich. Band 25/1998. Wien: Schriftenreihe des BMUJF.

Editorials

1. Hanus, Ch./**Steiner, G.** (2019) (eds.): Danube Future Interdisciplinary School Proceedings 2017: Cultural and Social Implications of Global Change on the Danube River Basin. Krems a.d. Donau: Edition Donau-Universität Krems.
2. Scholz, R.W./**Steiner, G.**/ Parycek, P. (2016–2018) (eds.): Sustainability and Digital Environment. Special Issue in: Sustainability. Section Sustainable Engineering and Science (http://www.mdpi.com/journal/sustainability/special_issues/digital_environment).
3. **Steiner, G.**/ Geissler, B. (2016–2018) (eds.): Phosphorus Circular Economy: Closing loops through sustainable innovation. Special Issue in: Sustainability. Section Sustainable Engineering and Science (http://www.mdpi.com/journal/sustainability/special_issues/phosphorus_economy).
4. Scholz, R.W./**Steiner, G.** (2015) (eds.): The Reality of Transdisciplinary Processes (focusing on Science – Industry Collaborations). Special Feature in: Sustainability Science (Springer).
5. **Steiner, G.**/Posch, A. (2006) (eds.): Innovative Research and Education for a Sustainable Development (Innovative Forschung und Lehre für eine nachhaltige Entwicklung). Aachen: Shaker-Verlag (in German).

Original articles in SCI, SSCI and A & HCI journals

1. Han, E./Weitzer, J./Birmann, B.M./Bertau, M./Zenk, L./Caniglia, G./Laubichler, M.D./Schernhammer, E.S./**Steiner, G.** (2023): Association of personality traits and socio-environmental factors with COVID-19 pandemic-related conspiratorial thinking in the D-A-CH region. *SN Social Sciences* (43545/790): <https://doi.org/doi:10.1007/s43545-023-00790-9> [IF 3.8] .
2. Schernhammer, E.S./Weitzer, J./Han, E./Birmann, B.M./Bertau, M./Zenk, L./Caniglia, G./Laubichler, M.D./**Steiner, G.** (2023): Determinants of Trust in Times of Crises: A Cross-Sectional Study of 3,065 German-speaking Adults from the D-A-CH Region, *PLoS ONE* 18(10): e0286488. <https://doi.org/10.1371/journal.pone.0286488> [IF 3.8].
3. Mew, M./**Steiner, G.**/ Haneklaus, N./Geissler, B. (2023): Phosphate price peaks and negotiations – Part 2: The 2008 peak and implications for the future. *Resources Policy* 83; <https://doi.org/10.1016/j.resourpol.2023.103588>. [IF 10.2].
4. Geissler, B. /**Steiner, G.**/Haneklaus, N./Mew, M. (2023): Phosphate price peaks and negotiations – Part 1: Fundamentals and the 1975 peak. *Resources Policy* 83; <https://doi.org/10.1016/j.resourpol.2023.103587>. [IF 10.2].
5. Scholz, R.W./**Steiner, G.** (2023): Process ownership in science–practice collaborations: the special role of transdisciplinary processes in sustainable transitioning. *Sustainability Science*, <https://doi.org/10.1007/s11625-023-01291-7>. [IF 7.2].
6. Satalkina, L./Zenk, L./**Steiner, G.** (2022). Transdisciplinary multistage system modeling: Migrant entrepreneurship in the digital economy. *Kybernetes* 51(13): 219–240; <https://doi.org/10.1108/K-02-2022-0255> [IF 2.24].
7. Scholz, R.W./**Steiner, G.** (2022): The Role of Transdisciplinarity for Mineral Economics and Mineral Resources Management. *Mineral Economics*; <https://doi.org/10.1007/s13563-022-00331-5>. [IF 2.5].
8. Satalkina, L./**Steiner, G.** (2022): Social innovation: a retrospective perspective. *Minerva*; <https://doi.org/10.1007/s11024-022-09471-y> [IF 2.3].
9. Weitzer, J./Birmann, B.M./Steffelbauer, I./Bertau, M./Zenk, L./Caniglia, G./Laubichler, M.D./Schernhammer, E.S./**Steiner, G.** (2022): Willingness to receive an annual COVID-19 booster vaccine in the German-speaking D-A-

CH region in Europe: a cross-sectional study. *The Lancet Regional Health – Europe* 18; <https://doi.org/10.1016/j.lanepe.2022.100414> [IF 20.9].

