

Curriculum Vitae Christine Weber (January 2020)

Contact details

Christine Weber, Biologist, PhD
Swiss Rivers Program/ River restoration group
Eawag – Swiss Federal Institute of Aquatic Science and Technology
Seestrasse 79
CH-6047 Kastanienbaum
Switzerland

Phone: +41 (0)58 765 22 14
E-Mail: christine.weber@eawag.ch



Content	Page
1. Employment Record.....	2
2. Education.....	2
3. Research Grants.....	3
4. Team.....	4
5. Students mentored.....	4
6. Presentations at international meetings.....	5
7. Presentations at national meetings and seminars.....	6
8. Reviewing.....	8
9. Short-term academic commitments.....	9
10. Long-term academic commitments.....	9
11. Workshops and conferences (co-)organised.....	9
12. Collaboration with practitioners.....	10
13. Public outreach and media coverage.....	10
14. Teaching and continuing education.....	11
15. Further training.....	11
16. Additional skills.....	12
17. Publications.....	12
a. Peer-reviewed articles.....	12
b. Other articles.....	13
c. Factsheets and reports.....	14
d. Theses.....	15
e. Online text.....	15
f. Translation French - German.....	15
g. Other products.....	15

1. Employment Record

3. 2013 - Group leader “River Restoration” and program leader “Swiss Rivers Program” at the Swiss Federal Institute of Aquatic Science and Technology (Eawag); tenured since 11.2017
2. 2016 - Lecturer ETH Zurich, Master’s degree program in Environmental Engineering
8. 2014 - Lecturer ETH Zurich, Bachelor’s degree program in Environmental Sciences
8. 2012 – 2. 2013 Scientific collaborator at the Cantonal Office for Civil Engineering in Fribourg (river restoration planning)
5. 2012 – 6. 2012 Online editor for tschau.ch, an information platform for young people (topic: biodiversity, nature conservation, climate change)
3. 2010 – 2. 2012 Postdoctoral fellow with Prof. Dr. Christer Nilsson at the Landscape Ecology Group, Umeå University, Sweden. Granted by Swiss National Science Foundation (first year) and Kempe Foundation, Sweden (second year)
11. 2006 – 12. 2009 Scientific collaborator at the Swiss Federal Institute of Aquatic Science and Technology (Eawag), Department ‘Fish Ecology and Evolution’
11. 2007 – 12. 2009 Co-coordinator of the Swiss Modular Stepwise Procedure (River Assessment). www.modul-stufen.konzept.ch
11. 2006 – 10. 2007 Development of a concept for a long-term monitoring of fish assemblages in Swiss rivers. Pilot study on behalf of the Federal Office for the Environment, Berne
6. 2002 – 10. 2006 Ph.D. in Environmental Science at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and the Swiss Federal Institute of Technology Zurich (ETH)
6. 2002 – 12. 2005 Member of the Working Group ‘Project Assessment’ within the Rhone-Thur river rehabilitation project of Eawag, WSL, VAW, LCH. www.rivermanagement.ch
12. 2001 – 5. 2002 Scientific assistant at the Swiss Federal Veterinary Office, Department ‘Vollzugsunterstützung’ (implementation support)
10. 2001 – 11. 2001 Internship at the Swiss Federal Research Station for Agroecology and Agriculture, Research Group ‘Evaluation Ökomassnahmen’ (evaluation of ecological measures)
9. 2001 Internship at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Research Unit ‘Biodiversity’
8. 2000- 7. 2001 Internship at the Swiss Federal Veterinary Office, Department ‘Bewilligungen und Kontrollen’ (permits and supervision)

2. Education

6. 2002 – 10. 2006 Ph.D. in Environmental Science at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and the Swiss Federal Institute of Technology Zurich (ETH).
Title: River rehabilitation and fish – The challenge of initiating ecological recovery.
Supervision: Prof. Dr. Alexander J. B. Zehnder (ETH Zurich, Switzerland), Dr. Armin Peter (Eawag, Switzerland) and Prof. Dr. Jan Heggenes (Telemark College, Norway).
- 1999 - 2000 Master of Science thesis in Biology at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL) and the University of Berne, Switzerland.
Translated title: Long-term monitoring of physiological activity and transplantation of *Bactrospora dryina*: a contribution to the conservation of a rare lichen species.
Supervision of PD Dr. Christoph Scheidegger (WSL, Switzerland).
- 1995 - 2000 Master of Science degree in Biology at the University of Berne, Switzerland.

