

**Arnim Wiek, Ph.D.**

**Professor**

School of Sustainability  
Julie Ann Wrigley Global Institute of Sustainability  
College of Global Futures  
Arizona State University  
800 South Cady Mall  
Tempe, AZ 85281, USA

E-mail: [arnim.wiek@asu.edu](mailto:arnim.wiek@asu.edu)

Phone: (480) 965-2387

**Affiliate / Honors Faculty / Fellow**

Swette Center for Sustainable Food Systems  
School for the Future of Innovation in Society  
School of Public Affairs  
School of Social Transformation  
Barrett, The Honors College  
Arizona State University

**Guest Professor**

Center for Global Sustainability and Cultural Transformation  
Leuphana University of Lüneburg, Germany

Faculty of Environment and Natural Resources  
University of Freiburg, Germany

## Education

- 10/1991–09/1998 *Master of Philosophy*. University of Bonn and Free University Berlin (Germany)
- 10/1999–03/2002 *Master of Environmental Sciences*. University of Jena (Germany) and Swiss Federal Institute of Technology (ETH Zurich)
- 04/2002–05/2005 *PhD*. ETH Zurich, Department of Environmental Sciences

## Professional Experience

- 08/2019–  
Full Professor, School of Sustainability, Arizona State University  
Affiliate faculty, Swette Center for Sustainable Food Systems  
Affiliate faculty, School for the Future of Innovation in Society  
Affiliate faculty, School of Public Affairs  
Affiliate faculty, School of Social Transformation  
Affiliate faculty, Barrett, The Honors College
- 06/2021–  
Guest Professor, Faculty of Environment and Natural Resources, University of Freiburg (Germany)
- 07/2014–  
Guest Professor, Center for Global Sustainability and Cultural Transformation, Leuphana University of Lüneburg (Germany)
- 12/2015–07/2019  
Academic Program Director for the Cooperative Master’s Degree in Global Sustainability Science, School of Sustainability, Arizona State University
- 08/2013–07/2019  
Associate Professor (tenured), School of Sustainability, Arizona State University
- 08/2015–07/2018  
Ambassador for Sustainability Efforts in Europe, School of Sustainability, Arizona State University
- 02/2018–06/2018  
Guest Professor, Copernicus Institute of Sustainable Development, Utrecht University (The Netherlands)
- 08/2008–07/2013  
Assistant Professor, School of Sustainability, Arizona State University
- 06/2009–07/2009  
Visiting Professor, Graduate Program in Sustainability Science, Graduate School of Frontier Sciences, University of Tokyo (Japan)
- 05/2007–07/2008  
Visiting Scientist, Institute for Resources, Environment and Sustainability, University of British Columbia (Canada)
- 06/2005–04/2007  
Senior Researcher and Course Instructor, Institute for Human-Environment Systems, ETH Zurich (Switzerland)

## Publications

[Google Scholar Data (April 1, 2022) – Citations: 17,061 / h-index: 56 / i10-index: 114]

### Peer-Reviewed Journal Articles

#### *Accepted / In Press*

- Birdman, J., **Wiek, A.**, & Lang, D.J. (2021, in press). Developing key competencies in sustainability through project-based learning in graduate sustainability programs. *International Journal of Sustainability in Higher Education*.
- McGreevy, S.R., Rupprecht, C., Niles, D., **Wiek, A.**, Chabay, I., et al. (2022, accepted). Sustainable food systems for a post-growth world. *Nature Sustainability*.
- Schröder, S., **Wiek, A.**, Farny, S., & Luthardt, P. (2022, accepted). Developing employees' action competence for sustainability in small and medium-sized enterprises. *Business Strategy and the Environment*.

#### *Published*

- Carvalho, B., **Wiek, A.**, Ness, B. (2022). Can B Corp certification anchor sustainability in SMEs? *Corporate Social Responsibility and Environmental Management*, vol. 29, no. 1, pp. 293-304.
- Lang, D.J., & **Wiek, A.** (2022). Structuring and advancing solution-oriented research for sustainability. *Ambio*, vol. 51, No. 1, 31–35.
- Wiek, A., & Albrecht, S. (2022). “Almost there” – on the importance of a comprehensive entrepreneurial ecosystem for developing sustainable urban food forest enterprises. *Urban Agriculture & Regional Food Systems*, vol. 7, e220025.
- Albrecht, S., & **Wiek, A.** (2021b). Implementing sustainable food forests – Extracting success factors through a cross-case comparison. *Journal of Agriculture, Food Systems, and Community Development*, vol. 11, no. 1, pp. 183-200.
- Albrecht, S., & **Wiek, A.** (2021a). Food forests – their services and sustainability. *Journal of Agriculture, Food Systems, and Community Development*, vol. 10, No. 3, pp. 91-105.
- Forrest, N., & **Wiek, A.** (2021). Growing a sustainable local grain economy in Arizona – A multi-dimensional analytical case study of an alternative food network. *Journal of Agriculture, Food Systems, and Community Development*, vol. 10, no. 2, pp. 507–528.
- Konrad, T., & **Wiek, A.**, & Barth, M. (2021). Learning to collaborate from diverse interactions in project-based sustainability courses. *Sustainability*, vol. 13, No. 9884.
- Konrad, T., **Wiek, A.**, & Barth, M. (2021). Learning processes for interpersonal competence development in project-based sustainability courses – Insights from a comparative international study. *International Journal of Sustainability in Higher Education*, vol. 22, no. 3, pp. 535-560
- Redman, A., **Wiek, A.**, & Barth, M. (2021). Current practice of assessing students' sustainability competencies – a review of tools. *Sustainability Science*, vol. 16, pp. 117-135.
- Redman, A., & **Wiek, A.** (2021). Competencies for advancing transformations towards sustainability. *Frontiers in Education*, vol. 6, 785163.

- Weber, H., & **Wiek, A.** (2021). Cooperating with 'open cards' – the role of small intermediary businesses in realizing sustainable international coffee supply. *Frontiers in Sustainable Food Systems*, vol. 5, 663716.
- Weber, H., Loschelder, D., Lang, D.J., & **Wiek, A.** (2021). Connecting consumers to producers to foster sustainable consumption in international coffee supply – A marketing intervention study. *Journal of Marketing Management*, vol. 37, no. 11-12, pp. 1148-1168.
- Weiss, M., Barth, M., **Wiek, A.**, & von Wehrden, H. (2021). Drivers and barriers of implementing sustainability curricula in higher education – assumptions and evidence. *Higher Education Studies*, vol. 11, no. 2, pp. 42-64.
- Forrest, N., Stein, Z., & **Wiek, A.** (2020). Transferability and scalability of sustainable urban water solutions – a case study from the Colorado River Basin. *Resources, Conservation, and Recycling*, vol. 157, article 104790.
- John, B., Lang, D.J., von Wehrden, H., John, R., & **Wiek, A.** (2020). Advancing decision-visualization environments – Empirically-informed design guidelines. *Futures*, vol. 123, article 102614.
- Konrad, T., **Wiek, A.**, & Barth, M. (2020). Embracing conflicts for interpersonal competence development in project-based sustainability courses. *International Journal of Sustainability in Higher Education*, vol. 21, no. 1, pp. 76-96.
- Lam, D.P.M., Martín-López, B., **Wiek, A.**, Bennett, E.M., Frantzeskaki, N., Horcea-Milcu, A.I., & Lang, D.J. (2020). Scaling the impact of sustainability initiatives – a typology of amplification processes. *Urban Transformations*, vol. 2, Article 3.
- Weber, H., Pöggel, K., Eakin, H., Fischer, D., Lang, D.J., von Wehrden, H., **Wiek, A.** (2020). What are the ingredients for food systems change towards sustainability? Insights from the literature. *Environmental Research Reviews*, vol. 15, no. 11, article 113001.
- Weber, H., **Wiek, A.**, & Lang, D.J. (2020). Sustainability entrepreneurship to address large distances in international food supply. *Business Strategy and Development*, vol. 3, no. 3, pp. 318-331.
- Forrest, N., Stein, Z., & **Wiek, A.** (2019). Water-independent residential properties as a transformational solution to achieve water sustainability in desert cities? *Journal of Cleaner Production*, vol. 214, pp. 1038-1049.
- Foucrier, T., & **Wiek, A.** (2019). A process-oriented framework of competencies for sustainability entrepreneurship. *Sustainability*, vol. 11, no. 24, 7250.
- Withycombe Keeler, L., Beaudoin, F., **Wiek, A.**, Tamm, K., Seebacher, A., Lerner, A.M., Lang, D.J., Forrest, N., John, B., & Kay, B. (2019). Building transformative capacity for implementing sustainability solutions through city-university partnerships. *Ambio*, vol. 48, no. 5, pp. 529-538.
- Caniglia, G., John, B., Bellina, L., Lang, D.J., **Wiek, A.**, Cohmer, S., & Laubichler, M. (2018). The Glocal Curriculum – A model for transnational collaboration in higher education for sustainable development. *Journal of Cleaner Production*, vol. 171, pp. 368-376.
- Fazey, I., Schöpke, N., Caniglia, G., Patterson, J., Hultman, J., van Mierlo, B., Säwe, F., **Wiek, A.**, et al. (2018). Ten essentials for action-oriented and second order energy transitions, transformations and climate change research. *Energy Research and Social Science*, vol. 40, pp. 54-70.

