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

<u>Dean of Faculty of Business and Globalization</u>

Chair of Department for Knowledge and Communication Management

Transdisciplinarity Laboratories at the University for Continuing Education Krems:

- (1) Co-Chair Sustainable Mineral Resources (SMR-Td Lab)
- (2) Founding Chair Biodiversity-Hub Austria
- (3) Co-Chair Sustainable Digital Environments (SDE-Td Lab)



Co-Founder and Coordinator of the <u>Transatlantic Research Lab on Complex Societal Challenges</u>

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)

Office: University for Continuing Education Krems – Danube University Krems

Department for Knowledge and Communication Management

Faculty of Business and Globalization

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Work Phone: 0043 (0) 2732 893-2331 (Austria work)

0043 (0) 664 834 0019 (Austria mobile) 001 (617) 519 9931 (USA mobile)

Zoom: https://donau-

uni.zoom.us/j/4677867699?pwd=R0szc1B5dDlKTlQrTExLY2p4aHFlQT09

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:			
06/2009	Privat-Dozent (Habilitation)	Systemic and Sustainability Management	University of Graz, Austria
06/2004	PhD	Organizational & Innovation Studies	University of Graz, Austria
06/1996	MBA	Title of Thesis "Air Quality Management in the South Coast Air Basin"	University of Graz, Austria
01/96-05/96	Semester abroad	Training & research in air quality management	UCLA, Los Angeles, CA, USA
09/94-08/95	Semester abroad	Training in Management Science & Civil Engineering	University of Oklahoma at Norman, OK, USA
03-06/94	Semester abroad	Training & research in Management Science & Civil Engineering	UC Berkeley, CA
06/1986	Ing.	Mechanical Engineering	Higher Technical School for Mechanical Engineering and Operating Technology (HTL), Wolfsberg, Carynthia, Austria
Academic App	pointments:		
2018-	Associate Faculty	Complexity Science Hub	Danube University, Krems, Austria
2015-	Dean	Faculty of Business and Globalization	Danube University, Krems, Austria
2015-	Chair	Department for Knowledge and Communication Management	Danube University, Krems, Austria
2015-	Professor	Organizational Communication and Innovation	Danube University, Krems, Austria
09/12-12/15	Visiting Scholar	Weatherhead Center for International Affairs	Harvard University, Boston, MA
09/11-08/12	J.A. Schumpeter Professor	Weatherhead Center for International Affairs	Harvard University, Boston, MA
2009-	Associate Lecturer	Industrial Management	School of International Industrial Management, FH Joanneum – University of Applied Sciences, Kapfenberg (Styria), Austria
2009-2011	Associate Professor	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	Business Administration	ISIS, Economics and Social Sciences University of Graz, Austria
2000-2009	Associate Lecturer	School of Information & Engineering	FH Joanneum – University of Applied Sciences, Kapfenberg (Styria), Austria
1998-	Associate Lecturer	Industrial Design	FH Joanneum – University of Applied Sciences, Graz, Austria
Appointments	s at Independent Resear	ch Institutions:	
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
1997-2011	Sole proprietor	other projects (www.xohana.com). 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-founder & director	Summer School for High School Students, Mondsee (Salzburg, Austria) Program co-designed and curriculum developed
1989-1992 (winters only)	Founder and business owner	Organizer of ski and adventure vacations in the Austrian Alps (previously several years of experience as a ski instructor in various Austrian ski schools)
1986-1993	Senior/lead civil engineer, tunnel	Fehberger Stahlbau (Steel Construction) GmbH, Grosslobming, Styria (Austria)
	construction	Constructed (among other things) the 6.5-mile (10 km) long Plabutsch
	technology	Tunnel (Graz, Austria), and the railroad tunnels Dietrichshan and Fulda (Germany)

Major Administrative Leadership Positions:

09/23	First transatlantic investigator meeting, Transatlantic Research Lab on	Organizer
,	Complex Societal Challenges, Wachau, Austria	
09/21	First Global Transdisciplinarity Conference	Organizer and chair,
2021-	PhD Program in Technology, Innovation, and Cohesive Society (TICS), Faculty of Business & Globalization, University for Continuing	scientific committee Founder and co-chair, curriculum coordinator
2019-	Education - Danube University Krems Sustainability Officer of the University for Continuing Education -	Co-Officer
2013-	Danube University Krems	Co-Officer
2017-	"Faculty Talks", Faculty of Business & Globalization, Danube University Krems	Program director
2017-	Brown Bag Lunch Seminar, Faculty of Business & Globalization, Danube University Krems	Program director
2016-	Research Methodology Seminar, Faculty of Business & Globalization, Danube University Krems	Program director
2015-	Faculty of Business and Globalization, Danube University, Krems,	Dean
	Austria	
2015-	Department for Knowledge and Communication Management, Danube University, Krems, Austria	Chair
2015-2019	PhD Program in Migration Studies, Faculty of Business and	Co-chair and curriculum
	Globalization (with Prof. Mathias Czaika), Danube University Krems	coordinator
2008-2009	International Summer University Europa South/East, University of Graz	Co-organizer with Prof. Hans Ferdinand Angel
2007-2010	Faculty Committee, School of Environmental, Regional and Educational Sciences, University of Graz	Vice-chair
2009-2011	Science Seminar, Institute of Systems Sciences, Innovation and	Organizer and program
	Sustainability Research (ISIS), University of Graz	director
2007-2009	Faculty Development Advisory Council, School of Environmental,	Faculty Member
	Regional and Educational Sciences, University of Graz	
2007-2011	Faculty Exchange Program, School of Environmental, Regional and	Director
2007-2011	Educational Sciences, University of Graz Faculty Search Committees, Institute of Systems Sciences, Innovation and Sustainability Research (ISIS), University of Graz	Member

