

## Curriculum vitae: Dr. Elke Kellner

### 1. Personal Information

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Name                      Elke Kellner, PhD in Climate Science

University                School of Government & Public Policy  
University of Arizona

Email                     [kellner@email.arizona.edu](mailto:kellner@email.arizona.edu)

[Google Scholar](#)

### 2. Education

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04/2022                    **Certificate in Social and Behavioral Research Investigators**, University of Arizona, US.

04/2022                    **Certificate in Native American Research**, University of Arizona, US.

11/2019 – 12/2019       **Certificate in Rhetoric in Scientific Presentations**, University of Bern, CH.

08/2016 – 10/2019       **PhD in Science in Climate Science (summa cum laude)**, Institute of Geography and Oeschger Centre for Climate Change Research, University of Bern, CH. Title: *“Multi-purpose reservoirs for alleviating water shortages: Opportunities and challenges in the governance processes to coordinate competing resource uses under climate change“*. Supervisors: Prof. Dr. Rolf Weingartner (Hydrology) and Prof. Dr. Jean-David Gerber (Urban & Regional Planning).

10/2017 – 09/2019       **PhD courses** in “Social Network Analysis (SNA)”, “Earth system variability through time”, “Climate action - communication, advocacy, and technological solutions”, “Polycentric climate governance”, “Transdisciplinary research: Science meets practice”, “Governing climate change: Polycentricity in action?”, “Forest and environmental policy research”, “Scientific writing”, and “Scientific integrity”. CH, DE, NL.

02/2018 – 04/2019       **Certificate of Advanced Studies (CAS) in Higher Education**, University of Bern, CH.

01/2016 – 07/2016       **Certificate in Spatial Planning**, Swiss Association of Spatial Planning, Bern, CH.

09/2013 – 03/2015       **BSc Minor Sustainable Development**, University of Bern, CH. Grade: excellent.

07/2005 – 07/2006       **Nature Conservation and Experiential Education**, BUND für Umwelt- und Naturschutz, Ravensburg, DE.

08/1998 – 07/1999       **Guest Student in Organic Agricultural Sciences**, University of Kassel, DE.

04/1995 – 03/1997       **Diploma (equivalent to MSc) in Biochemistry**, Free University of Berlin, DE. Grade: excellent.

10/1993 – 03/1995       **Pre-Diploma in Biochemistry**, Free University of Berlin, DE. Grade: excellent.

08/1991 – 09/1993       **Pre-Diploma in Biology**, Philipps University Marburg, DE. Grade: excellent.

### 3. Employment history

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02/2022 – present        **Marie Curie Fellow**. School of Government & Public Policy, University of Arizona, US. Interdisciplinary research projects: Sustainable resource governance under pressure: How to govern trade-off situations under global change. Impact of Citizen Science on social transformation processes.