10. Bates, R./Brenner, B./Schmid, E./**Steiner, G.**/Vogel, S. (2022): Towards meta-competences in higher education for tackling complex real-world problems - a cross disciplinary review. *International Journal of Sustainability in Higher Education* 23(8): 290-308 [IF 2.9].
11. Hakkar, M./Arhouni, F.A./Mahrou, A./Bilal, E./Bertau, M./Roy, A./**Steiner, G.**/Haneklaus, N./Mazouz, H./Boukhair, A./Benjelloun, M. (2021) Enhancing Rare Earth Element Transfer from Phosphate Rock to Phosphoric Acid using an Inexpensive Fly Ash Additive. *Minerals Engineering* 172; <https://doi.org/10.1016/j.mineng.2021.107166> [IF 4.8].
12. Zenk, L./Hynek, N./Edelmann, N./Virkar, S./Parycek, P./**Steiner, G.** (2021): Exploring motivation to engage in intraorganizational knowledge sharing: a mixed-methods approach. *Kybernetes* 9; <https://doi.org/10.1108/K-12-2020-0868> [IF 2.4].
13. Schernhammer, E./Weitzer, J./Laubichler, M.D./Birmann, B.M./Bertau, M./Zenk, L./Caniglia, G./Jäger, C.C./**Steiner, G.** (2021): Correlates of COVID-19 vaccine hesitancy in Austria: trust and the government. *Journal of Public Health* (Oxford University Press), fdab122. doi: 10.1093/pubmed/fdab122 [IF 4.7].
14. Caniglia, G./Jaeger, C./Schernhammer, E./**Steiner, G.**/Russo, F./Renn, J./Schlosser, P./Laubichler, M.D. (2021): COVID-19 heralds a new epistemology of science for the public good. *History and Philosophy of the Life Sciences* 43, 59; <https://doi.org/10.1007/s40656-021-00413-7> [IF 1.2].
15. Weitzer, J./Laubichler, M.D./Birmann, B.M./Bertau, M./Zenk, L./Caniglia, G./Jäger, C.C./**Steiner, G.**/Schernhammer, E. (2021): Independent evaluations and transparent communication are crucial to reduce COVID-19 vaccine hesitancy. *International Journal of Environmental Research and Public Health* 17(21), 7884; <https://doi.org/10.3390/ijerph17217884> [IF 4.6].
16. Weitzer, J./Papantoniou, K./Zenk, L./Laubichler, M.D./Bertau, M./Caniglia, G./Jaeger, C./Seidel, S./Klösch, G./**Steiner, G.**/Schernhammer, E. (2021): Effects of working from home on quality of life and perceived productivity during the COVID-19 lockdown in Austria: A cross-sectional study. *International Archives of Occupational and Environmental Health*. <https://doi.org/10.1007/s00420-021-01692-0> [IF 3.0].
17. Laubichler, M.D./Jäger, C./Kainz, M./Schernhammer, E./Yang, S./Zenk, L./Zhang, Y./**Steiner, G.** (2020): COVID-19 reveals the need for One Health network governance. *Global Sustainability* (Cambridge University Press) (in press).
18. Caniglia, G./Zenk, L./Schernhammer, E./Bertau, M./**Steiner, G.**/Kainz, M./Jaeger, C./Schlosser, P./Laubichler, M.D. (2021): Scientists' Responsibility for Global Futures. *Science & Diplomacy* (AAAS), <https://www.sciencediplomacy.org/perspective/2021/scientists-responsibility-for-global-futures,01/22/2021>.
19. Shang, D./Geissler, B./Mew, M./Satalkina, L./Zenk, L./Tulsidas, H./Barker, L./El-Yahyaoui, A./Hussein, A./Taha, M./Zheng, Y./Wang, M./Yao, Y./Liu, X./Deng, H./Zhong, J./Li, Z./**Steiner, G.**/Bertau, M./Haneklaus, N. (2021): Uranium Resources in China's Phosphate Rock: Review and Outlook. *Renewable and Sustainable Energy Reviews* 140, 110740; <https://doi.org/10.1016/j.rser.2021.110740> [IF 14.98].
20. Abbes, N./Bilal, E./Hermann, L./**Steiner, G.**/Haneklaus, N. (2020). Thermal beneficiation of Sra Ouertane (Tunisia) low-grade phosphate rock. *Minerals* 10(11), 937; <https://doi.org/10.3390/min10110937> [IF 2.6].
21. Zenk, L./**Steiner, G.**/Pina e Cunha, M./Laubichler, M.D./Bertau, M./Kainz, M.J./Jäger, C./Schernhammer, E.S. (2020). Fast response to superspreading: Uncertainty and complexity in the context of COVID-19. *International Journal of Environmental Research and Public Health*, 17, 7884; <https://doi.org/10.3390/ijerph17217884> [IF 4.6].
22. Hörtl, A./**Steiner, G.**/Lumetsberger, T./Weinhäupl, H./Greilhuber, I./Wrbka, T./Vadrot, A./Essl, F./Tribtsch, A./Sturmbauer, C./Gratzer, G. (2020): Ein Netzwerk für die Biodiversität in Österreich: Inter- und