2007-2011	Environmental System Sciences, newly established interdisciplinary	Chair of Working Group
	Master's Program, Curriculum Development, University of Graz	
2007-2011	Environmental System Sciences, newly established interdisciplinary	Chair of Working Group
	Bachelor's Program, Curriculum Development, University of Graz	
2007	Launching of the Institute of Systems Sciences, Innovation and	One of Four Founding
	Sustainability Research (ISIS), University of Graz	Members
2006-	Knowledge Region Styria (Incorporated Association)	President and Co-
		Founder
2005-2006	Developed first Sustainability Report for the University of Graz	Sustainability Task Force
2004-2011	Student Exchange Program (ERASMUS and other International	Director
	Exchange Programs), Institute of Systems Sciences, Innovation and	
	Sustainability Research (ISIS), University of Graz	
2004-2005	Faculty Search Committee, Institute of Technology and Innovation	Member
	Management, University of Graz	

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	WCFIA, Harvard University, Boston, MA	Member
2011-2016	Study Group of the Future of the European Union	WCFIA, Harvard University, Boston, MA	Member
2010-2011	Strategy Group to develop a Master's Program in Innovation- based Education Management	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, OIKOS	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
National			
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	Keimblatt Ökodorf, a project to establish an "ecovillage" aimed at sustainability and self-development	Austria	Scientific Advisory Board Member
International			
2020-	Transatlantic Research Lab on Complex Societal Challenges	Global with scholars Europe and the US	Founder and director
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 S			
2012-	Academy of Management (AOM)	Memb	oer

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	Member
	Sustainable Development (ITdNet)	
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

2024	Editor, Special Issue on Sustainability	Sustainability
	Oriented Innovation Systems	
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	The Journal of Global Entrepreneurship Research (JGER)
	Editor	
2010-	Editorial Board Member	International Journal of Transitions and Innovation
		Systems (IJTIS)

Honors and Prizes:

2023	Keynote Lecture	78 th United Nations General Assembly, New York, NY, USA	Science Summit: Science Diplomacy in Times of Global Crises
2018	Award for the Project "Digital Entrepreneurship of Migrants in Austria"	Research Vessel (Arbeitsschiff) Tulln, Working Environments of the Future	Awarded by Governor of Lower Austria (Johanna Mikl- Leitner) for Exceptional Achievements in Digitalization and Work
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

2016	Best Paper Award 2015	Sustainability Science Journal	industry. Journal of Business Ethics. DOI:10.1007/s10551-016-3121-y. 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: Sustainability Science 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: With Creativity and Innovation Into a Sustainable Future?
2008 2007	Sustainability Award Johann Puch Award	Austrian Government Magna Steyr Auto- motive Engineering	Award for the Institute of Systems Sciences, Innovation and Sustainability Research (ISIS) in the track Research Key Lecture: With Creativity and Innovation into the Future: Is this Possible, or even Desirable?
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:

Current

2023- National Hub Biodiversity and Water

Austrian Federal Ministry for Education, Science and Research

Co-Initiator (EUR 285k for three years)

The aim of the hub is to promote networking and cooperation between the Austrian biodiversity and water research communities and with other relevant sectors. This will support Austria's participation in the relevant European partnerships and missions. The BiodiWa Hub is located at the University for Continuing Education Krems (Danube University Krems).

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.

Past

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)

PΙ

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

PΙ

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

PΙ

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.), exmined the potential for sustainable development based on innovations, focusing on the specific case of science and culture research in Styria.

culture research in Styria

2002-2004 Innovative Behavior of Industrial-Design Companies and Industrial Manufacturers

Österreichischen Designstiftung (Austrian Design Foundation)

PΙ

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

PΙ

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")

PΙ

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:

University of Graz, Institute for Innovation and Environmental Management

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

University of Graz, Inter-Faculty Teaching

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

University of Graz, Institute of Systems Sciences Innovation and Sustainability Research (ISIS)

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

Joanneum FH, University of Applied Sciences, School of Industrial Design, Graz, Austria

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

Innovation Management, Taught in English 1998-2009

Developer and Instructor

Master's students 60 hours/year

Danube University Krems

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-Outlook for the Future (future studies) (within the Master Program 'Innovation