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- Foley, R.W., & **Wiek, A.** (2014). Scenarios of nanotechnology innovation vis-à-vis sustainability challenges. *Futures*, vol. 64, pp. 1-14.
- Forrest, N., & **Wiek, A.** (2014). Learning from success – Towards evidence-informed sustainability transitions in communities. *Environmental Innovation and Societal Transitions*, vol. 12, pp. 66–88.
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### ***Under Review***

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Burch, S., DiBella, J., **Wiek, A.**, Schaltegger, S., Stubbs, W., Farrelly, M., Ness, B., & Frantzeskaki, N. (2021, in review). Building resilience in and through SMEs. *International Small Business Journal*.

Forrest, N., & Wiek, A., & Withycombe Keeler, L. (2022, in review). Accelerating the transformation to a sustainable food economy by strengthening the sustainable entrepreneurial ecosystem. *Local Economy*.

Foucrier, T., & **Wiek, A.** (2021, in review). Assessing students' competencies in sustainability entrepreneurship through in-vivo simulated professional situations. *Journal of Management Education*.

Foucrier, T., **Wiek, A.**, & Basile, G. (2021, in review). Educating students and professionals in sustainability entrepreneurship – strengths and weaknesses of innovative course formats. *International Journal of Sustainability in Higher Education*.

### **Perspectives Articles / Commentaries / Media**

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Van der Leeuw, S., **Wiek, A.**, Harlow, J., & Buizer, J. (2012). How much time do we have? Urgency and rhetoric in sustainability science. *Sustainability Science*, vol. 7 (Supplement 1), pp. 115-120.

### **Chapters in Edited Volumes**

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- Brundiers, K., Savage, E., Mannell, S., Lang, D.J., & **Wiek, A.** (2014). Educating sustainability change agents by design – Appraisals of the transformative role of higher education. In: Fadeeva, Z., Galkute, L., Mader, C., Scott, G. (Eds.) (2014). *Sustainable Development and Quality Assurance in Higher Education – Transformation of Learning and Society*. Palgrave Macmillan: Basingstoke, pp. 196-229.
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- Redman, C.L., & **Wiek, A.** (2012). Sustainability as a transformation in education. In: Johnston, L.F. (Ed.). *Higher Education for Sustainability – Cases, Challenges, and Opportunities from Across the Curriculum*. Routledge: New York, pp. 214-222.
- Wiek, A.,** & Lang, D.J. (2012). Transdisciplinary research. In: Fogel, D., Fredericks, S., Harrington, L., & Spellerberg, I. (Eds.). *The Encyclopedia of Sustainability: Vol. 6 “Measurements, Indicators, and Research Methods for Sustainability”*. Great Barrington, MA: Berkshire Publishing. pp. 355-358.
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### Edited Volumes

- Heinrichs, H., Martens, P., Michelsen, G., & **Wiek, A.** (Eds.) (2016). *Sustainability Science – An Introduction*. Berlin, New York: Springer.
- Scholz, R.W., Stauffacher, M., Bösch, S., Krütli, P., & **Wiek, A.** (Eds.) (2007). *Decision Processes Wellenberg – Radioactive Waste Disposal in Switzerland*. Zürich: Rüegger und Pabst. [in German]
- Scholz, R.W., Stauffacher, M., Bösch, S., & **Wiek, A.** (Eds.) (2002). *The Future of Land Use in Appenzell Ausserrhoden (Switzerland)*. Zürich: Rüegger und Pabst. [in German]

### Edited Journal Issue / Editorial

- Guest Editor of the Special Feature “Sustainability Science: Bridging the Gap Between Science and Society.” *Sustainability Science*, vol. 7, Supplement 1, February 2012. Guest Editors: **Arnim Wiek**, Francesca Farioli, Kensuke Fukushi, Masaru Yarime.
- Wiek, A.**, Farioli, F., Fukushi, K., & Yarime, M. (2012). Sustainability science – Bridging the gap between science and society. *Sustainability Science*, vol. 7 (Supplement 1), pp. 1–4.

### Publication Awards

- 2017 Campus Sustainability Research Award awarded by the Association for the Advancement of Sustainability in Higher Education (AASHE) for the article: Brundiers, K., & Wiek, A. (2017). Beyond interpersonal competence – Teaching and learning professional skills in sustainability. *Education Sciences*, vol. 7, no. 1, Art. 39.
- Outstanding Paper of 2014 awarded by the journal *International Journal of Sustainability in Higher Education* for the article: Wiek, A., Xiong, A., Brundiers, K., & van der Leeuw, S. (2014). Integrating problem- and project-based learning into sustainability programs – A case study on the School of Sustainability at Arizona State University. *International Journal of Sustainability in Higher Education*, vol. 15, no. 4, pp. 431-449.
- Best Paper of 2012 awarded by the journal *Sustainability Science* for the article: Wiek, A., Ness, B., Brand, F.S., Schweizer-Ries, P., & Farioli, F. (2012). From complex systems analysis to

transformational change: A comparative appraisal of sustainability science projects.  
*Sustainability Science*, vol. 7 (Supplement 1), pp. 5-24

## Research Grants (Past 15 Years)

### Current

City of Phoenix: Worker Cooperative Sustainable Food System Business Incubator in Phoenix. Role: Fundraising support, mentoring, program evaluation. \$200,000. 09/01/2021 – 08/31/2022.

Andrea von Braun Foundation: Implementing and Scaling Sustainable Food Forest Enterprises to Overcome Economic Barriers to Healthy Food, Livelihood Opportunities, and Green Spaces. Role: Co-PI. PI: Stefanie Albrecht. €23,230. 07/01/2021 – 06/30/2022.

City of Phoenix: Employee-owned Sustainable Food Business Incubation Program for Veterans in Phoenix. Role: Fundraising support, mentoring, and program evaluation. \$50,000. 05/01/2021 – 04/30/2022.

ASU Foundation (External Donation): Development of the *Opportunities Food Forest* – A Sustainable Food Forest at *Spaces of Opportunity* in South Phoenix. Role: PI. Co-PIs: Stefanie Albrecht, John Wann-Ángeles, Darren Chapman. \$100,000. 03/15/2021 – 03/14/2022.

German Federal Ministry of Education and Research (BMBF), Social-Ecological Research Program on Urban Transformations: Local Food Systems for Integrated Municipal Sustainability Governance. Role: Collaborating International Partner. PI: Heiner Schanz, University of Freiburg. \$374,976. 01/01/2020 – 12/31/2021.

Social Sciences and Humanities Research Council (SSHRC) of Canada, Partnership Grant Program: TRANSFORM: Accelerating Sustainability Entrepreneurship Experiments at the Local Scale. Role: Co-PI. PI: Sarah Burch, University of Waterloo, Canada. Co-PIs: Niki Frantzeskaki, Erasmus University Rotterdam, The Netherlands; Daniel Lang, Leuphana University of Lüneburg, Germany; Stefan Schaltegger, Leuphana University of Lüneburg, Germany; Barry Ness, Lund University, Sweden; Kes McCormick, Lund University, Sweden. \$1,974,000. 06/01/2018 – 12/31/2024.

### Completed

Belmont Forum & the Joint Programming Initiative Urban Europe, Program “Sustainable Urbanisation Global Initiative – Food-Water-Energy Nexus (SUGI-FWE Nexus)”: Globally and Locally-Sustainable Food-Water-Energy Innovation in Urban Living Labs (GLOCULL). Role: Co-PI. PI: Ron Cörvers. Co-PIs: Joop de Kraker, Rene Kemp, Lauren Withycombe Keeler, Andreas Muhar, Barry Ness, Daniel Lang, Henrik von Wehrden, John van Breda, Mark Swilling, Thomas Schuppenlehner, et al. \$2,294,247. 04/01/2018 – 08/31/2021.

Robert Bosch Foundation, Program “Research for Sustainability”: Processes of Sustainability Transformation. Role: Co-PI. PI: Matthias Barth. Co-PIs: Daniel Fischer, Harald Heinrichs, Klaus Kümmerer, Daniel Lang, Jens Newig, Stefan Schaltegger, Jantje Halberstadt, Ulli Vilsmaier, Henrik von Wehrden. \$1,613,186. 10/01/2017 – 03/31/2021.

Swette Center for Sustainable Food Systems, Arizona State University, Program “Interdisciplinary Food Systems Research Projects”: Enabling Small Food Businesses to Adopt Food System Sustainability Practices. Role: PI. Co-PIs: Rick Hall, Natalie Morris, Ji Mi Choi. \$10,000. 08/01/2019 – 07/31/2020.

Lower Saxony Ministry of Science and Culture & Volkswagen Foundation, Program “Science for

Sustainable Development”: Educating Future Change Agents – Higher Education as a Motor of the Sustainability Transformation. Role: Lead Co-PI. PI: Matthias Barth, Co-PIs: Daniel Lang, Jantje Halberstadt. \$1,400,000. 01/01/2016 – 09/30/2020.

Global Consortium for Sustainability Outcomes: Transferring and Scaling Sustainable Local Food Economy Solutions. Role: PI. Co-PIs: Yuk Wah Chan, Megan Horst, Stefan Schaltegger. \$70,000. 07/01/2018 – 06/30/2019.