- 02/1999 – present **Lecturer.** Faculty of Organic Agricultural Sciences, University of Kassel, Witzenhausen, DE.
- 04/2021 – 01/2022 **Postdoctoral researcher.** Wyss Academy for Nature, University of Bern, CH. Developing the “Solutionscape” approach for sustainability transformation of complex land systems to reach social and environmental justice. Transdisciplinary research project “CO<sub>2</sub>-neutral tourist destination Berner Oberland” (Swiss Alps).
- 01/2019 – 12/2021 **Pilot Programme and transdisciplinary project** Adapting to Climate Change: “Multi-purpose reservoir Fuorcla / Nagens for adapting to summer shortages”. Collaboration with municipalities, companies, and authorities from local to national levels, Laax, CH.
- 12/2011 – 12/2021 **Elected member** of the commission “Processing and trade of certified organic food” (MKV). **Bio Suisse**, Basel, CH.
- 11/2019 – 10/2021 **Postdoctoral researcher.** Groups of “Environmental and Resource Economics” and “Mountain Hydrology and Mass Movements” at Swiss Federal Institute for Forest, Snow and Landscape Research WSL (ETH Zürich domain), CH. Interdisciplinary projects: Sustainable water governance under climate change to ensure climate change mitigation and adaptation. Governance of the warning chain for Swiss severe weather events at the national, regional, and local levels.
- 08/2016 – 10/2019 **PhD Researcher.** Institute of Geography and Oeschger Centre for Climate Change Research, University of Bern, CH.
- 01/2016 – 12/2016 **Research Assistant.** Section for Federal Planning, Federal Office for Spatial Development (ARE), Bern, CH. Project manager to evaluate the national spatial planning processes.
- 07/2014 – 12/2015 **Research Assistant.** Section for Sustainable Development, Federal Office for Spatial Development (ARE), Bern, CH. Co-organizer and co-leader of a participatory process with 150 stakeholders to develop the Swiss Sustainable Development Strategy 2016-2019.
- 08/2014 – 01/2015 **Lecturer.** Faculty of Agricultural, Forest and Food Sciences HAFL, Bern University of Applied Sciences, CH.
- 12/2006 – 12/2013 **Lecturer and Research Assistant.** Faculty of Agricultural, Forest and Food Sciences HAFL, Bern University of Applied Sciences, CH.
- 07/2005 – 11/2006 **Teacher** for nature conservation excursions with schools: BUND für Umwelt- und Naturschutz, Ravensburg, DE.
- 2004 – 2012 Five weeks per year in summer: **management of an alpine dairy**, Balisalp in the Bernese Oberland, CH. Fully responsible for cheese production, milking of dairy cows, and herding of cows, heifers, and pigs.
- 04/1997 – 07/1997 **Research Assistant.** Institute of Food Science, ETH, Zurich, CH.
- 03/1997 **Employee.** Chees dairy Dr. Oskar Flüeler, Alpnach Dorf, CH.
- 10/1995 – 12/1995 **Research Assistant.** Harvard Medical School Boston, Center for Blood Research, Department of Genetics, Boston, US.
- 08/1995 – 09/1995 **Research Assistant.** Max Planck Institute of Molecular Plant Physiology, Potsdam, DE.
- 05/1995 – 07/1995 **Research Assistant.** Max Planck Institute of Immunobiology and Epigenetics (MPI-IE), Freiburg, DE.

#### 4. Institutional responsibilities

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|-------------------|---|
| 01/2018 – 06/2019 | Member of the Commission Quality Assurance and Development (QAD), Institute of Geography, University of Bern, CH.                               |
| 01/2018 – 06/2019 | Representative of Intermediate Academic Staff, Institute of Geography, University of Bern, CH.  |
| 01/2008 – 12/2012 | Member of the Commission on Research, Faculty of Agricultural, Forest and Food Sciences HAFL, Bern University of Applied Sciences, CH.          |
| 08/2007 – 12/2012 | Representative of Intermediate Academic Staff, Faculty of Agricultural, Forest and Food Sciences HAFL, Bern University of Applied Sciences, CH. |

#### 5. Teaching activities (WT = Winter Term; ST = Summer Term)

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University of Arizona (US): International Environmental Policy and Governance (WT22; Master and PhD, seminar)

University of Kassel (D): Organic Food Processing (Since WT1999 each WT; Master, lecture and lab course).

ETH Zurich (CH): Sustainable Water Governance, Landscape and Environmental Planning (ST20; Master, lecture).

University of Bern (CH): Sustainability Governance Initiatives (WT18; Master, seminar). Theory and Empiricism: Tools of Science (ST19, ST18; Bachelor, lecture);

Bern University of Applied Sciences (CH): Chemistry (WT14, WT12, WT11, WT10, WT09, WT08; Bachelor, lecture). Milk Processing (WT12, WT11, WT10, WT09, WT08; Bachelor, lecture and lab course). Food Chemistry (ST12, ST11, ST10, ST09, ST08; Bachelor, lecture). Food Analysis (ST12, ST11, ST10, ST09, ST08; Bachelor, lab course). Molecular Cuisine (WT12, WT11, WT10, WT09, WT08; Bachelor, lecture and lab course).