3. Research Grants

3. 2020 – 4. 2021 Project “Eingrenzung der hydraulischen Verhältnisse zur Bewertung des Indikators «Invertebraten-Drift» für die Sanierung Schwall-Sunk». Funding: Federal Office for the Environment, Berne. Co-applicant. Mai applicant: Dr. Nico Bätz, Eawag.
1. 2020 – 12. 2023 Project “HistoRiCH: Historical river change – Planning for the future by exploring the mapped past”. Funding: Swiss National Science Foundation. Project Partners: ETHZ, ZHAW, Eawag. Co-applicant. Main applicant: Prof. Dr. Lorenz Hurni, ETHZ.
6. 2018 – 2. 2020 Project “River restoration – learning from the implementation for the future”. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2018 – 12. 2020 Small Flex - Demonstrator for flexible small hydropower plants. Funding: Swiss Federal Office of Energy, Berne. Project partners: ETHZ, EPFL, WSL, HES. Co-applicant. Main applicant: Dr. Cecile Münch-Alligné, HES.
8. 2017 – 7. 2021 Project „Hydropeaking Mitigation – Synergies between Science and Practice”. Funding: Federal Office for the Environment, Berne. Main applicant.
3. 2017 – 2. 2021 Swiss Rivers Program – Second Phase. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2017 – 12. 2021 Project “Riverscapes – Sediment dynamics and connectivity”. Funding: Federal Office for the Environment, Berne. Project partners: ETHZ-VAW, EPFL-LCH, WSL. Co-applicant. Main applicant: Prof. Dr. Christoph Scheidegger, WSL.
1. 2018 – 12. 2020 Project “Effects of hydropower exploitation on spatio-temporal variability of temperature in downstream rivers”. Eawag Ad-Hoc Funding (Matching Funds). Co-applicant. Main applicant: Dr. Martin Schmid, Eawag.
1. 2017 – 12. 2020 Swiss Competence Centre for Energy Research “Supply of Electricity (SCCER-SoE)” – Second Phase. Funding: Commission for Technology and Innovation. Project partners: ETHZ, EPFL, UniBE, UniL, UniGE, UniNE, Università della Svizzera Italiana, PSI, WSL, HSLU, HES, HSR. Co-applicant. Main applicant: Prof. Dr. Domenico Giardini, ETH Zurich.
6. 2015 – 7. 2017 Project “Re-establishing sediment dynamics and ecosystem functioning in rivers: Elaborating transfer products within the project “Sediment and Habitat Dynamics” (funded by FOEN, 2013-2017)”. Eawag Ad-Hoc Funding (Matching Funds). Main applicant.
4. 2015 – 6. 2017 Project “Evaluating the success of river rehabilitation – towards an efficient use of resources”. Funding: Federal Office for the Environment, Berne. Main applicant.
1. 2014 – 12. 2016 Swiss Competence Centre for Energy Research “Supply of Electricity (SCCER-SoE) – First Phase. Funding: Commission for Technology and Innovation. Project partners: ETHZ, EPFL, UniBE, UniL, UniGE, UniNE, Università della Svizzera Italiana, PSI, WSL, HSLU, HES, HSR. Co-applicant. Main applicant: Prof. Dr. Domenico Giardini, ETH Zurich.
11. 2013 – 12. 2014 Project „Modelling fish habitat dynamics in hydropeaking rivers considering different morphology and habitat preference – current state, needs for improvement, and guidelines for application“. Funded by the Hydropower Research Program of the Swiss Federal Office of Energy, Berne. Project partners: SJE Ecological Engineering, Stuttgart. Main applicant.
7. 2013 – 6. 2017 Project “Sediment and habitat dynamics”. Funding: Federal Office for the Environment, Berne. Project partners: ETHZ-VAW, EPFL-LCH, WSL. Co-applicant. Main applicant: Prof. Dr. Christoph Scheidegger, WSL.
3. 2011 – 2. 2012 Postdoctoral fellowship offered from Kempe Foundations, Sweden.
3. 2010 – 2. 2011 Fellowship for prospective researchers offered from Swiss National Science Foundation.