Management'

Developer and Instructor

Master's students

2017-Information and Knowledge Management: Understanding and successfully shaping a

complex present/future through targeted creativity and innovation management (within the

MBA Program 'Communication Management'

Developer and Instructor

Master's students

2016 Co-Creation and Co-Design (within the Master Program 'Management and IT')

Developer and Instructor

Master's students

Formally Supervised Trainees:

Matthias Raddant, PhD Postdoctoral Fellow at the Complexity Science Hub and 2022-2024

Danube University Krems, Department Knowledge and

Communication Management

Postdoctoral Supervisor, work on Mineral Resource Management and Flow Analysis

2022-Doctor Cand. at Danube University Krems, PhD Program Milan Petit, MSc

'Technology, Innovation, and Cohesive Societies' (TICS)

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

2017-Liliya Satalkina, PhD Postdoctoral Fellow in the Department Knowledge and

Communication Management

Postdoctoral Supervisor, work on Sustainable Innovation

2019-Doctor Cand. at the University of Natural Resources and Life Romana Bates, Mag.

Sciences, Vienna

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).

2017-2021 Lukas Zenk, PhD Postdoctoral Fellow in the Department Knowledge and

> Communication Management; currently Associate Professor in the Department Knowledge and Communication Management

Postdoctoral Supervisor, work on Innovation and Network Research

Doctor Cand. at Danube University Krems, PhD Program 2017-Manfred Zentner, Mag.

'Migration Studies', Austria

Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professor Gudrun Biffl (Thesis Topic: Youth Work and Migration).

2014-2019 Doctor rer. nat (summa cum laude) at University of Resources Bernhard, Ing. BSc. BSc.

TU Bergakademie Freiberg, Geoengineering and Mining,

MSc MBA Dr.

Germany

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).

2012-2016 Anna Provasnek, MSc Dr. Doctor rer. soc. oec. at the University of Natural Resources and Life Sciences, Vienna

Doctoral Thesis Advisor, co-mentoring and co-supervision together with Professor Erwin Schmid (Thesis Topic: Entrepreneurial Responsibility and Social Acceptance toward Sustainability-Oriented Innovations).

2013-2014 Bernhard Geissler, Ing. BSc.
BSc. MSc Master's Student, Social and Economic Sciences & Environmental Systems Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Sustainable Phosphorus Mining: Actors, Sustainability Standards and Performance Evaluation of a Business Case).

2013 Armin Kaufmann & Andreas Masters' Student, Environmental Systems Sciences, University of Graz

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").

2011-2013 **Mitja Grusovnik,** BSc Master's Student, Social and Economic Sciences, University of Graz

Master's Thesis Director and advisor (Thesis Topic: Gender-specific buying behavior).

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, 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, 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, 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, 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, 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

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 Adv 2003-2004	isor (Thesis Topic: Evaluation and Birgit Traeger, MBA	d segmentation of the buyer behavior of consulting businesses) 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 Adv	isor (Thesis Topic: Bionics in the			
2001-2002	Hannes Schuster, MBA	Master's Student, Social and Economic Sciences, University of Graz		
Master's Thesis Adv	isor (Thesis Topic: Human Capita	1).		
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

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

Local Invited Presentations:

No presentations below were sponsored by outside entities.

The Future of the European Union – a Business Organizer and Host, 2011

> Perspective (Featuring Dr. Christoph Leitl, President Workshop

of the Austrian Federal Economic Chamber)

Harvard University and Weather Head Center for International Affairs,

Cambridge, MA, USA

Invited Presenter The Application of Collaborative Systems of 2011

Innovation to Diabetic Treatment Worldwide: How fit

are we for the future?

Austrian Scientists in North America (ASCINA), Harvard University,

Boston, MA USA

2006 Innovation tools as high potentials for the Invited Presenter,

communication process within sustainable regional

development

International Conference on Good (Best) Practice Cases in Regional Development after Mining and

Industry

Institute of Geography and Regional Science, University of Graz, Austria

The Potential of Networks 1997

Invited presenter

International Symposium on Innovative Recycling Networks, Graz, Austria

Report of National Teaching and Training

Teaching of Students in Courses:

FH Kuftstein, 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-

Sustainable Development, Innovation and Risk Developer and Co-

Instructor Management, Course # 110590304 and 110590309

> Master's students 60 hours/year

2009-2010

Developer and Scenario Planning for the Future

Master's students Instructor 60 hours/year

2000-2009

Developer and Theory of Organization and Entrepreneurship in

Industrial Electronics Instructor

> 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, Tools for Sustainability in Theory and Practice

Guest Lecturer Master's students 40 hours/year

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

1999-2008

Visiting Professor, Creative Problem Solving for Innovation

Guest Lecturer 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 Organizers

5th International Summer Academy on Technology Studies,

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

> Sufficienty 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

Td Teaching & Research Projects – a brief report from 2010 Invited presenter,

> with Drs. Binder and Posch Graz. Vienna, Austria

8th Annual Meeting of the International Transdisciplinarity Net on Case Meeting Organizers