#### 6. Scientific reviewing activities

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Reviewer for scientific journals: Environmental Science and Policy, Ecology and Society, Sustainability Science, Journal of Environmental Management, Sustainability, International Journal of the Commons.

#### 7. Active memberships in scientific societies

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[Earth System Governance Research Fellow Network.](#)

Earth System Governance [Taskforce on the Sustainable Development Goals.](#)

Earth System Governance [Task Force on Knowledge Cumulation.](#)

International Association for the Study of the Commons (IASC).

Polycentricity Network.

International Working Group for Polycentric Governance.

New Institutional Economics (NIÖ) – Network.

Institutional Grammar Research Initiative (IGRI).

#### 8. Organization of conferences, sessions, and workshops

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| 10/2022 | Discussant, panel “Analyzing polycentric climate networks”. Conference on Earth System Governance, Toronto, CAN. |
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| 08/2022 | Co-chair, panel “Empirical and conceptual developments of polycentric climate governance” (with Paul Tobin). European Consortium for Political Research (ECPR) Conference, University of Innsbruck, AT. |
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- 05/2022 – 11/2022 Organizer, international workshop series on the Social-Ecological Action Situations framework. Collaboration with the Stockholm Resilience Centre at the Stockholm University, SE. Online.
- 04/2022 – 06/2022 Co-organizer and moderator [Polycentricity Webinar Series](#) on “Network of Action Situations Approaches”. Online.
- 12/2021 Co-organizer and moderator, workshop “CO<sub>2</sub>-neutral tourism region Oberland-Ost” with 40 regional stakeholders, University of Bern, Interlaken, CH.
- 06/2021 Organizer, leader, and moderator, workshop “Warning chain for Swiss severe weather events at the national, regional, and local level”, with 25 national and regional representatives and scientists, WSL, Zurich, CH.
- 05/2021 Co-organizer (Steering Committee) Polycentricity Conference 2021 Intern. Assoc. for the Study of the Commons (<https://2021polycentricity.iasc-commons.org>). Virtual.
- 02/2021 Moderator [Polycentricity Webinar Series](#). Virtual.
- 01/2021 Organizer, leader, and moderator, workshop “Governance gaps of two Water-Energy-Food Nexus case studies in Switzerland – What to do next?”, with representatives of the Federal Offices for Energy, Environment, and Agriculture, and scientists, CH. Virtual.
- 10/2020 Chair, panel “Governance of social-ecological systems”, Intern. Assoc. for the Study of the Commons. Meeting on “Institutional and Social-Ecological Systems Analysis”. Virtual.
- 10/2020 Organizer, leader, and moderator, workshop “Sustainable water solutions for the region”. Participants: municipalities Flims, Laax, and Falera, canton of Graubünden, environmental NGOs, Flims Electric AG, Weisse Arena AG. Laax, CH.
- 06/2020 Co-organizer and moderator, workshop “Ecological impact of multipurpose use of water reservoirs” (with WSL), Federal Offices for Energy, Environment, and Agriculture, CH. Virtual.
- 09/2019 Co-chair, panel "Renewable Energy: Impacts on Mountain environments and people" (with A. Bjørnsen and M. Lehning), International Mountain Conference, Innsbruck, AT.
- 03/2019 Co-organizer, workshop “Hydro-CH2018 Water Reservoirs” (with WSL), Federal Office for Environment, Bern, CH.
- 06/2018 Co-chair, panel "Alpine multi-purpose reservoirs: Future potential and relevance" (with WSL and Swiss Federal Office for Environment), Forum Alpinum, Breitenwang, AT.
- 03/2017 Co-organizer, workshop “Multi-purpose use of reservoirs and lakes: Challenges and opportunities" (with WSL), eco.naturkongress, Basel, CH.
- 2006 - 2007 Organizer of a steering group with participants from the business sector, for the development of a new course of study “Food Science and Management”. Bern University of Applied Sciences, CH.