transdisziplinäres Netzwerk zu Biodiversität & Ökosystemleistungen. *GAlIA*, Ecological Perspectives on Science and Society 29(2):126-128 [IF 1.9].

23. Risopoulos, F./Daghofer, F./**Steiner, G.** (2020): Competences for Solving Complex Problems: A Cross-Sectional Survey on Higher Education for Transformative Learning and Transdisciplinarity. *Sustainability*, 12, 6016: DOI:10.3390/su12156016 (Section Sustainable Education and Approaches) [IF 3.3].
24. **Steiner, G.**/Zenk, L./ Schernhammer, E. (2020): Prepared for the next wave of COVID-19: Resilience in the face of pandemic spreads. *International Journal of Environmental Research and Public Health*, 17(11), 4098; DOI:10.3390/ijerph17114098 [IF 4.6].
25. Satalkina, L./**Steiner, G.** (2020): Digital Entrepreneurship: a theory-based systematization of core performance indicators. *Sustainability*, 12, 4018: DOI:10.3390/su12104018 (Section Economic, Business and Management Aspects of Sustainability) [IF 3.3].
26. Satalkina, L./**Steiner, G.** (2020): Digital Entrepreneurship and its Role in Innovation Systems: A Systematic Literature Review as a Basis for Future Research Avenues for Sustainable Transitions. *Sustainability*, 12, 2764: DOI:10.3390/su12072764 (Section Economic, Business and Management Aspects of Sustainability) [IF 3.3].
27. Geissler, B./Mew, M./Matschullat, J./**Steiner, G.** (2020): Innovation potential along the phosphorus supply chain: A micro and macro perspective on the mining. *Science of the Total Environment*, DOI: 10.1016/j.scitotenv.2020.136701 [IF 9.8].
28. **Steiner, G.**/Haneklaus, N./Geissler, B. (2020): Making Uranium Recovery from Phosphates Great Again? *Environmental Science & Technology*, DOI: 10.1021/acs.est.9b07859 [IF 9.0].
29. Geissler, B./Mew, M./**Steiner, G.** (2019). Phosphate supply security for importing countries: Developments and the current situation. *Science of the Total Environment*, 677: 511-523. DOI: 10.1016/j.scitotenv.2019.04.356 [IF 9.8].
30. **Steiner, G.**/Geissler, B./Schernhammer, E.S. (2019). Hunger and Obesity as Symptoms of Non-Sustainable Food Systems and Malnutrition, *Appl. Sci.* 9 (6): 1062.r
31. Zenk, L./Hynek, N./Schreder, G./Zenk, A./Pausitz, A./**Steiner, G.** (2018): Designing Innovation Courses in Higher Education using LEGO Serious Play. *Intern. Journal of Management and Applied Research*, 5(4). [IF 2.7].
32. Geissler, B./Hermann, L./Mew, M./**Steiner, G.** (2018): Striving toward a phosphorus circular economy: The role of phosphate rock mining. *Minerals*, 8, 395: DOI: 10.3390/min8090395 [IF 2.6].
33. **Steiner, G.**/Geissler, B. (2018): Sustainable Mineral Resource Management – Insights into the Case of Phosphorus. *Sustainability*, 10(8): 2732. DOI: 10.3390/su10082732 [IF 3.3].
34. Scholz, R.W./Bartelsman, E.J./Diefenbach, S./Franke, L./Grunwald, A./Helbing, D./Hill, R./Hilty, L./Höjer, M./Klauser, S./Montag, C./Parycek, P./Pereira, G.V./Prote, J.P./Renn, O./Reichel, A./Schuh, G./**Steiner, G.** (2018): Unintended Side Effects of the Digital Transition: European Scientists' Messages from a Proposition-Based Expert Round Table. *Sustainability*, 10(6): 2001. DOI: 10.3390/su10062001 [IF 3.3].
35. Geissler, B./**Steiner, G.**/Mew, M. (2018): Clearing the fog on phosphate rock data - Uncertainties, fuzziness, and misunderstandings. *Science of the Total Environment*, 11(642): 250-263. DOI: 10.1016/j.scitotenv.2018.05.381 [IF 9.8].
36. Mew, M./**Steiner, G.**/Geissler, B. (2018): Phosphorus Supply Chain—Scientific, Technical, and Economic Foundations: A Transdisciplinary Orientation. *Sustainability*, 10(4): 1087; DOI:10.3390/su10041087 [IF 3.3].
37. **Steiner, G.**/Geissler, B./Schreder, G./Zenk, L. (2018): Living sustainability or pretending to? From explicit self-report measures to implicit cognition. *Sustainability Science*, 13(4): 1001-1015. DOI: 10.1007/s11625-018-0561-6 [IF 7.2].