Studies for Sustainable Development (ITdNet), Vienna, Austria

Actors and Interactions: Invited presenter 2010

Stakeholders and Innovation

8th Annual Meeting of the International Transdisciplinarity Net on Case

Studies for Sustainable Development (ITdNet), Vienna, Austria

Meeting Organizers

Creative communication management within complex 2010

entrepreneurial innovation processes: a

transdisciplinary systems approach

20th European Meeting on Cybernetics and Systems Research (EMCSR),

Vienna, Austria

2008 Stakeholders Matter: How Stakeholders can

Contribute to Sustainable Innovation

19th European Meeting on Cybernetics and Systems Research (EMCSR),

Vienna, Austria

2008 Symposium "Management, Organizational Change,

and Innovation"

19th European Meeting on Cybernetics and Systems Research" (EMCSR),

Vienna, Austria

2005 Organizational Creativity Management

3rd Meeting on Entrepreneurship in Theory and Practice: Integrated

Management of Ideas, Klagenfurt, Carynthia, Austria

2002 GPRS Users's Expectations about UMTS

International Conference on Operations Research, Klagenfurt, Carynthia,

Austria

1999 Enterprise Resource Planning – Experience from

Practice as Part of Academic Training

EXPONET 1999 – 6th International Conference for Internetworking

Enterprise Computing Telecommunications, Vienna, Austria

Invited lecture 1997 Holistic Socioeconomic Transformation: A Case Study

of the Eisenerz Region

SASE - 10th International World Conference on Socio-Economics, United Conference Organizers

Nations, Vienna, Austria

International:

2024 Informal expert meeting and dialogue on nutrients

including Nitrogen and Phosphorus

5th Meeting of the United Nations Environment Program (UNEP)

Working Group on Nitrogen United Nations General Assembly,

Nairobi, Kenya and hybrid, 9 – 10 January 2024

Dealing with International Complex Societal 2023

Challenges and Poly-Crises: Science Diplomacy -

Quo Vadis?

Science Diplomacy in Times of Global Crises: 9th edition of the Science Summit around the 78th United Nations General Assembly,

New York, NY, USA (Location: Austrian Cultural Forum, New York)

2022 Global Phosphorus Availability from a Dynamic and Innovation-based Perspective: How to Manage

Information and Knowledge Responsibly?

19th International Plant Nutrition Colloquium (IPNC), Brazil,

AUGUST 22 TO 27, 2022.

Invited lecture

with Dr. Risopoulos

Meeting Organizers

Invited lecture

Meeting Organizers

Co-Chair

Meeting Organizers

Invited lecture

Meeting Organizers

Invited lecture

Conference Organizers

Keynote lecture

Conference Organizers

Session Chair and Moderation

Lead and Moderation

Opening Keynote Speaker (together with

Professor E. Schernhammer)

Conference Organizers

Opening Keynote Lecture

Conference Organizers

2022	Status and Challenges of Phosphorus Reserves for Agriculture: a matter of quantity and quality	Invited Panel Speaker
	and Agriculture Organisation of the United Nations. Im on Soils for Nutrition - Soils, where food begins.	Conference Organizers
, in coluin 2 , circ y o.	., -	
2022	Who and How will we Decide Global Futures	Invited Panel Speaker
	2 at Arizona State University (ASU), Julie Ann Futures Laboratory. April 18-23, 2022.	Conference Organizers
2021	System boundaries and -interrelations: the case of	Opening Keynote Lecture
large to small sca	mineral resources and reserves uture Day 2021, dimensions of sustainability – from ale and vice versa. Danube University, Department Environment, Krems a.d. Donau, Austria, October	Conference Organizers
2021	Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies	Opening Keynote Lecture
1st Global Trans Sepembter 27-29	disciplinarity Conference. Krems a.d. Donau, Austria,	Conference Organizer
2021	Digitale Transformation – versteckte Risiken und Chancen. Identifikation unbeabsichtigter positiver	Plenary Talk
StEP-Up Best Pi	und negativer Auswirkungen ractice-Conference, Zoom, September 29.	Conference Organizers
		D
2021	Reflections on the need for transdisciplinary research and the measurement of its effectiveness	Plenary Talk
AG Impact of the Zoom, June 14.	e Alliance of Sustainable Universities in Austria,	Conference Organizers
2021	Corporate Social Empowerment (CSE) - Towards new	Plenary Talk
Challenges 2014	forms of corporate-societal collaboration for enhanced adaptive capacities and sustainable transformations in the 21st century l Conference Social Responsibility and Current - Challenges and opportunities of digitalisation for e, IRDO 2021, Maribor, Slovenia, Zoom, June 10-	Conference Organizers
11.	o, 1100 o 2021, 11111301, 010 · 01111, 20011, 0 1110 10	
2021	Transdisciplinary education & research: possibilities for cooperation	Invited Keynote Lecture
Centre for Social	Innovation, Vienna, Austria, Zoom, January 21.	Conference Organizers
2021	Why the future needs more Td research and - universities: Theories, competences, and cases	Invited Keynote Lecture
	from the field	
	nstitute for Evolution and Cognition Research uburg, Austria, January 14.	Conference Organizers
2019	Competences for Dealing Innovatively with Complex Societal Challenges: Why in Future there will be an extended need for	Opening Keynote Lecture
Universities in In	transdisciplinary Universities! Conference (DRC) 2019, 'Consolidating the Role of movation Ecosystems: Challenges & Future University Politechnica of Bucharest (UPB),	Conference Organizers

Bucharest, Romania, November 6-8.