## 9. Fellowships

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- 02/2022 – 01/2025 Marie Curie Individual Global Fellowship. Project GOVTROFF “Sustainable resource governance under pressure: How to govern trade-off situations under global change”. European Commission, EU. Role: PI. EUR 278 840.
- 01/2021 Paper Grant “The controversial debate on the role of water reservoirs in reducing water scarcity”. Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), CH. Role: PI, CHF 2,800.

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| 01/2019 – 06/2021 | Research Grant for Pilot Programme Adapting to Climate Change: “Multi-purpose reservoir Fuorcla / Nagens for adapting to summer shortages”. Federal Office for the Environment (FOEN) and state and non-state project partners, CH. Role: Co-PI. CHF 250,000: FOEN; CHF 250,000: state and non-state project partners. |
| 08/2019 – 10/2019 | Research Grant “Multi-purpose reservoirs”. Institute of Geography, University of Bern, CH. Role: PI, CHF 15,000.   |
| 06/2019           | Paper Grant “Social acceptance of a multi-purpose reservoir in a recently deglaciated landscape in the Swiss Alps”. Oeschger Centre for Climate Change Research, University of Bern, CH. Role: PI, CHF 1,700.  |
| 10/2018           | Travel Award: Travel and participation at the conference “Workshop on the Ostrom Workshop 6 (WOW 6)”, Indiana University, Bloomington, IN, US. University of Bern, CH. Role: PI, CHF 1,700.  |
| 08/2016 – 07/2019 | PhD Fellowship. Dr. Alfred Bretscher Fund for Environmental and Air Pollution, Oeschger Centre for Climate Change Research, University of Bern, CH.  |
| 01/2011 – 12/2011 | Research Grant “Impact of homogenization on milk fat globules”. Swiss Confederation’s centre Agroscope Liebefeld, CH. Role: PI. CHF 50,000.  |
| 11/2009 – 12/2010 | Research Grant “Separation of milk fat globules of different sizes by centrifugation”. Swiss Food Research, CH. Role: PI. CHF 15,000.  |

#### 10. Personal skills (language, digital competences)

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| Languages         | German (native tongue), English  |
| Computer programs | Microsoft Word, Excel, and PowerPoint; Adobe Illustrator, InDesign, and Premiere Pro; MAXQDA |

#### 11. Career breaks

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| 08/1999 - 06/2005 | Part-time maternity leave for my three children. |
| 08/1997 – 07/1998 | Maternity leave for my first child.              |

### Research output: Dr. Elke Kellner

#### 1. Publications in peer-reviewed scientific journals

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**Kellner, Elke (2022):** Identifying leverage points for shifting Water-Energy-Food nexus cases towards sustainability through the Networks of Action Situations approach combined with systems thinking. In: *Sustainability Science*. DOI: [10.1007/s11625-022-01170-7](https://doi.org/10.1007/s11625-022-01170-7).

Kimmich, Christian; Villamayor-Tomas, Sergio; **Kellner, Elke**; Baldwin, B. Elizabeth; Oberlack, Christoph (2022): Networks of action situations: a systematic review of empirical research. Review. In: *Sustainability Science*. DOI: [10.1007/s11625-022-01121-2](https://doi.org/10.1007/s11625-022-01121-2).

**Kellner, Elke (2021):** The controversial debate on the role of water reservoirs in reducing water scarcity. In *WIREs Water*, e1514. DOI: [10.1002/WAT2.1514](https://doi.org/10.1002/WAT2.1514).

**Kellner, Elke**; Brunner, Manuela I. (2021): Reservoir governance in world’s water towers needs to anticipate multi-purpose use. In *Earth’s Future* 9, e2020EF001643. DOI: [10.1029/2020EF001643](https://doi.org/10.1029/2020EF001643).

Villamayor-Tomas, Sergio; Oberlack, Christoph; Epstein, Graham; Roggero, Matteo; Partelow, Stefan; **Kellner, Elke**; Tschopp, Maurice; Cox, Michael (2020): Using case study data to understand SES interactions: a model-centered metaanalysis of SES Framework applications. In: *Current Opinion in Environmental Sustainability* 44, pp. 48–57. DOI: [10.1016/j.cosust.2020.05.002](https://doi.org/10.1016/j.cosust.2020.05.002).