38. **Steiner, G.** (2018): From probabilistic functionalism to a mental simulation of innovation: By collaboration from vulnerabilities to resilient societal systems. *Environment Systems and Decisions* 38(1): pp. 92–98. DOI: 10.1007/s10669-018-9674-9 [IF 2.4].
39. Provasnek, A./Geissler, B./Schmid, E./**Steiner, G.** (2016): Sustainable Corporate Entrepreneurship: Performance and Strategies toward Innovation. *Business Strategy and the Environment*, 26(4): pp. 521–535. DOI: 10.1002/bse.1934 [IF 10.3].
40. Provasnek, A./Schmid, E./**Steiner, G.** (2016): Stakeholder engagement: Keeping business legitimate in Austria's natural mineral-water bottling industry. *Journal of Business Ethics*. DOI:10.1007/s10551-016-3121-y. (Best Paper Award BOKU, Vienna 2016) [IF 7.2]
41. Geissler, B./Mew, M./Weber, O./**Steiner, G.** (2015): Efficiency performance of the world's leading corporations in phosphate rock mining. *Resources, Conservation, and Recycling*, 105, pp. 246–258
Doi.org/10.1016/j.resconrec.2015.10.008 [IF 13.2].
42. **Steiner, G.**/Geissler, B./Watson, I./Mew, M. (2015): Efficiency developments in phosphorus mining over the last three decades. *Resources, Conservation, and Recycling*, 105, pp. 235–245. Doi.org/10.1016/j.resconrec.2015.10.004 [IF 13.2].
43. Scholz, R. W./**Steiner, G.** (2015c): The real type and ideal type of transdisciplinary processes: Part II – What constraints and obstacles do we meet in practice? *Sustainability Science*, 10(4), pp. 653–671. DOI 10.1007/s11625-015-0327-3. (Best Paper Award 2015 as Outstanding Paper of Sustainability Science Journal) [IF 7.2].
44. Scholz, R. W./**Steiner, G.** (2015b): The real type and ideal type of transdisciplinary processes: Part I – theoretical foundations. *Sustainability Science*, 10(4), pp. 527–544. DOI 10.1007/s11625-015-0326-4 [IF 7.2].
45. Scholz, R. W./**Steiner, G.** (2015a): Transdisciplinarity at the crossroads. *Sustainability Science*, 10(4), pp. 521–526. DOI 10.1007/s11625-015-0338-0 [IF 7.2].
46. **Steiner, G.** (2014): Problem discovery as a collaborative, creative, and method-guided search for the “real problems” as raw diamonds of innovation. Working Paper 2014-0003, Weatherhead Center for International Affairs, Harvard University, May 2014.
47. **Steiner, G.**/Risopoulos, F./Mulej, M. (2014): Social Responsibility and Citizen-Driven Innovation in Sustainably Mastering Global Socio-Economic Crises. *Systems Research and Behavioral Science* (2014). DOI:10.1002/sres.2255 [IF 1.8].
48. **Steiner, G.**/Risopoulos, F./Mulej, M. (2013): Competences for Citizen-Driven Innovation in Crisis Resolution. *Systemic Practice and Action Research*, 26(6), pp. 571–577 [IF 1.7].
49. **Steiner, G.**/Scherr, J. (2013): Higher Education for Complex Real-World Problems and Innovation: A Tribute to Heufler's Industrial Design Approach. *Creative Education*, 4(7A2), pp. 130–136 [IF 1.3].
50. **Steiner, G.** (2013): Competences for Complex Real-World Problems: Toward an Integrative Framework. Working Paper 2013-0002, Weatherhead Center for International Affairs, Harvard University, April 2013.
51. **Steiner, G.** (2012): Complex Human & Environment Systems: New Conceptual Paradigms and Transdisciplinary Approaches. *Journal of Cleaner Production*, 68, pp. 279–280. DOI:10.1016/j.jclepro.2012.10.004 [IF 9.3].
52. **Steiner, G.** (2009): The Concept of Open Creativity: Collaborative Creative Problem Solving for Innovation Generation - a Systems Approach. *Journal of Business and Management*, 15(1), pp. 5–34. (Best Paper Award of the Western Decision Sciences Institute for Annual Recognition of Best Published Paper in Management and Organizational Behavior)