4. Team

Members of the River Restoration Group

- 1.2020 – 4. 2021 Nathalie Friese, Trainee/ Master's student
- 4. 2019 – 1. 2020 Jonathan Molina, Scientific assistant
- 6. 2018 – 2. 2020 Lucie Sprecher, Project Scientist
- 4. 2018 – 6. 2020 Kate Mathers, Postdoc
- 9. 2017 – 8. 2021 Nico Bätz, Project Scientist

Alumni

- 9. 2019 – 12. 2019 Nicole Schöni, BSc student
- 6. 2019 – 9. 2019 Eric Tharmalingam, Trainee
- 5.2019 – 12.2019 Nathalie Friese, Trainee/ Master's student
- 3. 2019 – 2. 2020 Nikolina Janjic, Master's student
- 4. 2019 – 6. 2019 Esther Leitgeb, Master's student/ Scientific assistant
- 8. 2018 – 2. 2019
- 3. 2019 – 5.2019 Pierre Chanut, Scientific collaborator
- 12. 2014 – 4. 2019 Katharina Lange, Postdoc
- 8. 2018 – 1. 2019 Simone Jola, Civil servant
- 2. 2017 – 4. 2018 Lisa Wilmsmeier, Scientific assistant (in collaboration with M. Schmid)
- 2. 2018 – 4. 2018 Lioba Rath, Trainee
- 8. 2018 – 1. 2019 Samuel Sieder, Trainee/ Scientific Assistant
- 2. 2018 – 4. 2018
- 8. 2017 – 2. 2018 Jennifer Rieger, Trainee/ Bachelor's student
- 1. 2017 – 2. 2017
- 9. 2017 – 3.2018 Isabelle Ambord, Master's student
- 6. 2017 – 9. 2017 Severin Caluori, Trainee
- 10. 2015 – 2.2018 Ulrika Åberg, Project Scientist
- 9. 2016 – 8.2017 Franziska Ackermann, Master's student
- 8. 2014 – 12. 2016 Clemens Trautwein, Postdoc (in collaboration with J. Brodersen)
- 6. 2016 – 7. 2016 Petra Nobs, Master's student
- 4. 2016 – 7. 2016 Raquel Arias Font, Master's student
- 2. 2015 – 7. 2015 Yvonne Kahlert, Trainee/ Scientific Assistant
- 9. 2015 – 2. 2016
- 8. 2014 – 9. 2015 Alvaro Baumann y Carmona, Master's student (co-supervision with C. Trautwein)
- 3. 2014 – 9. 2014 Emilie Hanus, Trainee/ Master's student
- 12. 2013 – 2. 2015 Julian Junker, Scientific collaborator

5. Students mentored

PhD Students:

- 2010 – 2015 Lovisa Lind (Umeå University, Sweden; co-supervision with Prof. Dr. Christer Nilsson). Breaking the ice – effects of ice formation and winter floods on vegetation along streams

Diploma/ Master's Students/ Bachelor's Students:

- 9. 2019 – 12. 2019 Nicole Schöni (MSc thesis. ETH Zurich, Switzerland; co-supervision with Dr. N. Bätz). A proxy for monitoring invertebrate drift in hydropeaking rivers
- 8. 2018 – 2. 2019 Esther Leitgeb (MSc thesis. University Duisburg-Essen, Germany, and Radboud University, The Netherlands; co-supervision with Dr. Nico Bätz, Prof. Dr. André Nieman, Prof. Dr. Toine Smits). Effects of hydropeaking on physical habitats.
- 9. 2017 – 2. 2019 Jonathan Molina (MSc thesis. University of Lausanne, Switzerland; co-supervision with Prof. Stuart Lane and Dr. Katharina Lange). L'impact des petites centrales hydroélectriques au fil de l'eau sur l'habitat fluvial.