**Kellner, Elke**; Oberlack, Christoph; Gerber, Jean-David (2019): Polycentric governance compensates for incoherence of resource regimes: The case of water uses under climate change in Oberhasli, Switzerland. In: *Environmental Science & Policy* 100, pp. 126–135. DOI: [10.1016/j.envsci.2019.06.008](https://doi.org/10.1016/j.envsci.2019.06.008).

**Kellner, Elke** (2019): Social acceptance of a multi-purpose reservoir in a recently deglaciated landscape in the Swiss Alps. In: *Sustainability* 11 (14), p. 3819. DOI: [10.3390/su11143819](https://doi.org/10.3390/su11143819).

**Kellner, Elke** (2019): Soziale Akzeptanz der Talsperre Trift in den Schweizer Alpen. In: *Wasserwirtschaft* 109 (5), pp. 26–29. DOI: [10.1007/s35147-019-0033-7](https://doi.org/10.1007/s35147-019-0033-7).

### **Special Issue (editor)**

Kimmich, Christian; Ehlers, Melf-Hinrich; **Kellner, Elke**; Oberlack, Christoph; Thiel, Andreas; Villamayor-Tomas, Sergio (2020): Networks of action situations in social-ecological systems research. Upcoming Special Feature in *Sustainability Science*. In *Sustain Sci* 90, p. 150. DOI: [10.1007/s11625-020-00814-w](https://doi.org/10.1007/s11625-020-00814-w).

## **2. Contributions to books**

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**Kellner, Elke** (2020): Mehrzweckspeicher zur Minderung von Wasserknappheit im Sommer. In: Emmanuel Reynard ; Dubois, Alan ; Borgeat Theler, Muriel (Eds.): *Le Rhône. Territoire, ressource et culture: Cahiers de Vallesia*. Sion (33rd ed., 177-184).

## **3. Peer-reviewed conference proceedings**

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**Kellner, Elke**; Brunner, Manuela I.; Björnson Gurung, Astrid; Stähli, Manfred (2019): Verhandbar? Neue Ansprüche an Schweizer Wasserspeicher. pp. 37-40. In: Swiss Federal Institute for Forest, Snow and Landscape Research WSL (Hg.): *Schweiz erneuerbar*. Birmensdorf, Switzerland ([WSL Berichte, 84](#)).

**Kellner, Elke** (2019): Factsheet: Multipurpose use of water and related management implications under a changing climate in high-mountain regions. In Yvonne Schaub, Alain Foehn, Javier Fluixá Sanmartín, Lucía Guardamino Soto (Eds.): [Multipurpose use of water and related management implications under a changing climate in high-mountain regions](#), pp. 72–73.

Björnson Gurung, Astrid; Brunner, Manuela; Stähli, Manfred; **Kellner, Elke**; Clivaz, Melanie; Reynard, Emmanuel et al. (2018): Alpine multi-purpose reservoirs: Future potential and relevance. In Leopold Füreder, Rolf Weingartner, Kati Heinrich, Valerie Braun, Günter Köck, Klaus Lanz, Thomas Scheurer (Eds.): *Alpine water - common good or source of conflicts? Proceedings of the ForumAlpinum 2018 and the 7th Water Conference*. Breitenwand (Austria): Austrian Academy of Sciences Press, pp. 77–78.

**Kellner, Elke**; Oberlack, Christoph; Gerber, Jean-David (2018): Evolving polycentric climate governance: the Evolving polycentric climate governance: the case of multi-functional water use in Oberhasli, Switzerland. In Leopold Füreder, Rolf Weingartner, Kati Heinrich, Valerie Braun, Günter Köck, Klaus Lanz, Thomas Scheurer (Eds.): *Alpine water - common good or source of conflicts? Proceedings of the ForumAlpinum 2018 and the 7th Water Conference*. Breitenwand (Austria): Austrian Academy of Sciences Press, p. 79.