Lower Saxony Ministry of Science and Culture & Volkswagen Foundation, Program “Top-level Research in Lower Saxony – Program to Support Applications for the New Excellence Initiative Launched by the Federal Government”: Bridging the Great Divide in Sustainability Science: Linking High-Performance Modeling and Transition Experiments to Foster Transformational Change Towards Sustainability. Role: Co-PI. PI: Daniel Lang, Co-PIs: Henrik von Wehrden, Manfred Laubichler, Klaus Kümmerer. \$1,113,000. 06/01/2016 – 04/01/2019.

Global Consortium for Sustainability Outcomes: CapaCities: Building Sustainability Implementation Capacity in City Staff and Leadership. Role: Co-PI. Co-PIs: Fletcher Beaudoin, Lauren Withycombe Keeler. \$125,000. 03/15/2017 – 03/14/2018.

Global Consortium for Sustainability Outcomes: Sustainability Education: Continuing Professional Development for School Teachers and Faculty. Role: Co-PI. PI: Matthias Barth. \$125,000. 03/15/2017 – 03/14/2018.

NSF DMUU: Decision Center for a Desert City (DCDC) III – Transformational Solutions for Urban Water Sustainability Transitions. Role: Senior Personnel and Team Co-Leader (together with Dave White) – Evidence-Supported Transition Strategies. PI: Dave White. Co-PI’s: Kelli L. Larson, Michael Hanemann, Enrique Vivoni, Amber Wutich. \$4,500,000. 09/01/2015 – 07/31/2017.

NSF National Socio-Environmental Synthesis Center (SESYNC), University of Maryland: The Development of Co-Creative Capacity for Addressing Socio-Environmental Problems and Beyond. Role: Collaborator. PI: Allison Metz. 09/01/2015 – 08/30/2017.

NSF NSEC: Center for Nanotechnology in Society (CNS) II. Role: Senior Personnel and Team Co-Leader (together with Sander van der Leeuw) – Nanotechnology in Urban Design, Materials, and Built Infrastructure. PI: Dave Guston. \$9,082,819. 10/01/2010 – 09/30/2015.

NSF DMUU: Decision Center for a Desert City (DCDC) II – Urban Climate Adaptation. Role: Senior Personnel and Team Co-Leader (together with Dave White) – Boundary Studies. PI: Patricia Gober. Co-PI’s: Charles Redman, Margaret Nelson, Craig Kirkwood, Dave White. \$7,499,996. 09/15/2010 – 08/30/2015.

Mercator Foundation: Global Classroom – International Liberal Arts and Sustainability Education for the 21<sup>st</sup> Century. Role: Senior Personnel and Team Co-Leader (together with Daniel Lang) – International Sustainability Education. PI: Manfred Laubichler. Co-PI: Daniel Lang. \$862,532 [€685,400]. 01/01/2013 – 09/30/2015.

U.S. Department of Housing and Urban Development (HUD): Reinvent Phoenix – Cultivating Equity, Engagement, Economic Development and Design Excellence with Transit-Oriented Development. Role: PI. Co-PI: Aaron Golub. \$587,077 (ASU subcontract; overall volume secured in collaboration with the City of Phoenix: \$2,935,634). 05/01/2012 – 12/31/2014.

European Regional Development Fund / Leuphana Innovation Incubator: “One Lüneburg – Transdisciplinary Research in Support of Developing a Sustainable Neighborhood in



Lüneburg.” Role: Co-PI. PI: Daniel Lang (Leuphana University of Lüneburg, Germany). \$234,888 [€186,544]. 11/01/2012 – 10/30/2014.

ASU-GIOS Seed Grant: Comparative and Quasi-Experimental Research on Public Participation within a Transformative Sustainability Science Paradigm. Role: Co-PI. PI: Aaron Golub. Other Co-PI’s: Steven Hooker, Daniel Schugurensky. \$21,924. 07/01/2012 – 06/30/2014.

NSF DRMS: Doctoral Dissertation Research in DRMS: From Analyzing to Anticipating Water Conflicts in High-Risk Dry Tropical Water Systems. Role: PI. Co-PI: Christopher Kuzdas. \$6,429. 08/01/2012 – 07/31/2013.

NSF LTER: Central Arizona Phoenix (CAP) – Long-term Ecological Research III. Role: Senior Personnel and Team Leader – Synthesis and Future Scenarios. PI: Nancy Grimm. Co-PI’s: Christopher Boone, Dan Childers, Sharon Harlan, Charles Redman, Billie Turner. \$5,640,000. 12/01/2010 – 06/30/2013.

NSF OISE: Catalyzing New International Collaborations – Interdisciplinary Workgroup on Water Sustainability in the Tempisque Basin, Costa Rica. Role: Senior Personnel and Team Leader – Institutions and Governance. PI: Rafael Munoz-Carpena. Co-PI’s: Peter Waylen, Wendy Graham, Gregory Kiker, Ray Huffaker. \$30,246. 10/01/2011 – 08/31/2012.

Mountain Park Health Center (MPHC), Phoenix: Participatory Research for Innovative Public Health Provision. Role: PI. \$23,641. 04/15/2012 – 07/15/2012.

USAID / Higher Education for Development: Managing Biodiversity under Climate Change – Enhancing Capacities in Mexico for Conservation Planning, Decision-Making and Sustainability Assessment. Role: Co-PI. PI: Charles Redman. Other Co-PI’s: Hallie Eakin, Luis Bojorquez-Tapia. \$325,789. 01/25/2010 – 06/30/2012.

Social Science and Humanities Research Council of Canada: Measuring the Societal Effects of Participatory Sustainability Research. Role: Co-PI. PI: John Robinson. Other Co-PI: Sonia Talwar. \$25,000. 2008-2009.

Swiss NSF International Fellowship for Advanced Researchers: The Co-Production of Knowledge in Transdisciplinary Collaborations Between Science and Society as a Contribution to Sustainability Science (University of British Columbia, Canada). Role: PI. \$133,400. 2007-2009.

### **Organized Conferences, Symposia, Conference Sessions, Workshops**

- Wiek, A., Gascón, L., Lindenmeier, J., Reinecke, S., Späth, P., et al. (2021). Trinational EUCOR Workshop on Sustainable Food Transitions in the Upper-Rhine Region. Online. December 2, 2021.
- Wiek, A., Pregernig, M., Kleinschmitt, D. (2021). Ideas for Signature Sustainability Projects at the University of Freiburg. Online. March 8, 2021.
- Wiek, A., Brundiers K. (2018). How to Conduct Impactful Transdisciplinary Problem-Solving Research. Utrecht University, Utrecht, The Netherlands. April 18, 2018.
- Wiek, A., Forrest, N., et al. (2017). Building Implementation Capacity for a Sustainable Local Food Economy in Tempe, Arizona, through a Mobile Solution Theater. Tempe, AZ. November 15, 2017.
- Wiek, A., & Basile, G. (2017). Business *not* as usual – Models for Transformational Sustainability. Arizona State University, Thunderbird School of Global Management. Glendale, AZ. November 3, 2017.
- Withycombe Keeler, L., Kay, B., Wiek, A., et al. (2017). *AudaCity* – Capacity Building for Urban Sustainability and Resilience. In collaboration with the City of Tempe. Tempe, AZ. August 30, 2017.
- Schäpke, N., Luederitz, C., Wiek, A., & Lang, D.J. (2017). Dialogue Sessions on “Evaluation of Sustainability Transition Experiments”. International Sustainability Transition Conference. Gothenburg, Sweden. June 19-20, 2017.
- Wiek, A., Redman, A., Brundiers, K. (2017). Training Workshop for Faculty from the Kwame Nkrumah University of Science and Technology (KNUST): Competencies-based Sustainability Education in Business and Engineering Programs. Arizona State University, Tempe, AZ. January 12, 2017.
- Withycombe Keeler, L., Lang, D.J., Wiek, A., Martens, P. (2015). 2015 Annual Meeting and Workshop on “City-Region Sustainable Transition Labs” of the International Network of Programs in Sustainability (NEPS). Leuphana University of Lüneburg, Germany. March 23-24, 2015.
- Wiek, A., Withycombe Keeler, L. (2014). Faculty Training Workshop: Sustainability Competencies for the Next Generation of Professionals. Tech de Monterrey, Mexico City. January 9-10, 2014.
- Wiek, A. & Foley, R. (2014). Sustainable and Responsible Innovation of Nanotechnology. CNS Winter School 2014. Mesa, AZ. January 6-7, 2014.
- Reiter, P., Dahl-Tacconi, N., Wiek, A. (2013). International Workshop: Evaluation Framework for Sustainability Solutions Initiatives. Walton Sustainability Solutions Initiatives. Arizona State University, Tempe. April 22-23, 2013.
- Wiek, A. (2012). International Workshop: How to Design and Deliver Problem-Based Learning Courses in Sustainability Programs. Sustainability Science Program, Institute of Ecology, Universidad Nacional Autónoma de México (UNAM), Mexico City. April 12, 2012.
- Sheppard, S., Schroth, O.G., Muir-Owen, S., Robinson, J., & Wiek, A. (2012). Conference Session: Beyond Climate Models – Rethinking How to Envision the Future with Climate Change. Annual Meeting of the American Association for the Advancement of Science (AAAS). Vancouver, BC. February 17, 2012.