12. 2017 – 2. 2018 Jennifer Rieger (BSc thesis. Zurich University of Applied Sciences ZHAW; co-supervision with Dr. Michael Döring). Ecological effects of small-scale run-of-river hydropower plants.
9. 2017 – 4. 2018 Anita Bianchi (MSc thesis. ETH Zurich, Switzerland; co-supervision with C. Rachelly). Analyse ausgewählter Objekte des Bundesinventars der Auengebiete von nationaler Bedeutung.
9. 2016 – 8. 2017 Franziska Ackermann (MSc thesis. University of Basel; co-supervision with Prof. Dr. B. Baur). Effects of bed load dynamics on growth of trout *Salmo trutta* in alpine streams
6. 2016 – 7. 2016 Petra Nobs (MSc thesis. Amsterdam University, The Netherlands; co-supervision with Prof. Dr. Piet Verdonschot). Evaluating the long-term effects of river restoration. State of research
4. 2016 – 7. 2016 Raquel Arias Font (MSc thesis. Utrecht University, The Netherlands; co-supervision with Prof. Dr. Jos Verhoeven). Assessing river restoration success from a functional perspective: the potential of functional indicators
8. 2014 – 9.2015 Alvaro Baumann y Carmona (MSc thesis. University of Zurich, Switzerland; co-supervision with Dr. C. Trautwein). The effects of altered sediment regimes on Brown Trout *Salmo trutta* and their diet
3. 2014 – 9. 2014 Emilie Hanus (MSc thesis. Université François-Rabelais, Tours, France). Rivers in protected areas in Switzerland – distribution, ecological status and management
- 2006 / 2007 Lorenzo Rovelli (Diploma thesis. ETH Zurich, Switzerland). Erfolgskontrolle bei Fließgewässerrevitalisierungen - Räumliche Anwendung ausgewählter Indikatoren zur Überprüfung ihrer Aussagekraft und Praxistauglichkeit

6. Presentations at international meetings

Mathers, K.L., Robinson, C.T., Weber, C. Ecological and sedimentological effects of an experimental flood. Annual Meeting of the British Ecological Society. Belfast, Northern Ireland. December 10-13, 2019 (oral presentation).

Mathers, K.L., Robinson, C.T., Weber, C. Ecological and sedimentological effects of an experimental flood. SEFS Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5, 2019 (oral presentation).

Sprecher, L., Baumgartner, S., Thomas, G., Haertel-Borer, S., **Weber, C.** Learning by doing in river restoration: easy to say, but difficult to apply. Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5 (oral presentation).

Aksamit, C., Mathers, K., **Weber, C.**, Schmid, M. Ebb and flow: macroinvertebrate resilience to varying hydropeak frequency. Symposium for European Freshwater Sciences. Zagreb, Croatia. June 30 – July 5 (oral presentation).

Vanzo, D., Doering, M., **Weber, C.**, Schmid, M. The influence of hydropower production on river thermal heterogeneity: A modelling approach. General assembly of the European Geosciences Union. Vienna, Austria. April 7 – 12, 2019. (poster)

Weber, C. Comparing apples and oranges? Accounting for project diversity in monitoring and evaluation programs for river restoration. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018 (oral presentation).

Bätz, N., **Weber, C.** Hydropeaking mitigation in Switzerland: collaborative learning between research and practice. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018 (poster).

Thomas, G., Åberg, U., **Weber, C.** Towards a collaborative learning in river restoration in Switzerland. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018 (poster).

Lange, K., Meier, P., Trautwein, C., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J. Small is beautiful? Trading-off small hydropower, ecology and evolution. Symposium for European Freshwater Sciences. Olomouc, Czech Republic. July 2-7, 2017 (oral presentation).

Trautwein, C., **Weber, C.** Ecological structure and function in alpine rivers along a gradient of sediment dynamics. DGL/SIL Tagung, Vienna, Austria. October 26-30, 2016 (oral presentation).

Weber, C. Towards a Sustainable Management of Swiss Rivers – The Role of Transdisciplinary Research. Workshop “Dialogue between the Water Framework Directive and the Flood Directive” organized by the Alpine Convention. Munich, Germany, September 17-18, 2015 (oral presentation).

Trautwein, C., **Weber, C.**, Lange, K., Baumann y Carmona, A., Brodersen, J. Fish like “The Rolling Stones”. Symposium for European Freshwater Sciences. Geneva, Switzerland. July 5-10, 2015 (oral presentation)

Weber, C., Robinson, C. Schweizer Fließgewässer im Spannungsfeld zwischen Schutz und Nutzung. Fachtagung Ökohydraulik – Leben im, am und mit dem Fluss. Obernach, Germany. June 27-28, 2013 (oral presentation).