## **4. Oral contributions to conferences**

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### **Invited presentations**

05/2022 *Identifying leverage points for shifting Water-Energy-Food nexus cases towards sustainability through the Networks of Action Situations approach combined with systems thinking*. Polycentricity Webinar Series. Online.

- 04/2022 *Transformation of social-ecological systems under climate change in the European Alps.* Environmental Policy Course, University of Arizona, US.
- 03/2022 *Governance processes of trade-off situations in resource management to increase sustainable development.* Social Science Speaker Series, University of Arizona, US.
- 08/2021 *Mehrzweckspeicher als Anpassung an den Klimawandel?* Schlossmuseum Nidau, Nidau, CH.
- 06/2021 *Wasserspeicher im Zielkonflikt zwischen Minderung und Anpassung an den Klimawandel.* Strukturverbesserungstagung vom Bundesamt für Landwirtschaft und suissemelio. Virtual.
- 04/2021 *Governance of complex trade-offs between mitigation and adaptation in the Swiss Alps.* International Workshop Renewable Energy Transitions: Comparative Assessment in the Hindu Kush Himalayas, Andes and Alps. Himalayan University Consortium, Mountain Research Initiative (MRI), University of Arizona. Virtual.
- 03/2021 *(Un-)Sustainable water governance under climate change in Switzerland.* Sustainability Week Switzerland, University of Basel, CH.
- 10/2020 *Governance of multi-purpose use of water - Challenges and opportunities.* Hydro-CH2018 Meeting, Federal Office for Environment, Ittigen, CH.
- 12/2019 *Alpine Mehrzweckspeicher zur Minderung von Wasserknappheit im Sommer. Fallstudie im Berner Oberland und im Rhone-Gebiet.* 13<sup>ème</sup> colloque international sur le Rhône dans son environnement naturel et humain, L'Association Mémoires du Rhône, Sion, CH.
- 11/2019 *Neue Ansprüche an Schweizer Wasserspeicher.* Conference «Forum für Wissen», Birmensdorf, CH. [Film of the presentation.](#)
- 09/2019 *Social acceptance of a reservoir in a recently deglaciated landscape in the Swiss Alps.* International Mountain Conference, Innsbruck, AT.
- 04/2019 *Governance of resource uses under climate change. Focus on multipurpose (water) reservoirs as a measure for adaptation to climate change.* UNESCO Chair Meeting 2019 “Research on Cultural and Natural Heritage and Sustainable Mountain Development”, World Nature Forum WNF, Naters, CH.
- 03/2019 *Cooperation, competition and coercion in polycentric governance systems: The case of water-energy governance in Oberhasli, Switzerland.* International Research Workshop “Cooperation, competition and coercion in polycentric governance systems”, Centre for Global Cooperation Research, University Duisburg-Essen, DE.
- 06/2018 *Polycentric governance can compensate an incoherent regime under climate change. The case of multifunctional water use in Oberhasli, Switzerland.* Conference on multipurpose use of water. University of Zurich, together with CREALP, EPFL and Meteodat. Sion, CH.

### **Oral contributions to conferences**

- 10/2022 *Understanding past coevolutionary processes in social-ecological systems helps to envision pathways for sustainable futures: an action situations approach on Water-Energy-Food nexus.* Conference on Earth System Governance, Toronto, CAN.
- 08/2022 *Identifying leverage points for transformation towards sustainability through the Networks of Action Situations approach combined with systems thinking.* European Consortium for Political Research (ECPR) Conference. University of Innsbruck, AT.
- 09/2021 *Institutional fit of polycentric governance systems under climate change.* Earth System Governance Conference. Virtual.