2019 Striving towards a Circular Economy for Invited Keynote Lecture with Michael Mew, Phosphorus: The role of Phosphate Rock Mining & Ludwig Herman, and Bernhard Geissler Supply Security for Import-dependent Countries. The United Nations Economic Commission for Europe (UNECE), Conference Organizers Expert Group on Resource Management (EGRM) Tenth Session, Salle XII, Palais des Nations, Geneva, April 29-30. Transdiciplinarity as 21st Century Approach for 2019 Lecture Communication & Mass Media 17th Annual International Conference on Communication and Mass Conference Organizers Media, Athens, Greece, May 13-16. 2019 Fake News – a Society Greedy for Extremes: Have Invited Keynote Lecture we Lost our Moral? 17th Annual International Conference on Communication and Mass Conference Organizers Media, Athens, Greece, May 13-16. Most recent developments in Phosphate Rock 2018 Invited Keynote Lecture Mining: A global perspective on efficiency, circular economy, and innovation. U.S. Geological Survey (USGS), Washington D.C., U.S., December Conference Organizers 2018 Does complexity require different forms of Keynote Lecture leadership? ...or different approaches in ...everything? Multi-level knowledge synthesis & creation and transdisciplinarity as guiding principles within transformation processes (Solution Stage: Leadership Ideas Worth Spreading) Effects of divergence of explicit & implicit 2018 Keynote Lecture cognition pattern s on societal resilience (Expert Insights: Philosophical Reflections on Sustainability Narratives & Models) The 8th International Conference on Sustainability & Responsibility, Conference Organizers Cologne, Germany, November 14-16. 2018 Toward a circular P economy: The role of mining Presenter with Bernhard Geissler & The Phosphate Rock Mining - Innovation AIMS 2018 (Aachen International Mining Symposia) - First Conference Organizers International Conference 'Mines of the Future'. PPS H1 -Responsible and Sustainable Mining, Aachen, Germany, 23-24 May. State of the Art: Science - society collaboration-2017 Invited Keynote Lecture transdisciplinarity at the Danube University 4th Interdisciplinary Doctoral Kolloquium, Andrassy University Budapest, Budapest, Hungary, November 10. 2017 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, Invited Keynote Lecture Risk, & Opportunity Costs IFA Production and International Trade Conference, Paris, France, Conference Organizers February 22-24. Transdisciplinary development and management 2016 Presenter and Conference Co-Organizers of cultural spaces and innovation systems 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 Keynote Lecture with B. Geissler phosphate rock mining: past-present-future 5th Sustainable Phosphorus Summit 2016, China Agricultural Conference Organizers University of Beijng (SPS-5, 2016), Kunming, China, Aug. 16-20. 2016 Co-Creation: 1 + 1 = 3? Keynote Lecture Wissen schafft Neues, 5. Wissensmanagement-Tage Krems, Danube Conference Organizers University Krems, Krems a.d. Donau, April 19-20. Lecture and Coach 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. 2015 Industrie 4.0 als Innovationschance. Keynote Lecture Welche Kompetenzen werden in Zukunft über Erfolg oder Mißerfolg entscheiden? Best Practice Konferenz (StEPUp): Industrie 4.0 – Ein praxisbezogener Blick auf das Thema "Smart Production", Krems, Oktober 13. 2015 Durch Kreativität und Innovation in die Zukunft! Keynote Lecture Maschinenring Bundestagung, Krems an der Donau, October1. 2015 Wie Innovationssysteme funktionieren: Keynote Lecture Von der kreativen Idee zum supranationalen Innovationsprogramm Alumni-Tag: Leading through Innovation! Krems an der Donau, September 26. How to deal with complex real-world challenges? 2015 Keynote Lecture

A provocative call for new forms of higher

education

37th EAIR Forum (The European Higher Education Society -

22

Linking research, policy and practice): From here to there: Positioning Higher Education Institutions. Danube University Krems, August 28-September 2

Foerdert die derzeitge industrielle Revolution

demokratische Prozesse oder soziale Eliten?

Tagung zu den Auswirkungen des technologischen Wandels auf die Gesellschaftsordnung. Krems an der Donau Juli 11.