Weber, C., Nilsson, C. Fish in icy streams: and yet they move. 2nd Biennial Symposium of the International Society for River Science ISRS, Berlin, Germany. August 8-12, 2011 (oral presentation).

Peter, A., Hostmann, M., Roulier, C., **Weber C.**, Woolsey, S. River restoration - the long way to success. 4th ECCR International Conference on River Restoration, Venice, Italy. June 16 – 21, 2008 (oral presentation).

Weber, C., Fette, M., Wehrli, B., Peter, A. Hydropower production and river rehabilitation: A case study on an alpine river. 2nd Young Scientist Conference on Interdisciplinary Mountain Research, Trafoi, Italy. September 29 - October 2, 2004 (poster).

Weber, C., Paulmier, E., Zanini, F. Evolution de la qualité écologique des paysages de la plaine du Rhône sur la base d'une analyse spatiale de cartes historiques. Premier Colloque Mémoires du Rhône, Bramois, Switzerland. December 10, 2004 (oral presentation).

Zanini F., **Weber C.**, Paulmier, E., Schlaepfer R. The temporal development of ecological quality in a riverine landscape: A tool to define priority areas for rehabilitation. Our Shared Landscape – Integrating ecological, socio-economic and aesthetic aspects in landscape planning and management, Ascona, Switzerland. May 3 – 7, 2005 (oral presentation).

7. Presentations at national meetings and seminars

Sprecher, L., Weber, C., Thomas, G., Baumgartner, S., Haertel-Borer, S. Wirkungskontrolle in der Praxis (Vorstellung Praxisleitfaden). Forum Gewässerrevitalisierung WA21. Muttenz, Switzerland, December 5, 2019 (oral presentation).

Lange, K., Weber, C., Schmid, M. Ecological effects of small hydropower plants. SCCER-SoE Annual Conference, Lausanne, Switzerland, September 3-4, 2019 (presentation).

Aksamit, C., Vanzo, D., Carolli, M., Friese, N., Mathers, K., **Weber, C.**, Schmid, M. Ecological impacts of small-flexible hydropower: macroinvertebrate resilience to varying frequency hydropeaking. SCCER-SoE Annual Conference, Lausanne, Switzerland, September 3-4, 2019 (poster).

Weber, C. Sanieren, revitalisieren – gemeinsam durch Planung und Umsetzung. Eawag Info Day. Lucerne, Switzerland. September 3, 2019 (oral presentation).

Weber, C. Forellen mögen die „Rolling Stones“! Die ökologische Bedeutung von Kies und Co. Naturmuseum St. Gallen, Switzerland. August 14, 2019 (oral presentation).

Thomas, G., Sprecher, L., **Weber, C.**, Haertel-Borer, S., Baumgartner, S. Wirkungskontrolle bei Fliessgewässerrevitalisierungen: Lernen für die Zukunft. Suivi des effets pour les revitalisations des cours d'eau: apprendre pour l'avenir. Revitalisierung – 6. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Berne, Switzerland. November 22, 2018 (oral presentation).

Bätz, N., **Weber, C.** Gemeinsam lernen für die Sanierung von Schwall-Sunk. Sanierung Schwall-Sunk – 4. Informations- und Erfahrungsaustausch. Plattform Sanierung Wasserkraft/ WaterAgenda 21. Berne, Switzerland. November 6, 2018 (oral presentation).

Vanzo, D., Schmid, M., **Weber, C.**, Döring, M. Hydropower and water temperature: modelling the effects of management scenarios on river thermal heterogeneity. SCCER-SoE Annual Conference, Horw, Switzerland, September 14-15, 2018 (poster).

Vanzo, D., Schmid, M., **Weber, C.**, Döring, M. Hydropower and water temperature: modelling the effects of management scenarios on river thermal heterogeneity. Eawag Symposium. Dübendorf, Switzerland. September 14, 2018 (poster).

Weber, C., Ambord, I., Wilmsmeier, L., Lange, K. Small-scale hydropower plants in alpine streams – studying ecological effects across different scales. SCCER-SoE Annual Conference, Horw, Switzerland, September 14-15, 2018 (oral presentation).

Weber, C. Wirkungskontrolle Revitalisierung – Wasserbau und Ökologie/ Suivi des effets des revitalisations - Aménagement et écologie des cours d'eau. Fischereiaufseherkurs 2018. Abtwil, Switzerland. August 22, 2018 (oral presentation).