53. **Steiner, G.** (2008): Supporting Sustainable Innovation through Stakeholder Management: a systems view. *International Journal of Innovation and Learning*, 5(6), pp. 595-616 [IF 1.0].
54. Mader, C./Zimmermann, F.M./**Steiner, G.**/Risopoulos, F. (2008): Regional Centre of Expertise (RCE) Graz-Styria: A Process of Mobilization Facing Regional Challenges. *International Journal of Sustainability in Higher Education*, 9(4), pp. 402-415 [IF 2.9].
55. Posch, A./**Steiner, G.** (2006): Integrating Research and Teaching on Innovation for Sustainable Development. *International Journal of Sustainability in Higher Education*, 7(3), 2006, pp. 276-292 [IF 2.9].
56. **Steiner, G.**/Posch, A. (2006): Higher education for sustainability by means of transdisciplinary case studies: An innovative approach for solving complex, real-world problems. *Journal of Cleaner Production*, 14, 2006, pp. 877-890 [IF 9.3].
57. **Steiner, G.**/Laws, D. (2006): How appropriate are famous concepts from higher education for solving complex real-world problems? A comparison of the Harvard and the ETH case study approach. *International Journal of Sustainability in Higher Education*, 7(3), pp. 322-340 [IF 2.9].
58. **Steiner, G.** (2006): The Planetary Model as an Organizational Framework for the Generation of Innovation. A critical reflection on today's innovation practice. *Our Economy Review NG*, 52, 1-2, 2006, pp. 18-23.