2015 Industrial Design als Innovationsmotor: Quo

Vadis? Herausforderungen fuer die Zukunft

Industrial Design Show 2015, Design Talk. June 27, Graz

The Future of Higher Education in the 21st

2015 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 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

Keynote Lecture

Keynote Lecture

Facilitator

AIMS 2015 (Aachen International Mining Symposia), RWTH Aachen, Germany, May 28.

2015 Competences for the Co-design and Co-creation of Invited Lecture

Knowledge for Sustainable and Resilient Societies:

a Transdisciplinary Approach

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 Moderator & Chair of working group

primary beneficiation processing:

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

Food Security and Health as Global Challenges:

Whose Responsibility?

9th International Conference Social Responsibility and Current Challenges 2014 – Health-Personal and/or Social Responsibility,

IRDO 2014, Maribor, Slovenia

Keynote Lecture with Prof. Schernhammer

Conference Organizers

Workshop Organizers

2013 Innovation as Driver of Competitiveness and

Sustainability

1st Stellenbosch Innovation District Conference (SID1), Cape Town,

South Africa

Opening Keynote Lecture

Conference Organizers

Innovation Systems as Facilitators of Just Keynote Lecture 2013 Transition: A Global Perspective. **Invited Presenter** Large-Scale Collaborative Problem Solving Using the Example of Phosphorus as a Global Case (GlobalTraPs): a Transdisciplinary Approach (Session "Globalization, Sustainability, and Innovation Policy") Learning-Session "Mutual Learning in 2013 Co-Chair, Workshop Leader Sustainable Mining" Global TraPs 1st World Conference, Learning from Cases & Conference Organizers Exploring Policy Options, Beijing, China 2013 Which Factors Influence Global Phosphorus and Invited Presenter with Dr. Weber (Waterloo Fertilizer Prices? University) 5th Conference of the Global Partnership on Nutrient Management Conference Organizers (GPNM) of the United Nations (UNEP), Beijing, China 2013 Barriers and Opportunities for Industrial **Invited Presenter** Innovation Systems in Transition: Exemplified by Old Industrial Regions Competences for Complex Real-World Problems: **Invited Presenter** Toward an Integrative Framework The Eastern Academy of Management 2013 Conference - Creativity Conference Organizers and Innovation: Designs for the Future, Baltimore, MD, USA 2013 Global History of Agrarian Labor Regimes, 1750-Commentator and Chair 2000. International Impulses and Agrarian Change. The Weatherhead Initiative on Global History (WIGH), Harvard Conference Organizers University, Cambridge, MA, USA Keynote Lecture 2013 A Competence Framework for Innovation and Sustainability: Global Food Security & Phosphorus 8th International Conference Social Responsibility and Current Conference Organizers Challenges 2013 - Education and Communication for More Sustainable, IRDO 2013, Maribor, Slovenia 2012 Challenges and Chances for Systemic Innovation **Invited Presenter** in Old Industrial Regions International Conference on Old Industrial Heritage – a new Organizers determinant of local and regional culture, Bydgozcz, Poland 2012 Symposium "Cross-Cutting Issue Node: Trade & Co-Chair Finance Global TraPs Workshop, El-Jadida, Morocco Workshop Organizers 2012 Competences for Sustainability and for Mastering Invited Lecturer with Dr. Risopoulos Conference Organizers 7th 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

2011	Youth as Driver of Innovation within Civic	Keynote Lecture		
	Change: Competencies for Mastering the Crisis	Reynote Lecture		
	Conference Social Responsibility and Current – Youth in Focus of World Changes, IRDO 2011, ia	Conference Organizers		
2010 International Co Vilnius Lithuani	Session "Sustainability Entrepreneurship" onference on Sustainability Driven Innovation, a	Chair Baltic Management Research Academy (BMRA)		
2010	A systems based competence model for today's complexity: sustainable entrepreneurial developments	Invited Presenter		
International Co (BMRA), Vilnius	nference on Sustainability Driven Innovation	Conference Organizers		
2010	A systems based competence model for today's complexity: sustainable entrepreneurial developments	Invited Presenter		
International Co Vilnius Lithuani	nference on Sustainability Driven Innovation,	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 Conference Organizers Challenges 2010 – nature and humans »human being = dangerous for nature and humans!«", IRDO 2010, Maribor, Slovenia				
	Open Creativity in a Transdisciplinary Context ing of the International Transdisciplinarity Net on Sustainable Development (ITdNet), Berlin,	Invited Presenter Meeting Organizers		
2009	Start-up Projects Fostering the Integration of "Forgotten" Parts of Society	Invited Presenter		
International Co Rishon Lezion, I	nference "Entrepreneurship without Borders",	Conference Organizers		
2009	Transdisciplinary Case Study Teaching: Physical	Presenter		
	and Virtual Networking arning Program Leonardo da Vinci "A Teaching on ule for Engineering Programs" (TO-INNOEN),	with Dr. Sindler Workshop Organizers		
2009	From Corporate Social Responsibility to Corporate Social Innovation?	Invited Presenter, with Dr. Risopoulos		
Challenges 2009	Conference "Social Responsibility and Current : Work – a Bridge to Cooperation: Relations with Different Age Generations", IRDO 2009, Maribor,	Conference Organizers		
2009	Entrepreneurship: Transdisciplinary Case-Study Teaching supported by a Moodle-Online- Learning Platform	Invited Presenter		
	an Union project "Fostering Entrepreneurship in on" (FoSentHE), Split, Croatia	Workshop Organizers		