Weber, C. Die Schweizer Fliessgewässer revitalisieren – Grundlagen für den gemeinsamen Lernprozess. Internal seminar Vogelwarte Sempach. Sempach, Switzerland. May 9, 2018 (oral presentation).

Weber, C. Wirkungskontrolle Revitalisierung – Oder: Die Katze im Sack? Revitalisierung – 5. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Olten, Switzerland. April 24, 2018 (oral presentation).

Weber, C., Schleiss, A. Synthese aus dem Forschungsprogramm Wasserbau und Ökologie 2013–2017. Fokus: Geschiebesammler und ökologische Prozesse. KOHS-Tagung. Olten, Switzerland. March 20, 2018 (oral presentation).

Weber, C., Åberg, U. Revitalisieren, Sanieren – Lernen! Wirkungskontrollen mit Wirkung im Flussmanagement. Blaues Seminar VAW-ETHZ. Zurich, Switzerland. December 5, 2017 (oral presentation).

Weber, C., Åberg, U. Konzept Wirkungskontrolle Schweiz – Grundlagen für den Lernprozess. Symposium “Revitalisierung von Fliessgewässer – Lösungsansätze für vielfältige Herausforderungen“. AG.Renat/ WaterAgenda 21. Lucerne, Switzerland. November 13, 2017.