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Narrative Report

Gerald Steiner is Professor of organizational communication and innovation, Dean of the Faculty of Business and Globalization, and Chair of the Department for Knowledge and Communication Management at UWK – Danube University Krems in Austria. He also (co)founded and leads four transdisciplinary labs: (1) Transdisciplinary Laboratory for Sustainable Mineral Resources (SMR TdLab); (2) Austrian Biodiversity Hub; (3) Transdisciplinarity Laboratory Sustainable Digital Environments (SDE TdLab); (4) GovLab Austria. Most recently, he initiated the (4) Transatlantic Research Lab on Complex Societal Challenges with key partners from Harvard University, Santa Fe Institute and Arizona State Institute (ASU), Konrad Lorenz Institute (KLI), Freiberg University, Medical University Vienna (MUW), and the Complexity Science Hub (CSH). Furthermore, he is the organizer and chair of the US Expert Roundtable and a co-initiator of the European Expert Roundtables on ‘Sustainable Digital Environments’. Since 2018 he has been member of the Associate Faculty at the Complexity Science Hub Vienna. Gerald also serves as a member of the Biodiversity Council Austria and is member of the board of directors of the European Communication Institute in Athens. Gerald received his Venia Legendi in “Systemic and Sustainability Management” (“Habilitation”/postdoctoral thesis) and his PhD in management studies and social sciences (with a focus on Organizational and Innovation Management) from the University of Graz, and a Bachelor of Science in mechanical engineering, both Austria. His training in management science, entrepreneurship, and mechanical and civil engineering was partly conducted at UC Berkeley, UCLA, and the University of Oklahoma at Norman.

He is a former Schumpeter Professor and Visiting Scholar at Harvard University’s Weatherhead Center for International Affairs (WCFIA). Before, he was an Associate Professor of Systemic and Sustainability Management at the Institute of Systems Sciences, Innovation & Sustainability Research at the University of Graz (he was also one of four founding members of this institute, which was established in 2007). Further, he teaches applied innovation processes and design thinking at the School of Industrial Design and innovation management and entrepreneurship in the International Industrial Management Program both at the University of Applied Sciences (FH Joanneum) in Styria. Over the past decades he has developed and co-directed several graduate school curricula and teaches numerous graduate-level seminars and courses both nationally and internationally.

Gerald is a *sustainability-oriented systems- and complexity scientist*. His research focuses on *multilevel innovation systems* and communication- and collaboration processes in the context of a sustainable transition of complex coupled *human-environment-systems*. Here, he is particularly interested in innovation niches and adaptive capacities in relation to vulnerabilities and systemic risk. His current research interest is to *better understand* (1) societal grand challenges, such as sustainable resource management, pathways to global food security, environmental crises, one-health, and planetary health; (2) collaboration-based innovation and entrepreneurial activities as potential system interventions for sustainable development; (3) competences for complex problem solving; (4) transdisciplinarity theory and -methodology.

Most recently and inspired by Josiah Ober, he also focuses on knowledge integration across different periods of time (incl. integrating lessons learned from the past incl. ancient societies). Initially, his primary projects related to organizational and regional societal/innovation systems. Later, at Harvard University, his work began to focus on international affairs and crises-related innovation and collaborative problem-solving processes within this context (e.g., economic crises, global food security, energy systems, sustainable resource management). Now, at Danube University with its strong transdisciplinary orientation, he connects organizational and global perspectives. He currently is also Director of the PhD Program Technology, Innovation, and Cohesive Societies and served as Co-Director of the PhD Program in Migration Studies.