- 09/2021 *Analyzing cross-sectoral coordination gaps in water governance with a network approach.* European Consortium for Political Research (ECPR) Conference. Virtual.
- 07/2021 *From understanding to transformation: Reaching climate and sustainable development goals in complex social-ecological systems through a system-level network approach.* International Research Symposium: Evidence for Action; Aligning the Climate and SDG Agendas. Virtual.
- 04/2021 *Capturing WEF Nexus as a network phenomenon in social ecological systems.* European Geosciences Union (EGU) General Assembly. Virtual.
- 09/2020 *Provision of polycentric climate governance systems for institutional fit: Evidence from multifunctional water governance in Switzerland.* Earth System Governance Conference. Conference cancelled due to Covid-19.
- 09/2020 *Polycentricity and the study of Networks of Action Situations: Unpacking synergies.* Earth System Governance Conference. Conference cancelled due to Covid-19.
- 08/2020 *Analysing the Water-Energy-Food (WEF) nexus using the Network of Action Situations (NAS) approach.* European Consortium for Political Research (ECPR) Conference. Virtual.
- 05/2020 *Reservoirs in world's water towers: Need for appropriate governance processes to reach Sustainable Development Goals.* European Geosciences Union (EGU) General Assembly. Virtual. [DOI: 10.5194/egusphere-egu2020-11004](https://doi.org/10.5194/egusphere-egu2020-11004).
- 09/2019 *Challenges of meeting lowland water demand through an upstream multi-purpose reservoir.* International Mountain Conference, Innsbruck, AT.
- 06/2019 *Emerging collective action to resolve sustainability trade-offs in polycentric governance systems: Evidence from Trift, Switzerland.* Workshop on the Ostrom Workshop 6 (WOW 6), Indiana University, Bloomington, IN, US.
- 06/2019 *Evolving polycentric governance processes can compensate incoherent resource regimes: Evidence of the canton of Bern, Switzerland.* Workshop on the Ostrom Workshop 6 (WOW 6), Indiana University, Bloomington, IN, US.
- 02/2019 *Implications of orchestration for polycentric governance systems. The case of multifunctional water use in the canton of Zurich, Switzerland.* New Institutional Economics (NIÖ) – Network Meeting 2019, University of Kassel, DE.
- 11/2018 *Adaptive capacity in processes of polycentric governance systems: The case of multifunctional water use in Switzerland.* 2018 Earth System Governance Conference, Utrecht, NL.
- 06/2018 *Evolving polycentric climate governance. The case of multifunctional water use in Oberhasli, Switzerland.* Forum Alpinum, Breitenwang, AT.
- 04/2018 *Polycentric climate governance: The case of multifunctional water reservoirs in the Swiss Alps.* Polycentric Climate Governance after Paris: Expectations, Challenges and Pathways, Freiburg, DE.
- 03/2018 *Evolving polycentric climate governance: The case of multifunctional water use in Oberhasli, Switzerland.* Governing Climate Change: Polycentricity in Action? Open University, Heerlen, NL.