2008 Innovation and Creativity: A Chaos Theory **Invited Presenter** Perspective 9th International Conference on Linking Systems Thinking, Conference Organizers Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia Strategies for dealing with poverty in South Invited Presenter 2008 America's agriculture: the Heissenberger case as an Austrian CSR initiative 3rd International Conference "Social Responsibility and Current Conference Organizers Challenges 2008 – Social responsibility as contribution to stakeholders' long term success in market", IRDO 2008, Maribor, Slovenia 2007 Towards Sustainability on Higher Education **Invited Presenter** Institutions International Conference on Managing in a Global Economy XII: Eastern Academy of Management Culture: Integration and Innovation, Amsterdam, Netherlands Dealing with a Complex Future: Stakeholder **Invited Presenter** 2007 communication as basis for sustainable innovations 2nd International Conference "Social Responsibility & Current Conference Organizers Challenges 2007 - Mangers' role at social responsibility development in profitable and non-profitable organizations", IRDO 2007, Maribor, Slovenia 2007 Sustainability Learning – a mutual process Invited Lecturer between science and society International Advanced Research Workshop on Higher Education Organizers and Sustainable Development (HESD), Maribor, Slovenia Transdisciplinary Case Studies at the University Invited Lecturer 2006 of Graz - What has been achieved; what will come up? ETH Zurich, Natural and Social Science Interface (NSSI) and ETH Zurich Institute for Environmental Decisions (IED), Zurich, Switzerland Innovative Performance of Organizations as a **Invited Presenter** 2006 Result of their Physical Environment 16th World Congress on Sociology: The Quality of Social Existence Congress Organizers in a Globalistic World, Durban, South Africa Innovation as a Two-sided Coin with Special **Invited Presenter** 2006 Consideration of Analogies 50th Annual Conference of the International Society for the Systems Conference Organizers Sciences (ISSS), Sonoma, CA, USA 2006 How to support the enterprise's capability to Invited Lecturer generate radical innovation: What can be learned from the U.S.'s most innovative company IDEO 8th International Conference on Linking Systems Thinking, Conference Organizers Innovation, Quality, Entrepreneurship and Environment (STIQE),

Maribor, Slovenia

Stakeholder-Management for Indigenous Invited Lecturer 2006 Innovation by Social Responsibility 1st Conference on Social Responsibility and Current Challenges, Conference Organizers Maribor, Slovenia 2006 Transdiciplinary Creation of a Shared Vision for Invited Presentation, Sustainable Development with Dr. Risopoulos Western Decision Sciences Institute Conference (WDSI), Waikaloa, Conference Organizers Hawaii, USA 2005 Innovation and Creativity from the Viewpoint of **Invited Presentation** Systems Thinking and Chaos Theory The First International World Congress of the International Conference Organizers Federation for Systems Research, JAIST, Kobe, Japan The Planetary Model as a Framework for **Invited Presentation** 2005 Organizing Innovation 6th International Conference of Sociocybernetics, International Conference Organizers Sociological Association (ISA): Sociocybernetics and Innovation, Maribor, Slovenia Communication and Social Competences in Invited Presentation, 2005 Transdisciplinary Case Studies: Graz Mobility with Drs. Risopoulos and Posch Case Study 11th Annual International Sustainable Development Research Organizers Conference, Helsinki, Finland Methodological and Didactical Aspects of Case 2004 Keynote Lecture Studies 3rd ITdNet-Meeting, Gothenburg, Sweden Organizers Transdisciplinary Creation of a Shared Vision for 2004 **Invited Presenter** Sustainable Development 7th International Conference on Linking Systems Thinking, Conference Organizers Innovation, Quality, Entrepreneurship and Environment (STIQE), Maribor, Slovenia Creative Problem Solving in Transdisciplinary **Invited Lecturer** 2004 Case Studies for Sustainable Development ENCOS 2004-1st European Networks Conference in Sustainability: Conference Organizers Communication and Management of Environmental Knowledge in Europe – Requirements on a New European Level for Capacity Building **Invited Presenter** 2002 The Role of Creative Problem Solving within Sustainable Development 54th International Atlantic Economic Conference, Washington DC, Conference Organizers **USA** Transdicsiplinary Change Processes: Urban and Workshop Organizer and 2002 Regional Experiences from Austria Presenter International Workshop on Transdisciplinarity, ETH Zurich, ETH Zurich Zurich, Switzerland Invited lecture 2002 The Erzherzog Johann Case Study -Sustainability in the Context of Innovation 3rd ITdNet-Meeting, ETH-Zurich, Zurich, Switzerland ETH Zurich