- Wiek, A., van der Leeuw, S., Melnick, R., & Harlow, J. (2012). Conference Organization: 3<sup>rd</sup> International Conference on Sustainability Science (ICSS). Arizona State University, Tempe. February 20-23, 2012.
- Wiek, A. (2012). Conference Session: Studying and Researching in International Sustainability Programs. 3<sup>rd</sup> International Conference on Sustainability Science (ICSS). Arizona State University, Tempe. February 21, 2012.
- Yarime, M., & Wiek, A. (2012). Conference Session: Ph.D. Thesis Research in Sustainability Science. 3<sup>rd</sup> International Conference on Sustainability Science (ICSS). Arizona State University, Tempe. February 20, 2012.
- Wiek, A., & Foley, R. (2011). Workshop (Walking Audit): Pathways for Nanoscale Science and Engineering to Address Urban Sustainability Challenges. Study of Nanoscience and Emerging Technologies (S.NET) Conference 2011. Arizona State University, Tempe. November 8, 2011.
- Driessen, P., & Wiek, A. (2011) Conference Session: Coherent Land-Use Planning. 17<sup>th</sup> Annual Sustainable Development Research Conference. Columbia University, New York. May 9, 2011.
- Wiek, A. (2011). International Workshop: Problem-based Learning in Sustainability Programs. Arizona State University, Tempe. February 22-23, 2011.
- Lang, D.J., Schneidewind, U., & Wiek, A. (2010). Conference Session: Sustainability Science and Transdisciplinarity. 11<sup>th</sup> Biennial Conference of the International Society for Ecological Economics. Oldenburg and Bremen, Germany. August 22-25, 2010.
- Wiek, A., & Farioli, F. (2010). Conference Session: From Complex Systems Thinking to Transformational Change: Epistemological and Methodological Challenges in Sustainability Science. 2<sup>nd</sup> International Conference on Sustainability Science (ICSS). Sapienza University Rome, Italy. June 23, 2010.
- Yarime, M., & Wiek, A. (2010). Conference Session: Ph.D. Seminar on Sustainability Science. 2<sup>nd</sup> International Conference on Sustainability Science (ICSS). Sapienza University Rome, Italy. June 25, 2010.
- Wiek, A., & Brundiers, K. (2010). Conference Session: Sustainability Science – Transformative Research Beyond Scenario Studies. Annual Meeting of the American Association for the Advancement of Science (AAAS). San Diego, CA. February 20, 2010.
- Wiek, A., & Christensen, V. (2010). Conference Session: Bridging Science and Society for Sustainability – The Role of Visualization. Annual Meeting of the American Association for the Advancement of Science (AAAS). San Diego, CA. February 19, 2010.
- Wiek, A., & Fuller, A. (2010). International Workshop: Core Competencies in Sustainability. Forum for Sustainability Science Programs. Annual Meeting of the American Association for the Advancement of Science (AAAS). San Diego, CA. February 18, 2010.
- Selin, C., & Wiek, A. (2009). International Workshop: Plausibility of Future Scenarios. Arizona State University, Tempe. November 19-20, 2009.
- Kapuscinski, A., Wiek, A., & Mercer-Taylor, B. (2009). Workshop: Defining Core Competencies in Sustainability. The 8<sup>th</sup> Ball State University/AASHE Greening of the Campus Conference. Indianapolis, Indiana. September 21, 2009.

- Wiek, A., & van der Sluijs, J. (2009). Conference Session: Sustainability Science – Bridging the Gap Between Analytical and Normative Knowledge. 15<sup>th</sup> International Sustainable Development Research Conference. Utrecht University, The Netherlands. July 5-8, 2009.
- Wiek, A. (2008). Conference Session: Collaborative Research for Sustainable Development. 2<sup>nd</sup> International Sustainability Conference. Basel, Switzerland. August 21-22, 2008.
- Lang, D., & Wiek, A. (2007). Conference Session: Prospective Assessment for Life Cycle Management. 3<sup>rd</sup> International Conference on Life Cycle Management. Zurich, Switzerland. August 27-29, 2007.
- Wiek, A., Walter, A., & Lang, D. (2006). Conference Session: Methodological Issues of Sustainable Development Research. 12<sup>th</sup> International Sustainable Development Research Conference. Hong Kong, China. April 8, 2006.
- Walter, A., Lang, D., & Wiek, A. (2006). Conference Session: Transdisciplinary Research for Sustainable Development. 12<sup>th</sup> International Sustainable Development Research Conference. Hong Kong, China. April 7, 2006.
- Lang, D., Wiek, A., & Walter, A. (2006). Conference Session: Systemic and Integrated Sustainability Assessment. 12<sup>th</sup> International Sustainable Development Research Conference. Hong Kong, China. April 6, 2006.
- Wiek, A., Lang, D., Walter, A., Spoerri, A. & Scholz, R.W. (2005). Symposium: Transdisciplinary Research for Sustainable Development. 11<sup>th</sup> International Sustainable Development Research Conference. Helsinki, Finland. June 6-8, 2005.
- Wiek, A., & Lang, D. (2004). Professional Workshop: Intuitively and Formally Constructing Scenarios for the Spatial Development of Switzerland 2005-2030. Swiss Federal Office for Spatial Development. May 17-18, 2004.
- Wiek, A. (2002). Professional Workshop: Scenario Analysis for the Region Centovalli – Verbano – Locarnese (Switzerland/Italy). European Regional Development Fund, Interreg II Project. Dionea S.A. Locarno. April 14-16, 2002.

### Selected Presentations

- Albrecht, S. & Wiek, A. (2021). Food Forests as Solutions for the Sustainable Food Economy. Environmental Protection Agency of Germany. Online. June 10, 2021.
- Weber, H. & Wiek, A. (2021). Cooperating with 'Open Cards' – The Role of Small Intermediary Businesses in Realizing Sustainable International Coffee Supply. 7<sup>th</sup> International Degrowth & 16<sup>th</sup> International Society for Ecological Economics Joint Conference. Online. July 5-8, 2021.
- Wiek, A. (2021). The Cooperative Business Model for Sustainable Production and Consumption. Sustainable Consumption Research and Action Initiative (SCORAI) Webinar. December 13, 2021.
- Wiek, A. (2021). Sustainable Systems Engineering for the Local Food Economy. Sustainability Talks Series, Institute for Sustainable Technical Systems, University of Freiburg. December 9, 2021.
- Wiek, A. (2021). Overcoming the Problem Bias – Researching and Learning Sustainable Food Economy Solutions. RIHN International Symposium: Transitioning Cultures of Everyday Food Consumption and Production – Stories from a Post-Growth Future. Online. January 13, 2021
- Wiek, A. & Gascón, L. (2021). Sustainable Food System Governance in the Upper-Rhine Region. University of Freiburg. Trinational EUCOR Workshop on Sustainable Food Transitions in the Upper-Rhine Region. Online. December 2, 2021.
- Wiek, A. (2020). Educating for a Sustainable Bio-Economy – Going beyond Education-As-Usual. Global Bioeconomy Summit 2020. Online. November 18, 2020.
- Wiek, A. (2020). Advancing Sustainability Research across the University – Learning from Pioneers. University of Freiburg. November 16, 2020.
- Wiek, A. (2019). The Quiet Sustainability Transformation Benefit Corporations, Worker Cooperatives, and Local Living Economies. Conference on Innovation, Management, Entrepreneurship, and Sustainability. University of Economics, Prague, Czech Republic. May 30-31, 2019.
- Wiek, A. (2019). What does sustainability science offer in these times of crisis? A Plea for Transforming Academia. Towards Sustainable Development. University of the Philippines Visayas, Iloilo City, Philippines. February 26-27, 2019.
- Weber, H., Wiek, A., & Lang, D.J. (2019). Overcoming Distance in Sustainable International Food Supply – A Typology. Leverage Points Conference. Lüneburg, Germany. February 5, 2019.
- Wiek, A. (2018). Scaling Sustainability Solutions. Annual Meeting of the Global Consortium for Sustainability Outcomes (GCSO) 2018. Washington, DC, February 21, 2018.
- Wiek, A. (2018). What does “rigor meets relevance” mean? And how can we do it? Pathways to Sustainability Conference. Utrecht University, Utrecht, The Netherlands. February 9, 2018.
- Brundiers, K., Wiek, A. (2017). Professional Skills in Sustainability. AASHE Conference 2017, San Antonio, TX. October 15, 2017.
- Lang, D.J. & Wiek, A. (2017). Bridging Divides in Sustainability Science. Science Day “Pathways Towards Sustainability Transformations”. Helsinki University Centre for Environment, Finland. May 11-12, 2017.