- Lange, K., Meier, P., Trautwein, C., Robinson, C., Schmid, M., **Weber, C.**, Brodersen, J. Trading off energy production from small hydropower with biodiversity conservation. SCCER-SoE Annual Conference, Birmensdorf, Switzerland, September 14-15, 2017 (oral presentation).
- Weber, C.**, Robinson, C. Professionalizing knowledge transfer – Lessons learned within a four-year transdisciplinary research project. Eawag Symposium. Dübendorf, Switzerland. September 15, 2016 (oral presentation).
- Weber, C.** Aktuelle Informationen der Eawag – Programm Fließgewässer Schweiz. Forum AG.Renat/ WaterAgenda 21. Berne, Switzerland, May 11, 2017.
- Weber, C.** Forellen mögen die „Rolling Stones“! Die ökologische Bedeutung von Kies und Co. Symposium „Fischen Jagen Schiessen“. Chur, Switzerland, February 11, 2017 (oral presentation).
- Weber, C.**, Trautwein, C., Martin, E., Bauman y Carmona, A., Döring, M., Robinson, C., Brodersen, J., Kahlert, Y., Lange, K. It's one thousand four hundred and forty seven! Or: Summarizing Eawag's research. Closure plenary meeting of the Project "Sediment and Habitat Dynamics". Berne, Switzerland, December 2, 2016 (oral presentation).
- Weber, C.**, Robinson, C. Promoting "The Rolling Stones" - Knowledge transfer within the transdisciplinary research project "Sediment and habitat dynamics". Eawag Symposium. Dübendorf, Switzerland. September 15, 2016 (poster).
- Lange, K., Di Michelangeli, S., Kahlert, Y., Hellmann, J., Trautwein, C., **Weber, C.**, Brodersen, J. Ecological impacts of small-scale run-of-river hydropower plants. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Sion, Switzerland, September 12-13, 2016 (poster).
- Weber, C.**, Åberg, U. Wirkungskontrolle bei Flussrevitalisierungen - Ein Projekt von Eawag und BAFU/ Evaluer les effets des mesures de revitalisation - un projet de l'Eawag et de l'OFEV. Fischereiaufseherkurs 2016. Lausanne, Switzerland. August 19, 2016 (oral presentations).
- Weber, C.** Die «Rolling Stones» und andere «Altbekannte» - Aktuelle Informationen der Eawag/ Les Rolling Stones et d'autres «vieilles connaissances» - Informations actuelles de l'Eawag . Fischereiaufseherkurs 2016. Lausanne, Switzerland. August 19, 2016 (oral presentations).
- Dunand, I., **Weber, C.** Revitalisation et assainissement de la force hydraulique. Informations actuelles de l'OFEV et état d'avancement du suivi des résultats national/ Revitalisierung und Sanierung Wasserkraft. Aktuelle Informationen des BAFU und Stand der nationalen Wirkungskontrolle. Annual meeting CerclEau. Lucerne, June 16, 2016 (oral presentation).
- Weber, C.** Programm Wasserbau und Ökologie. Sanierung Geschiebehalt – 2. Informations- und Erfahrungsaustausch zur Planung und Umsetzung von Massnahmen. WaterAgenda 21. Berne, Switzerland. May 4, 2016 (oral presentation).
- Weber, C.** Åberg, U. Die Umsetzung des GSchG unterstützen. Information event of the Swiss Water Association (Verband Schweizer Abwasser- und Gewässerschutzfachleute). Berne, Switzerland, January 15, 2016 (oral presentation).
- Lange, K., Di Michelangeli, S., Kahlert, Y., Hellmann, J., Trautwein, C., **Weber, C.**, Brodersen, J. Local-scale impacts of small hydropower plants on ecosystem functioning. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Neuchâtel, Switzerland, September 10-11, 2015 (poster).
- Lange, K., Meier, P., Trautwein, C., Kobler, U., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J. Trading-off among multiple objectives: energy production from small hydropower plants, biodiversity and ecosystem services. Annual Conference of the Swiss Competence Centre for Energy Research – Supply of Electricity. Neuchâtel, Switzerland, September 10-11, 2015 (poster).
- Weber, C.** Renaturation des cours d'eau: entre protection et utilisation. Eawag Info Day. Lausanne, Switzerland. September 3, 2015 (oral presentation).
- Weber, C.** Das „Programm Fließgewässer Schweiz“ von Eawag und BAFU. Revitalisierung – 1. Informations- und Erfahrungsaustausch. AG.Renat/ WaterAgenda 21. Berne, Switzerland. May 27, 2015 (oral presentation).
- Weber C.** Wasserkraftnutzung im Wasserschloss Schweiz: Herausforderungen aus ökologischer Sicht. Forum für Wissen. WSL Birmensdorf, Switzerland. November 25, 2014 (oral presentation).
- Weber, C.** Les poissons adorent les “Rolling Stones” – Régime de charriage et fonctions écologiques. Entretien des cours d'eau pour les praticiens – cours hiver. PUSCH, Villeneuve, Switzerland. November 21, 2014 (oral presentation).
- Weber, C.** Synthese erster Tag. Symposium „Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen“. Biel, Switzerland. October 30 – November 1, 2014 (oral presentation).
- Weber, C.**, Hellmann, J. Nach Projekten gefischt – Aktuelle Informationen der Eawag/ Pêche de projets – Informations de l'Eawag. Fischereiaufseherkurs 2014. Pontresina, Switzerland. August 22, 2014 (oral presentations).
- Weber, C.** Programm Fließgewässer Schweiz – eine gemeinsame Forschungsinitiative von BAFU und Eawag. Meeting Steering Committee WA21. Kastanienbaum, Switzerland. April 24, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Seminar SURF department, Eawag, Kastanienbaum and video transmission to Eawag Dübendorf, Switzerland. April 7, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Graduate discussion FishEc department, Eawag, Kastanienbaum, Switzerland. March 26, 2014 (oral presentation).

Weber, C. The Swiss Rivers Program - A joint research initiative by BAFU and Eawag to support practical river management. Lunch Seminar, Eawag, Dübendorf, Switzerland. February 20, 2014 (oral presentation).

Weber, C. Programm Fliessgewässer Schweiz. Meeting of the Section “Morphology and Residual Flows of Surface Waters” of the Swiss Federal Office for the Environment. Berne, Switzerland. November 21, 2013 (oral presentation).

Weber, C., Wehrli B. Programm Fliessgewässer Schweiz – ein Forschungsprogramm von Eawag und BAFU für die Praxis. Meeting of the Swiss Hydrological Commission CHy. Berne, Switzerland. March 26, 2013 (oral presentation).

Weber, C. Fish in icy streams – and yet they move. Annual meeting of the Landscape Ecology Group. Vindeln, Sweden. September 30, 2011 (oral presentation).

Weber, C., Lind, L., Nilsson, C. Climate change and ice formation in streams: Effects on fish communities and vegetation and tools for proactive restoration. Annual meeting of the Landscape Ecology Group. Örnsköldsvik, Sweden. September 29, 2010 (oral presentation).

Weber, C. Ice effects on riverine fish – proposal for a two-year postdoc project. Annual meeting of the Landscape Ecology Group. Björkudden, Sweden. October 1, 2009 (oral presentation).