Steiner’s research uses a combination of statistical analysis, systems modelling, transdisciplinary knowledge integration and most recently cognitive testing. In the last ten years he has published approximately 60+ scientific papers in high-ranked international journals such as Sustainability Science; Sustainability; Environment Systems and Decisions; Resources, Conservation, and Recycling; Renewable and Sustainable Energy Reviews; Cleaner Production; Resources Policy; Minerals; Mineral Economics; Minerals Engineering; Science of the Total Environment; Global Sustainability; GAIA; International Journal of Sustainability in Higher Education; Creative Education; Systemic Practice and Action Research; and Systems Research and Behavioral Science; Kybernetes; Journal of Business Ethics; Business Strategy and the Environment; Journal of Business and Management; International Journal of Management and Applied Research; International Journal of Innovation and Learning; Applied Sciences; The Lancet Regional Health – Europe; International Journal of Environmental Research and Public Health; Journal of Public Health (Oxford); Science & Diplomacy (AAAS); History and Philosophy of the Life Sciences; Minerva etc. In addition, he published 10+ monographs, 5 editorials, 25+ book chapters, and 30+ contributions in conference proceedings. His work has received a multitude of national and international recognitions such as, e.g., Daimler Chrysler Alpen-Adria Research Award; Best Paper Awards of the Sustainability Science Journals, the Western Decision Sciences Institute, and the University of Natural Resources and Life Sciences in Vienna; J.A. Schumpeter Fellowship of Harvard University; Entrepreneurship Institute Award of the University of Oklahoma; among others.

In his freelance consulting business and as workshop leader, Gerald Steiner has also provided expert advice to SMEs, large international companies, regions, and governments in the fields of sustainable innovation, strategic management & future development, organizational communication, competence development, and team building. Prior to his academic career, Gerald Steiner has several years of professional experience as supervising engineer in tunnel construction (e.g., 10 km long Plabutsch road tunnel, Austria; Fulda railway tunnel, Germany) and special-purpose machinery manufacture and as a freelance scientist at Joanneum Research (Austria).

315 Words Short Version

Gerald Steiner is Professor of organizational communication and innovation, Dean of the Faculty of Business and Globalization, and Chair of the Department for Knowledge and Communication Management at UWK - Danube University Krems in Austria. He also (co)founded and leads four transdisciplinary labs: (1) Transdisciplinary Laboratory for Sustainable Mineral Resources; (2) Austrian Biodiversity Hub; (3) Transdisciplinarity Laboratory Sustainable Digital Environments; (4) GovLab Austria. Most recently, he initiated the (4) Transatlantic Research Lab on Complex Societal Challenges with key partners from US and Europe. Furthermore, he is the organizer and chair of the US Expert Roundtable and a co-initiator of the European Expert Roundtables on 'Sustainable Digital Environments'. Since 2018 he has been member of the Associate Faculty at the Complexity Science Hub Vienna. Gerald also serves as a member of the Biodiversity Council Austria and is member of the board of directors of the European Communication Institute in Athens. Gerald received his Venia Legendi in "Systemic and Sustainability Management" and his PhD in management studies and social sciences (with a focus on Organizational and Innovation Management) from the University of Graz, and a Bachelor of Science in mechanical engineering, both Austria. His training in management science, entrepreneurship, and mechanical and civil engineering was partly conducted at UC Berkeley, UCLA, and the University of Oklahoma at Norman.

Gerald is a *sustainability-oriented systems- and complexity scientist*. His research focuses on *multilevel innovation systems* and *transdisciplinary communication- and collaboration processes* in the context of a sustainable transition of complex coupled *human-environment-systems*. Here, he is particularly interested in innovation niches and adaptive capacities in relation to vulnerabilities and systemic risks. His current research interests include (1) societal grand challenges, such as sustainable resource management, pathways to global food security, environmental crises, one-health, and planetary health; (2) collaboration-based innovation and entrepreneurial activities as potential system interventions for sustainable development; (3) competences for complex problem solving; (4) transdisciplinarity theory and -methodology.

6-Liner

Gerald Steiner is a systems- and sustainability scientist and Professor of Innovation and Organizational Communication, Dean of the Faculty of Business and Globalization, and Chair of the Department for Knowledge and Communication Management at UWK - Danube University Krems in Austria. Beyond others, he is Co-Chair of the [Transdisciplinary Laboratory for Sustainable Mineral Resources](#) and PI and Co-Chair (together with Roland Scholz) of the [Phosphate Data and Knowledge Hub P-DaKH](#). He is also initiator of the (4) Transatlantic Research Lab on Complex Societal Challenges and former a former Schumpeter Professor and Visiting Scholar at Harvard University's Weatherhead Center for International Affairs (WCFIA).