- Wiek, A. (2016). Sustainability Challenges, Solutions, and Outcomes – A Conceptual Framework. Inaugural Meeting of the Global Consortium for Sustainability Outcomes (GCSO). Arizona State University. Tempe, AZ. October 25, 2016.
- Wiek, A. (2016). Large-Scale Participatory Visioning for Sustainable Urban Development – Challenges and Coping Strategies. Beatrice and Arthur Minden Symposium on the Environment. International Workshop. University of Toronto, Toronto, Canada. October 12, 2016.
- Wiek, A. (2016). Methods for Transformational Sustainability Research. International Workshop on “Transformation Research – Goals, Contents, Methods” Berlin, Germany. June 14, 2016.
- Wiek, A. (2016). International Education on Sustainability – A Systematic Overview. Conference on Sustainability and International Education. Earth University, Guanacaste, Costa Rica. March 3, 2016.
- Wiek, A. (2016). Key Competencies in Sustainability Enabling Transformational Change. NCSE 2016 Conference. Sustainability Education at the Food-Energy-Water Nexus. Washington DC. January 21, 2016.
- Wiek, A., White, D., & Schoon, M. (2015). Transformational Solutions for Water Sustainability – Combining Transition Experiments with Modeling. Transformations 2015, Stockholm, Sweden. October 5, 2015.
- Lang, D.J., Luederitz, C., Schöpke, N., Wiek, A. (2015). Evaluating Sustainability Transition Laboratories – Conceptual Consideration and First Empirical Insights for Developing a Generic Evaluation Scheme. INOGOV Workshop on "Climate Change Policy and Governance: Initiation, Experimentation, Evaluation". Helsinki, Finland. March 12-13, 2015.
- Wiek, A. (2014). How Research Can Help to Develop Sustainable Solutions for Water Problems. Resilience Development Initiative. Bandung, Indonesia. December 15, 2014.
- Wiek, A. (2014). Making Progress on Conveying Competencies in Sustainability at Swiss Universities. SAGUF Annual Meeting 2014 – Sustainability Competencies in Higher Education in Switzerland. University of Zurich, Switzerland, November 26, 2014.
- Lang, D.J., & Wiek, A. (2014). The Maturing of Urban Transition Labs – Experiences from Lüneburg and Phoenix. Symposium on “City and Region – Living Laboratories for Resiliency-oriented Transformations”. University of Kassel, Germany, July 10, 2014.
- White, D.D., Withycombe Keeler, L., Wiek, A., Larson, K.L., Sampson, D.A., & Quay, R. (2014). Linking Stakeholder Engagement, Scenario Analysis, and Simulation Modeling to Explore the Long-term Impacts of Regional Water Governance Regimes. Environmental Science Division of Argonne National Laboratory, Lemont, IL, May 19, 2014.
- Brundiers, K., Wiek, A. (2014). Moving Forward on Sustainability Curricula. Arizona Higher Education Sustainability Conference. Tucson, Arizona. March 25, 2014.
- Wiek, A. (2013). Breaking Path Dependence – Education in Transformational Sustainability Science. UNU/IR3S/UNESCO Joint Symposium on “Sustainability Science: Promoting Integration and Cooperation”. Paris, France. September 19, 2013.
- Wiek, A. (2013). Who is out there? Harnessing Converging Paradigms for Transformational Implementation Science. 1st Global Conference on Research Integration and Implementation. Canberra, Australia / Online. September 8-11, 2013.

- Wiek, A., Withycombe Keeler, L. White, D.D. (2013). The Role of Research in Developing and Implementing Transformational Solutions for Water Sustainability. Workshop “Transformational Solutions for Water in the West”. Sandia National Laboratories, Albuquerque, New Mexico. September 5, 2013.
- Wiek, A., Forrest, N. (2013). Solution-oriented Transition Research in Small-scale Communities. 4<sup>th</sup> International Conference on Sustainability Transitions. ETH Zurich, Switzerland. June 20, 2013.
- Wiek, A. (2013). Sustainability Science in the Age of Urgency. Annual Meeting of the Council of Scientific Society Presidents (CSSP), Session on “Enabling Breakthroughs in Sustainability Science”. Washington, DC. April 30, 2013.
- Wiek, A. (2013). Effective Approaches for Assembling and Managing Transdisciplinary Teams of Faculty, Students, and Stakeholders. Annual Meeting of the Council of Scientific Society Presidents (CSSP), Session on “Transdisciplinary Research and Education”. Washington, DC. April 30, 2013.
- Wiek, A. (2012). Sustainability Challenges and the Ambivalent Impacts of the Financial Sector. International Workshop “The Financial Sector’s Impact on Sustainable Development”. University of Waterloo, Canada. October 4-5, 2012.
- Kirst, E., Lang, D.J., Heinrichs, H., Wiek, A. (2012). Contributions of Municipal Administrations to Systemic Sustainability Assessments. International Sustainability Conference, University of Basel, Switzerland. August 29-31, 2012.
- Wiek, A. (2012). Sustainability Science – The Tale of Two Sciences [Keynote]. Leuphana Sustainability Summit. Leuphana University of Lüneburg, Germany. February 29, 2012.
- Broomall, B., Xiong, A., Mandrell, N., Kay, B., & Wiek, A. (2012). Fostering Partnerships for a Healthy Downtown Phoenix. Building Healthy Lifestyles Conference. Arizona State University, Tempe. February 18, 2012.
- Wiek, A., & Fisher, E. (2011). STIR City – From the Lab into the City. Study of Nanoscience and Emerging Technologies (S.NET) Conference 2011. Arizona State University, Tempe. November 8, 2011.
- Wiek, A., & Foley, R. (2011). Nanotechnology for Sustainability? Analyzing Demand for and Supply of Nanotechnologies in City Environments. Study of Nanoscience and Emerging Technologies (S.NET) Conference 2011. Arizona State University, Tempe. November 8, 2011.
- Wiek, A. (2011). Effective Stakeholder Engagement in Transformational Sustainability Efforts. Symposium “Accelerating Sustainability.” Center for Interactive Research on Sustainability, University of British Columbia. November 4, 2011.
- Brundiers, K., & Wiek, A. (2011). Do We Teach What We Preach? Evaluating Transdisciplinary, Problem-Based Learning Projects in Sustainability Programs. 3<sup>rd</sup> International Transdisciplinary Network (Td Net) Conference. Bern, Switzerland. September 14-16, 2011.
- Wiek, A., Withycombe, L., & Kay, B. (2011). Sustainability Transition Research in a City of the ‘American Way of Life’. 2<sup>nd</sup> International Conference on Sustainability Transitions (IST2011). Lund University, Lund, Sweden. June 14, 2011.
- Berkhout, T., & Wiek, A. (2011). Assessing the Capacity to Steer Transformational Change: Transforming How Energy is Used in British Columbia’s Built Environment. 2<sup>nd</sup> International

- Conference on Sustainability Transitions (IST2011). Lund University, Lund, Sweden. June 14, 2011.
- Lang, D.J., & Wiek, A. (2011). Transdisciplinary Sustainability Research – Promise and Impact. 17<sup>th</sup> International Sustainable Development Research Conference. Columbia University, New York. May 8–10, 2011.
- Wiek, A. (2011). New Degree Programs in Sustainability – Challenges and Opportunities [Keynote]. Symposium Sustainability. University of Oklahoma. February 18, 2011.
- Wiek, A., Johnson, C., Kay, B., & Zonn, J. (2010). Transition Strategies for Urban Sustainability. American Planning Association APA, Chapter Arizona, State Planning Conference. Phoenix, AZ. November 3-5, 2010.
- Guston, D., & Wiek, A. (2010). The Nano-enhanced City: Sustainability Challenges and Anticipatory Governance. Conference of the Society for the Study of Nanoscience and Emerging Technologies (S.NET) 2010. Darmstadt, Germany. September 29 – October 2, 2010.
- Wiek, A. (2010). What are the Key Competencies in Sustainability? 2<sup>nd</sup> International Conference on Sustainability Science (ICSS). Sapienza University Rome, Italy. June 24, 2010.
- Wiek, A. (2010). Sustainability Science in a Transformative Mode. NSF Workshop on “Sustainability Science, Synthetic Biology and Science and Technology Studies (STS).” Washington, DC. May 10-11, 2010.
- Wiek, A. (2010). From Analyzing to Transforming Human-Environment Systems in Transdisciplinary Sustainability Research and Teaching. Symposium “Perspectives of Research on Human-Environment Systems.” ETH Zurich, Switzerland. April 23, 2010.
- Wiek, A., & Kutter, R. (2010). A Comparative Evaluation of Participatory Scenario Studies. Annual Meeting of the American Association for the Advancement of Science (AAAS). San Diego, CA. February 20, 2010.
- Wiek, A., & Withycombe, L. (2010). Core competencies in sustainability – A Literature Review. Annual Meeting of the American Association for the Advancement of Science (AAAS). San Diego, CA. February 20, 2010.
- Wiek, A., & Maricle, G. (2009). Congruence Between Theoretical and Empirical Contributions in Sustainability Science. Annual Meeting of the Society for Social Studies of Science. Washington, DC. October 28-31, 2009.
- Wiek, A. (2009). From Analyzing to Forming Agent Networks for Sustainability. Center for Complex Networks and Systems Research. Indiana University, Bloomington, Indiana. September 22, 2009.
- Berkhout, T., Wiek, A., & Robinson, J. (2009). Regime Steering in a Long-Term Electricity Transition Toward Sustainability: The Dilemma of Seeking Visionary Goals with Operational Rules. 1<sup>st</sup> International Conference on Sustainability Transitions. Amsterdam, the Netherlands. June 4-6, 2009.
- Wiek, A., & Iwaniec, D. (2009). Theory, Empirical Research, and Teaching in Sustainability Science – Challenges, Gaps, and Future Trajectories. Graduate School of Frontier Sciences, University of Tokyo, Tokyo, Japan. June 26, 2009.