2002 Dynamic Creativity Management as a Tool for Invited lecture

Sustainability. A Constructivist Point of View

6th International Conference on Linking Systems Thinking, Conference Organizers Innovation, Quality, Entrepreneurship and Environment (STIQE),

Maribor, Slovenia

2002 Sustainable Development of a Less Developed Invited lecture

Region

ETH Zurich, Switzerland ETH Zurich

2001 Creativity Management for Business Start-Ups Keynote lecture
International CIC-Europe (Creativity and Innovation Center Conference Organizers
Europe), Seminar on Creativity & Innovation beyond all Boundaries,

Brussels, Belgium

2000 An Inter- and Transdisciplinary Evaluation Plenary presenter

Model as an Instrument for Strategic Planning
5th International Conference on Linking Systems Thinking, Conference Organizers

Innovation, Quality, Entrepreneurship and Environment, Maribor, Slovenia

1997 Models of Innovation in Regional Development Plenary talk

PODIM - Innovation and Regional Development, Maribor, Slovenia Symposium Organizers

Report of Scholarship: Publications

Books

- 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.
- 2. Kislinger, M./Von der Hellen, C./**Steiner, G.** (2011): Project Report: Systems Analysis Shared Space. Graz: University of Graz (in German).
- 3. **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).
- 4. Sustainability Task Force of the University of Graz (as member) (2006): Nachhaltigkeitsbericht der Universität Graz (according Global Reporting Initiative GRI). Graz: Universität Graz.
- 5. 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).
- 6. **Steiner, G**. (2003): Design in Österreich im Jahr 2002. Wien: Österreichische Designstiftung.
- 7. **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.

- 8. 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 Umfelderhebungen,
 Band 5 Abbildungskatalog), Joanneum Research, Graz 2000.
- 9. Katter, R./**Steiner, G.** et al. (1999): Perspektiven zur Gestaltung und Nutzung von Bergbaufolgelandschaften [German]. Graz: ÖKO.97.001-01 Joanneum Research.
- 10. 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

- Steiner, G./Laubichler, M.D./Bertau, M./Zenk., L./Weitzer, J./Han, E./Birmann, B.M./Ziganshina Lienhard, D./Caniglia, G./Schernhammer, E.S. (2024). Navigating through poly-crises towards One Health: Mirage or tangible prospect? Insights from the Transatlantic Research Lab on Complex Societal Challenges. GAIA 33(1): 202 203 [IF 2.2].
- 2. Zenk, L./Pausits, A./Brenner, B./Campbell, D.F.J./Behrens, D.A./Stöckler, E.M./Oppl, S./**Steiner, G.** (2024): Meta-competences in complex environments: An interdisciplinary perspective. Thinking Skills and Creativity (https://doi.org/10.1016/j.tsc.2024.101515) [IF 3.7].
- 3. Han, E./Weitzer, J./Birmann, B.M./Bertau, M./Zenk, L./Caniglia, G./Laubichler, M.D./Schernhammer, E.S./**Steiner, G.** (2024): Association of personality traits and socio-environmental factors with COVID-19 pandemic-related conspiratorial thinking in the D-A-CH region. *SN Social Sciences* 4(41): https://doi.org/doi:10.1007/s43545-023-00790-9 [IF 3.8].
- 4. 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].
- 5. 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 10.27].

- 6. 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].
- 7. 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].
- 8. 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].
- 9. 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].
- 10. Satalkina, L./Steiner, G. (2022): Social innovation: a retrospective perspective. *Minerva*; https://doi.org/10.1007/s11024-022-09471-y [IF 2.3].
- 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].
- 12. 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].
- 13. 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].
- 14. 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 [IF2.4].
- 15. 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].
- 16. 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].
- 17. 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].
- 18. 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].
- 19. 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.

- 20. 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].
- 21. 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].
- 22. 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:10.3390/ijerph17217884 [IF 4.6].
- 23. Höltl, A./Steiner, G./Lumetsberger, T./Weinhäupl, H./Greilhuber, I./Wrbka, T./Vadrot, A./Essl, F./Tribsch, A./ Sturmbauer, C./Gratzer, G. (2020): Ein Netzwerk für die Biodiversität in Österreich: Inter- und transdisziplinäres Netzwerk zu Biodiversität & Ökosystemleistungen. *GAIA*, Ecological Perspectives on Science and Society 29(2):126-128 [IF 1.9].
- 24. 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].
- 25. **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].
- 26. 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].
- 27. 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].
- 28. 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].
- 29. **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].
- 30. 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].
- 31. **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
- 32. 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].
- 33. 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].
- 34. **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].

- 35. 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].
- 36. 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].
- 37. 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].
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- 40. 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].
- 41. 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]
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- 44. 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].
- 45. 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].
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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 communicationand 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+ books, 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.

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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 <u>Transdisciplinary Laboratory for Sustainable Mineral Resources</u> and PI and Co-Chair of the <u>Phosphate Data and Knowledge Hub P-DaKH</u>. 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).