## 5. Outreach activities

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- 08/2021 [Newspaper article](#): «Speicher könnten schwindendes Gletscherwasser ersetzen».
- 05/2021 [Podcast](#): Commoning #7: Polycentricity with Elke Kellner and Andreas Thiel.
- 04/2021 [Blog](#): Building new reservoirs can have unexpected consequences on water security.
- 03/2021 [Interview](#): Reservoir Governance in World's Water Towers Needs to Anticipate Multi-Purpose Use.
- 03/2021 [Photo](#). Intertwinedness of social-ecological interactions. SNSF Scientific Image Competition 2021.
- 03/2021 [Film](#). Linked social-ecological-technological systems. SNSF Scientific Image Competition 2021.
- 03/2020 [Photo](#): Climate change, palpable. SNSF Scientific Image Competition 2020.
- 03/2020 [Film](#): Visible climate change. SNSF Scientific Image Competition 2020.
- 11/2019 Production of a film: “Multi-purpose reservoirs: Competing resource interests”. Personal use in presentations and lectures at university.
- 11/2019 Preparation of a presentation for Prof. Rolf Weingartner about my research results to an association of communities and farmers (Verein Zukunft Drei-Seen-Land). Kerzers, CH.
- 08/2018 – 09/2018 External expert consultancy to a private company (Lützelschwab Consulting AG) regarding sustainable solutions for their products. Bern, CH.
- 09/2017 Invited presentation and discussant: “Opportunities of multi-purpose reservoirs”. Flims Electric AG, Weisse Arena AG. Laax, CH.
- 11/2017 – 01/2018 External expert consultancy to a high school of my residence on options to integrate education for sustainable development into their high school curriculum. Bern, CH.
- 02/2016 – 09/2016 Organizer, leader, and moderator of several workshops to evaluate the national spatial planning processes with state actors (national and cantonal administration) and non-state actors of different sectors, Bern, CH.
- 09/2016 Co-organizer “Forum for Sustainable Development” about “Sustainable Food Systems” (with Anne DuPasquier). Conference for decision-makers in municipalities, cities, cantons and regions in implementing sustainable development goals. Bern, CH.
- 09/2016 Organizer, Workshop “Nachhaltige Ernährung in städtischen Betreuungsangeboten”, Forum for Sustainable Development, Bern, CH.
- 09/2015 Co-organizer “Forum for Sustainable Development” about “Sustainable Urban Planning and Quality of Life” (with Anne DuPasquier). Conference for decision-makers in municipalities, cities, cantons and regions in implementing Sustainable Development Goals. Bern, CH.
- 2014 – 2015 Co-organizer of 27 half-day workshops with 150 stakeholders from civil society, business, science, the cantons and communes, and representatives of the Federal Administration for the renewal of the Swiss Sustainable Development Strategy 2016-2019 (with Daniel Dubas, Till Berger), Bern, CH.

## 6. Other artefacts with documented use

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Steeb, Nicolas; Badoux, Alexandre; Bialek, Roland; Bogner, Konrad; Hug Peter, Dorothea; **Kellner, Elke** Lienert, Christoph; Willemse, Saskia; Zappa, Massimiliano; Stähli, Manfred (2022): Vorhersage und Warnung von Unwettern in der Schweiz: Das Zusammenwirken von Bund und Kantonen anhand von zwei Fallbeispielen im Jahr 2020. In *Wasser Energie Luft* 114 (2), pp. 98–104.

**Kellner, Elke**; Stähli, Manfred; Unterberger, Christian; Olschewski, Roland; Thür, Angela; Björnsen Gurung, Astrid (2021): Herausforderungen der Governance sowie der ökologischen, landschaftlichen und ökonomischen Auswirkungen von Mehrzweckspeichern. Hydro-CH2018 Projekt. Im Auftrag des Bundesamts für Umwelt (BAFU), Bern, Schweiz, 82 S. [DOI: 10.5281/zenodo.4680488](https://doi.org/10.5281/zenodo.4680488).

**Kellner, Elke**; Weingartner, Rolf (2018): Chancen und Herausforderungen von Mehrzweckspeichern als Anpassung an den Klimawandel. In: *Wasser Energie Luft* 110 (2), pp. 101–107. [Online](#).

**Kellner, Elke** (2017): Evaluation der Sachplanung des Bundes. Bericht des Bundesrates in Erfüllung des Postulats 13.3461, Albert Vitali, vom 18.06.2013. Edited by Schweizerischer Bundesrat. Bundesamt für Raumentwicklung ([ARE](#)). Bern, Switzerland, pp 29.

**Kellner, Elke**; Dubas, Daniel (2016): Bericht zur Umsetzung der Strategie Nachhaltige Entwicklung 2012-2015. Edited by Bundesamt für Raumentwicklung ([ARE](#)). Bern, Switzerland, pp 19.

**Kellner, Elke**; Berger, Till; Dubas, Daniel (2015): Synthesebericht Stakeholder-Dialog. Im Rahmen der Erarbeitung der Strategie Nachhaltige Entwicklung 2016-2019. Edited by Bundesamt für Raumentwicklung ([ARE](#)). Bern, Switzerland, pp 81.

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