- Wiek, A. (2009). The Challenges of Sustainability Science – Congruence, Institutions, and Education. Research Institute for Sustainability Science (RISS), Osaka University, Osaka, Japan. June 29, 2009.
- Wiek, A., van der Leeuw, S. (2009). Transformative Governance for Global Change. 7<sup>th</sup> Open Meeting of the International Human Dimensions Programme on Global Environmental Change (IHDP). Bonn, Germany. April 27-30, 2009.
- Wiek, A., Talwar, S., O’Shea, M., Robinson, J. (2009). Societal Effects of Sustainability Research. 7<sup>th</sup> Open Meeting of the International Human Dimensions Programme on Global Environmental Change (IHDP). Bonn, Germany. April 27-30, 2009.
- Wiek, A. (2009). New Teaching Requirements in Sustainability Science. Panelist at the 2009 Forum for Sustainability Science Programs. Annual Meeting of the American Association for the Advancement of Science (AAAS). Chicago, IL. February 12-16, 2009.
- Wiek, A. (2009). Sustainability Science – Eclectic Add-on vs. Genuine Academic Field. 1<sup>st</sup> International Conference on Sustainability Science (ICSS). Tokyo, Japan. February 5-7, 2009.
- Wiek, A. (2008). Sustainability Science – Challenges and International Responses. 5<sup>th</sup> BMBF Forum for Sustainability. Berlin, Germany. September 25, 2008.
- Wiek, A. (2008). Sustainability Science – Still in its Infancy or Already Mature? [Keynote]. 14<sup>th</sup> International Sustainable Development Research Conference. New Delhi, India. September 21-23, 2008.
- Wiek, A., van de Kerkhof, M., & Cuppen, E. (2008). Functions of Participation in Earth System Governance. 2008 Berlin Conference on the Human Dimensions of Global Environmental Change. Berlin, Germany. February 22-23, 2008.
- Brundiers, K., & Wiek, A. (2007). Competence Platforms for Transdisciplinary Learning and Research. 3<sup>rd</sup> International Conference on Living Knowledge. Paris, France. August 30 - September 1, 2007.
- Lang, D.J., & Wiek, A. (2007). Assessing Human-Environment Systems With Respect to Sustainable Development. International Society of Industrial Ecology Conference. Toronto, Canada. June 17-20, 2007.
- Wiek, A., & Lang, D.J. (2007). Indicator-Based Qualitative System Analysis and Sustainability Assessment. Final Seminar of the INSURE Project (EU 6<sup>th</sup> RFP). Milan, Italy. January 16, 2007.
- Wiek, A. & Siegrist, M. (2006). Future Risk Perception of Emerging Technologies – The Case of Nanotechnology. 2<sup>nd</sup> European Futurists Conference Lucerne. Lucerne, Switzerland. November 22-24, 2006.
- Wiek, A. & Brundiers, K. (2006). Guidelines for Sustainable Post-Tsunami Housing Reconstruction Based on Community-Centered Transdisciplinary Integrated Planning. International Disaster Reduction Conference. Davos, Switzerland. August 27 - September 1, 2006.
- Lang, D., & Wiek, A. (2006). How to Sustainably Optimize a System? – A Methodological Comparison. Gordon Research Conference in Industrial Ecology. Oxford, United Kingdom. August 6-11, 2006.
- Wiek, A., & Scholz, R.W. (2005). Applying Principles of Systems Theory in Scenario Planning [Keynote]. 1<sup>st</sup> European Futurists Conference. Lucerne, Switzerland. July 10-12, 2005.

- Wiek, A. (2004). Evaluating Programs for Sustainable Development of European City-Regions – The Case of Basel, Switzerland. 10<sup>th</sup> International Sustainable Development Research Conference. Manchester, UK. March 29-30, 2004.
- Wiek, A. (2004). Transdisciplinary Research on Urban Mobility and Regional Development. Institute of Geography, University of Basel, Switzerland. February 13, 2004.
- Binder, C., & Wiek, A. (2003). Formative Scenario Analysis for Strategic Regional Planning in Developing Countries. Centre for Development and Environment (CDE), University of Berne, Switzerland. April 16, 2003.

## Teaching

### Graduate and Undergraduate Courses<sup>1</sup>

2022 Spring

- [on sabbatical]

2021 Fall

- [on sabbatical]

2021 Spring

- [full teaching load completed in Fall 2020]

2020 Fall

- SOS 511: Advanced Sustainability Problem Solving (3CP). 38 Students [= including all incoming graduate students of the MSUS program]
- SOS 548: Transformational Sustainability Entrepreneurship (3CP). 13 Students
- SOS 594/GSS 558: Sustainable Food Economy / Global Sustainability Research (3CP). 10 Students (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)

2020 Spring

- SOS 498/594: Sustainable Food Economy (3CP). 16 Students

2019 Fall

- SOS 511: Advanced Sustainability Problem Solving (3CP). 19 Students [= including all incoming graduate students of the MSUS program]
- SOS 548: Transformational Sustainability Entrepreneurship (3CP). 14 Students

2019 Spring

- SOS 594: Transformational Sustainability Entrepreneurship Lab (3CP). 10 Students
- SOS 498/594: Sustainable Food Economy (3CP). 10 Students

2018 Fall

- SOS 511: Advanced Sustainability Problem Solving (3CP). 21 Students [= including all incoming graduate students of the MSUS program]
- SOS/GSS 598: Global Sustainability Research (3CP). 3 Students (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)
- SOS 598: Transformational Sustainability Entrepreneurship (3CP). 20 Students

2018 Summer (April –June)

- SOS/GSS 598: Global Sustainability Research (3CP). 11 Students (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)

2018 Spring

- SOS 594: Sustainable Food Economy: Co-operatives (3CP). 3 Students

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<sup>1</sup> The listed courses were taught in the Sustainability Programs at Arizona State University, if not specified otherwise.

2017 Fall

- SOS 511: Advanced Sustainability Problem Solving (3CP). 30 Students [= including all incoming graduate students of the MSUS program]
- SOS/GSS 598: Global Sustainability Research (3CP). 12 Students (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)
- SOS 598: Transformational Sustainability Entrepreneurship (3CP). 12 Students
- SOS/GSS 598: GSS Perspectives Seminar. 12 Students

2017 Spring [International Ambassador Assignment in Europe]

2016 Fall

- SOS 511: Advanced Sustainability Problem Solving (3CP). 16 Students [= all incoming graduate students of the MSUS program]
- SOS 320: Society and Sustainability (3CP). 24 Students
- SOS/GSS 598: Global Sustainability Research (3CP). 18 Student (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)
- SOS 598: Transformational Sustainability Entrepreneurship (3CP). 10 Students
- SOS 598: GSS Perspectives Seminar. 10 Students

2016 Spring

- SOS 511: Advanced Sustainability Problem Solving (3CP). 29 Students
- SOS 320: Society and Sustainability (3CP). 28 Students
- SOS/GSS: Global Sustainability Research (3CP). 5 Student (GSS cooperative degree master program in collaboration with Leuphana University of Lüneburg)

2015 Fall [International Ambassador Assignment in Europe]

2015 Spring [Sabbatical]

2014 Fall [Sabbatical]

2014 Summer (May)

- SOS 494/598: Study Abroad Program on Sustainable Mobility Solutions in the Netherlands (3CP). 22 Students

2014 Spring

- SOS 511: Methodology of Transformational Sustainability Research (3CP). 30 Students
- SOS 320: Society and Sustainability (3CP). 50 Students
- SOS/BIO/HON/HPS 498: The Global Classroom – Are "Sustainable Cities" a Contradiction in Terms? (3CP). 40 Students (International collaboration with Leuphana University of Lüneburg)
- SOS 494/598: Sustainable Mobility Solutions in the Netherlands (1CP). 25 Students

2013 Fall

- SOS/BIO/HON/HPS 498: The Global Classroom – Are "Sustainable Cities" a Contradiction in Terms? (3CP). 41 Students (International collaboration with Leuphana University of Lüneburg)

2013 Spring

- SOS 320: Society and Sustainability (3CP). 60 Students.
- SOS/BIO/HON/HPS 498: The Global Classroom – Are "Sustainable Cities" a Contradiction in

Terms? (3CP). 41 Students (International collaboration with Leuphana University of Lüneburg)

- SOS/PAF/SST/HSD/ASB 594: Problem-Based Learning Course – Reinvent Phoenix (3CP). 15 Students
- MUD/SOS 594: Capstone Studio – Design, Sustainability, and the Future of Nanotechnology in the City (5CP). 12 Students

#### 2012 Fall

- SOS 511: Methodology of Transformational Sustainability Research (3CP). 16 Students
- SOS 594: Problem-Based Learning Course – Reinvent Phoenix (3CP). 10 Students

#### 2012 Summer

- Course: Complex Problem Solving (1CP). Co-taught with Daniel Lang. MBA Sustainability Management (Distance Learning Program), Leuphana University of Lüneburg. 27 Students

#### 2012 Spring

- SOS 320: Society and Sustainability (3CP). 54 Students
- SOS 594: Problem-Based Learning Course – Intervention Research on Sustainability Challenges in Phoenix (3CP). 10 Students

#### 2011 Fall

- SOS 511: Methodology of Transformational Sustainability Research (3CP). 16 Students [= all incoming graduate students]
- SOS 594: Intervention Research Seminar – Climate Change and Sustainability (3CP). Co-taught with George Basile. 4 Students

#### 2011 Summer

- Course: Complex Problem Solving (1CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 43 Students

#### 2011 Spring

- SOS 320: Society and Sustainability (3CP). 50 Students
- SOS 394: Sustainability-oriented Neighborhood Study in Mitchell Park, Tempe (1CP). 4 Students
- SOS 594: Intervention Research Seminar – Climate Change and Sustainability (1CP). 5 Students

#### 2010 Fall

- SOS 511: Methodology of Transformational Sustainability Research (3CP). 25 Students [= all incoming graduate students]

#### 2010 Summer

- Course: Complex Problem Solving (1CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 33 Students

#### 2010 Spring

- SOS 320: Society and Sustainability (3CP). 60 Students
- SOS 594: Problem-Based Learning Course – Future Scenarios, Anticipatory Governance, and Sustainability (3 CP). Co-taught with Cynthia Selin. 22 Students

#### 2009 Fall

- SOS 511: Methodology of Transformational Sustainability Research (3CP). 27 Students [= all incoming graduate students]

#### 2009 Summer

- Course: People, Systems, and Sustainability (3CP). Graduate Program in Sustainability Science, University of Tokyo. 14 Students
- Course: Complex Problem Solving (1CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 32 Students

#### 2009 Spring

- SOS 320: Society and Sustainability (3CP). 24 Students
- SOS 594: Science-Society Research Collaborations on Sustainability (3CP). 8 Students

#### 2008 Fall

- SOS 510: Perspectives on Sustainability (3CP). Co-taught with Charles Redman. 30 Students [= all incoming graduate students]

#### 2008 Summer

- Course: Systems Theory and Decision Making (3CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 32 Students

#### 2007 Summer

- Course: Systems Theory and Decision Making (3CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 20 Students

#### 2007 Spring

- Course: Prospective Environmental Assessments (3CP). Co-taught with Stefanie Hellweg, et al. Master Program in Environmental Engineering, ETH Zurich. 18 Students
- Course: Transdisciplinary Research Methodology (3CP). Master Program in Environmental Sciences, ETH Zurich. 7 Students

#### 2006 Fall

- Transdisciplinary Case Study Course: Decision-making on Radioactive Waste Disposal (18CP). Co-taught with Roland Scholz. Master Program in Environmental Sciences, ETH Zurich. 26 Students

#### 2006 Summer

- Courses: Systems Theory and Decision Making (3CP). Co-taught with Daniel Lang. MBA Sustainability Management (DLP), Leuphana University of Lüneburg. 20 Students

#### 2006 Spring

- Course: Transdisciplinary Research on Nuclear Energy Technology and Waste (1CP). Co-taught with Roland Scholz. Master Program in Environmental Sciences, ETH Zurich. 26 Students

#### 2005 Fall

- Transdisciplinary Case Study Course: Opportunities and Risks of Nanotechnology (18CP). Co-taught with Michael Siegrist. Master Program in Environmental Sciences, ETH Zurich. 57 Students

2005 Spring

- Course: Transdisciplinary Research on Nanotechnology (1CP). Co-taught with Michael Siegrist. Master Program in Environmental Sciences, ETH Zurich. 52 Students

## **Graduate Student Mentoring**

### **PhD Theses**

#### ***Committee Chair / Co-Chair***

##### *In Progress*

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##### *Completed*

Stefanie Albrecht (2017–2022). Sustainable Local Food Economies – The Case of Food Forests. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Theres Konrad (2016–2021). Competence Development in Sustainability Science. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Aaron Redman (2016–2020). Assessing the Development of Key Competencies in Sustainability. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Tamsin Foucrier (2015–2020). Preparing Future Sustainability Entrepreneurs – Designing, Implementing, and Assessing Learning Environments. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Michael Bernstein (2011–2016). Responsible Innovation and Sustainability: Interventions in Education and Training of Scientists and Engineers. School of Sustainability, Arizona State University.

Nigel Forrest (2011–2015). Selecting Programs for Urban Sustainability Transformations. School of Sustainability, Arizona State University.

Matthew Cohen (2012–2015). Aligning Process and Context in Public Participation for Sustainable Urban Development. School of Sustainability, Arizona State University.

Christopher Kuzdas (2009–2014). Toward Sustainable Governance of Water Resources – The Case of Guanacaste, Costa Rica. School of Sustainability, Arizona State University.

Lauren Withycombe Keeler (2010–2014). Quenching our Thirst for Future Knowledge – Participatory Scenario Construction and Sustainable Water Governance in a Desert City. School of Sustainability, Arizona State University.

Rider Foley (2010–2013). Towards Sustainable Anticipatory Governance: Analyzing and Assessing Nanotechnology Innovation Processes. School of Sustainability, Arizona State University.

David Iwaniec (2008–2013). Crafting Sustainability Visions – Integrating Visioning Practice, Research, and Education. School of Sustainability, Arizona State University.

Braden Kay (2008–2012). Developing and Testing Transition Strategies for Urban Sustainability – Case Studies in Transition Research in Phoenix, Arizona. School of Sustainability, Arizona State University.

Rajesh Buch (2008-2011). Sustainable Energy Decision Support Framework for Organizations. School of Sustainability, Arizona State University.

***Committee Member / External Evaluator***

*In Progress*

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*Completed*

Jana Baldy (2016–2021). “The town needs to want it” – An Analysis of the Initialization of Local Food Policies along the Cases of two Towns in Baden-Württemberg [German: „Es muss gewollt werden von der Stadt“ – Eine Analyse der Initialphase lokaler Ernährungspolitikintegration am Beispiel zweier Mittelstädte in Baden-Württemberg]. Faculty of Environment and Natural Resources, University of Freiburg, Germany.

Jan-Ole Brandt (2016–2021). A Matter of Connection – Competence Development in Teacher Education for Sustainable Development. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Hanna Weber (2017–2021). Sustainable Local Food Economies – Complementing Local Food Systems with Sustainable International Food Supply. Center for Global Sustainability and Cultural Transformation, Arizona State University and Leuphana University of Lüneburg.

Saurabh Biswas (2015–2020) Networked Energy Systems Design for Energy Access Solutions. School of Sustainability, Arizona State University.

Benjamin Warner (2009–2014). Barriers and Limits to Adaptation among Smallholder Rice Farmers in Northwest Costa Rica. School of Sustainability, Arizona State University.

Mark Wood (2008–2014). Toward Real Entrepreneurship Ecosystems: A Case Study of a Social Business Incubator and Its Potential for Engaging Sustainability. School of Sustainability, Arizona State University.

Robert Kutter (2009–2014). Effectiveness of Participatory Approaches in International Development Projects. School of Sustainability, Arizona State University.

Tom Berkhout (2007–2013). Planning for Radical Long-Term Electricity Demand-Side Management: The Intentional Transition of Socio-Technical Systems Toward Sustainable Pathways. University of British Columbia, Canada.

Thaddeus Miller (2007-2011). Constructing Sustainability – A Study of Emerging Scientific Research Trajectories. School of Sustainability, Arizona State University.

Annemarie van Zeijl-Rozema (2007-2011). Regional Sustainable Development – Barriers in Practice. Maastricht University, The Netherlands.

Alexander Walter (2004-2007). Embedding Transdisciplinary Research – Interface Requirements for Joint Problem Solving between Scientists and Stakeholders. ETH Zurich.



## Master Theses

### *Committee Chair / Co-Chair*

#### *In Progress*

Paula Pinto Zambrano (2021-2022). Assessing the Sustainability of Student Food Services/Canteens – the Case of the Studierendenwerk Freiburg-Schwarzwald. Faculty of Environment and Natural Resources, University of Freiburg.

#### *Completed*

Allison Buchanan (2019-2021). Sustainable Vision and Roadmap for a Malting SME. School of Sustainability, Arizona State University.

Bruna Carvalho (2019-2021) Anchoring Sustainability in SMEs through B Corp Certification, Center for Global Sustainability and Cultural Transformation, Leuphana University of Lüneburg and Arizona State University.

Madeline Mercer (2019-2021). Creating a Food Cooperative Business at a University Campus. School of Sustainability, Arizona State University.

Sophia Schroeder (2019-2021). An Intervention Study on the Role of the Workforce for Advancing Sustainability in SMEs. Center for Global Sustainability and Cultural Transformation, Leuphana University of Lüneburg and Arizona State University.

Nick Shivka (2018-2020). Developing a Concept for a Sustainable Beverage Business in Phoenix. School of Sustainability, Arizona State University.

Eric LePrete (2016–2020). Integrated Resources and Waste Management for Schools in Rural Paraguay. School of Sustainability, Arizona State University.

Eric Johnson (2016–2017). Transferring Concepts of Sustainable Regional Food Economies – A Case Study from Germany and the U.S. Center for Global Sustainability and Cultural Transformation, Leuphana University of Lüneburg and Arizona State University.

Sean Murray (2016–2017). From *InnovationCity Ruhr* to *InnovationCity Tempe* –Transferring a Model of Urban Sustainability Incubation from Germany to Arizona. Center for Global Sustainability and Cultural Transformation, Leuphana University of Lüneburg and Arizona State University.

Amy Minowitz (2011–2013). A Method for Sustainability Appraisal of Urban Visions. School of Sustainability, Arizona State University.

Angela Xiong (2011–2013). Participatory Design of a Comprehensive Playground Intervention. Manual for Obesity Mitigation in Phoenix, AZ. School of Sustainability, Arizona State University.

Daniel Culotta (2010-2012). From Reactive to Proactive: Creating a Governance System for Negotiating Local and Regional Climate Change Mitigation Interventions. School of Sustainability, Arizona State University.

Nigel Forrest (2009-2011). The Road to Sustainability: Communities in Transition (Case Studies from Europe and the U.S.). School of Sustainability, Arizona State University.

Andrea Baty (2008-2010). The Process of Sustainability Transformations in U.S. Cities. School of Sustainability, Arizona State University.

Lauren Withycombe (2008-2010). Anticipatory Competence as a Key Competence in Sustainability Education. School of Sustainability, Arizona State University.

Leonard Machler (2008-2010). The Use of the Sustainability Solution Space Framework to Assess a Sustainable State for Neighborhood Accessibility in Inner City Phoenix. School of Sustainability, Arizona State University.

Flavia Godet (2008). Computer-based Interactive Construction of Regional Scenarios for Sustainable Development – A Meta-study on QUEST-projects in Canada. ETH Zurich and University of British Columbia.

Felicia Mathis (2007). Agent Network Analysis for the Federal Strategy for Sustainable Development in Switzerland 2002-2007. ETH Zurich. [in German]

Ev Kirst (2007). Effectiveness of Sustainability Programs in Municipalities. ETH Zurich. [in German]

Beatrice Duerr (2006). Compatibility between National and Regional Scenarios for Spatial Development. ETH Zurich. [in German]

Mischa Schmid (2005). Formative Scenario Analysis and Intuitive Scenario Construction. ETH Zurich.

Vera Speerli (2004). Sustainability Solution Space for Thalwil (Canton Zurich, Switzerland). ETH Zurich. [in German]

### ***Committee Member***

#### *Completed*

Amy Minowitz (2011–2013). Visioning in Urban Planning – A Literature Review. School of Geographical Sciences and Urban Planning, Arizona State University.

Beatrice John (2010-2012). How much sustainability substance is in urban visions? Criteria-based assessment of visions in urban planning. Leuphana University of Lüneburg (Germany).

Kathleen Talbot (2010-2012). A Participatory, Transformational Approach to Urban Food Security Research. School of Sustainability, Arizona State University.

Riley Smith (2008-2010). Barriers to Sustainability Governance in City Administrations. School of Sustainability, Arizona State University.

Brigitte Anne Bavousett (2008). Corporate Sustainability Initiatives: Development and Implementation of a Forestation Project in an Evolving Carbon Credit Market. School of Sustainability, Arizona State University.

Sebastian Helgenberger (2006). Evaluating Societal Effects of Transdisciplinary Research Collaborations – An Empirical Ex-post Analysis. Leuphana University of Lüneburg (Germany) and ETH Zurich. [in German]

Martin Streicher (2003). Evaluation of the Local Agenda 21 Partnership Aachen (Germany) – Cape Town (South Africa). ETH Zurich.

### **Undergraduate Student Mentoring**

Katharina Greulich (2021–2022). Assessing the Sustainability of Public Canteens in the Freiburg Region. Bachelor Thesis. Faculty of Environment and Natural Resources, University of Freiburg.

Ariel LeBarron (2015–2016). Research Assistance in Transformational Water Solution Research. School of Sustainability, Arizona State University.

Zoe Stein (2015–2016). Research Assistance in Transformational Water Solution Research. School of Sustainability, Arizona State University.

John Quinn (2013–2014). Research Assistance in the Evaluation of Public Participation Events in Urban Planning and Development. School of Sustainability, Arizona State University.

John Quinn (2012–2013). Research Experiences for Undergraduates (REU). Decision Center for a Desert City, Arizona State University.

Brian Broomall (2012-2013). Evaluating Award-Winning Visions and Visioning Practices in U.S. Cities. Capstone Research. School of Sustainability, Arizona State University.

Kim Pearson (Spring 2012). Community Collective Action: A Case Study Documentary of the Sky Harbor Neighborhood Association in Phoenix, Arizona. Honor Thesis. School of Sustainability, Arizona State University.

Kendon Jung (2011-2012). Research Experiences for Undergraduates (REU). Decision Center for a Desert City, Arizona State University.

Elizabeth Kuhta (Spring 2011). The Sustainable Business and Living Incubator Lüneburg, Germany. Honor Thesis. School of Sustainability, Arizona State University.

Danielle Shaffer (2010-2011). Research Experiences for Undergraduates (REU). Decision Center for a Desert City, Arizona State University.

Jared Regan (Spring 2010). Potential Flaws and Improvements of the Carbon Offsetting Market. Honor Thesis. School of Sustainability, Arizona State University.

Adrienne Uphoff (2009-2010). Research Experiences for Undergraduates (REU). Decision Center for a Desert City, Arizona State University.

### **Teaching Awards**

2011 ASU President's Award for Sustainability for the problem-based learning course "The Future of Phoenix – Crafting Sustainable Development Strategies" and related thesis research projects (Role: Lead Instructor and Supervisor; Co-Instructor: Cynthia Selin) (2009-2010).

2010 ASU President's Award for Sustainability for the workshop course "Future Scenarios for Agriculture and Water in Arizona" (Role: Expert and Coach for scenario analysis methodology. Lead Instructor: Rimjhim Aggarwal) (Fall 2009).

## Professional Services

### Editorial Board Member

*Sustainability Science*

*Sustainable Development*

*International Journal of Sustainability in Higher Education*

### Scientific Advisory Council Member

*GAIA – Ecological Perspectives for Science and Society*

### Journal Manuscript Referee

*Ecological Economics*

*Ecological Indicators*

*Ecology and Society*

*Environment & Planning C: Government & Policy*

*Environmental Impact Assessment Review*

*Environmental Management*

*Environmental Studies and Sciences*

*European Journal of Operational Research*

*Evaluation and Program Planning*

*GAIA – Ecological Perspectives for Science and Society*

*Global Environmental Change*

*International Journal of Sustainability in Higher Education*

*International Journal of Sustainable Development & World Ecology*

*Journal of Cleaner Production*

*Journal of Environmental Assessment Policy and Management*

*Journal of Industrial Ecology*

*Journal of Nanoparticle Research*

*Journal of Planning Literature*

*Journal of Planning Education and Research*

*Journal for Sustainable Finance and Investment*

*Journal of Urbanism*

*Landscape and Urban Planning*

*Land Use Policy*

*Nature Sustainability*

*Research Policy*

*Science*

*Sustainable Development*

*Sustainability*

*Sustainability Science*

*Sustainability: Science, Practice, & Policy*

### **Reviewer for Research Funding Organizations**

National Science Foundation (USA)

European Science Foundation

European Commission (EU FP)

Social Sciences and Humanities Research Council of Canada

National Research Foundation (South Africa)

Swiss National Science Foundation

Swiss State Secretariat for Education and Research

National Climate Assessment (USA)

### **Advisor to Academic Sustainability Programs**

University of South Dakota – External Advisor (2016-2018)

Maastricht University Graduate School of Sustainability Science – Advisory Board Member (2010–2017)

Lund University, Sweden – Faculty Search Committee (2011)

Linköping University, Sweden – Faculty Search Committee (2010)

### **International Educational Activities**

Founding Coordinator and Member of the International Network of Programs in Sustainability (NEPS), including sustainability programs at Arizona State University (USA), the University of Tokyo (Japan), the University of Maastricht (The Netherlands), Lund University (Sweden), Stellenbosch University (South Africa), the Technical University of Catalonia, Barcelona, (Spain), Leuphana University of Lüneburg (Germany). (2010–2015)

### **Academic Societies**

International Society for Sustainability Science – Member (2012–ongoing)

International Sustainable Development Research Society – Board Member (2006–2013)

International Sustainability Conferences – Board Member (2008-2009)

### **University Services (ASU)**

Member of the Sustainability Education at ASU Committee (2013-2014)

Member of the Sustainability Minor at ASU Committee (2009-2010)

### **Departmental Service (GIOS/SOS)**

Member of the Personnel Committee (2019–ongoing)

Member of the Academic Program Review Committee (2019–2020)

Member of the SOS International Programs Council (2018–2019)

Chair of the Faculty Search Committee for one tenure-track faculty positions (2016-17)

Academic Program Director for the Joint Master in Global Sustainability Science (2015–2019)

Member of the Faculty Committee on Problem-Based Learning in Sustainability (2010–2014)

Member of the Academic Program Review Committee (2012–2013)

Member of the Graduate Curriculum Revision Committee (2012–2013)

Member of the Faculty Search Committee for three tenure-track faculty positions (2012)

Co-Chair of the 3<sup>rd</sup> International Conference on Sustainability Science (ICSS) at Arizona State University, Tempe. February 20-23, 2012. Co-Chairs: Rob Melnick, Sander van der Leeuw. Conference Director: John Harlow.

Member of the GIOS Future Research Group (2011–2012)

Member of the Graduate Committee (2010–2012)

Co-Chair of the Curriculum Committee (2009)

### *Past Appointments (ETH Zurich)*

Coordinator of the Major in Human-Environment Systems of the Master Program in Environmental Sciences at ETH Zurich (2005-2007)

President and co-founder of *seed sustainability*, a service for students' transdisciplinary research on sustainability at ETH Zurich and the University of Basel in cooperation with partners from private and public sectors (2005-2008)