Langhans, S., **Weber, C.** Das Modul-Stufen-Konzept. Annual meeting Cercl'eau. Solothurn, Switzerland. June 18, 2009 (oral presentation).

Weber C. Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Student information day (Interfakultäre Koordinationsstelle für Allgemeine Ökologie IKAÖ; University of Berne). Kastanienbaum, Switzerland. December 12, 2008 (oral presentation).

Bundi, U., Langhans, S., **Weber, C.** Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Seminar Eawag Dübendorf. Dübendorf, Switzerland. December 4, 2008 (oral presentation).

Bundi, U., Langhans, S., **Weber, C.** Step by step to an integrated river assessment: The Swiss Modular Stepwise Procedure. Seminar Eawag Kastanienbaum. Kastanienbaum, Switzerland. November 24, 2008 (oral presentation).

Weber, C., Peter A. Nationales Langzeit-Monitoring der Fischbestände in der Bachforellenregion der Schweizer Fliessgewässer. Federal Office for the Environment. Berne, Switzerland. November 12, 2008 (oral presentation).

Weber, C., Langhans, S. Modul-Stufen-Konzept: aktueller Stand und Zukunft. Annual meeting Cercl'eau. Thun, Switzerland. May 29, 2008 (oral presentation).

Weber, C., Peter A. A concept for a long-term monitoring of riverine fish stocks in Switzerland – with special emphasis on the trout region. Seminar of the Department Fish Ecology and Evolution. Kastanienbaum, Switzerland. March 8, 2008 (oral presentation).

Schager, E., Peter, A. **Weber, C.** Fische Stufe F und S: Prinzip, Anwendungen, aktueller Stand, Perspektiven. Meeting Swiss Modular Stepwise Procedure. Berne, Switzerland. January 25, 2007 (oral presentation).

Weber, C., Woolsey, S. Peter, A. Ende gut, alles gut? Ein Werkzeug für die Erfolgskontrolle. Eawag Info Day. Zurich, Switzerland. March 8, 2006 (oral presentation).

Weber, C., Peter A. Fish-ecological analysis in a degraded river system - Deficits, potentials and limitations. Seminar Eawag Kastanienbaum. Kastanienbaum, Switzerland. January 2005 (oral presentation).

Weber, C., Peter, A. Analyse fischökologischer Defizite in der Rhone. Annual meeting of the Swiss Society for Hydrology and Limnology SGHL. La Chaux-de-Fonds, Switzerland. September 3, 2004 (oral presentation).

8. Reviewing

- Canadian Journal of Fisheries and Aquatic Sciences
- Cambridge University Press
- Ecology of Freshwater Fish
- Ecology and Society
- Ecosystems
- Fisheries Management and Ecology
- Hydrobiologia
- Hydrology and Earth System Sciences
- Journal of Environmental Planning and Management
- Methods in Ecology and Evolution
- New Zealand Journal of Marine and Freshwater Research
- North American Journal of Fisheries Management
- River Research and Applications
- Science of the Total Environment

9. Short-term academic commitments

11. 2018 Science representative at the round table discussion at the “1ère journée nationale du réseau français des sites de démonstration pour la restauration des cours d'eau ». Paris, France. November 13, 2018.
6. 2018 Invited member of the scientific commission. Third international conference on integrated sciences and sustainable development of rivers. Lyon, France. June 4-8, 2018.

10. Long-term academic commitments

7. 2015 – 8. 2018 Member of the advisory group for the research project HyApp “Hydro-ecology and Floodplain Sustainability in Application” founded by Swiss National Science Foundation in the framework of the NRP 70.
1. 2015 – 1. 2019 Member of the steering board of the SGHL (Schweizerische Gesellschaft für Hydrologie und Limnologie/ Swiss Hydrological and Limnological Society)
2. 2014 - Founder and chair of the Eawag cross-departmental working group “Swiss Rivers” with members from 12 departments and associated platforms (FIBER, WA21, Plattform Wasserqualität).

11. Workshops and conferences (co-)organised

Workshop "Anforderungen an Praxisleitfaden für Wirkungskontrolle". Revitalisierung – 6. Informations- und Erfahrungsaustausch. Plattform Revitalisierung/ WaterAgenda 21. Berne, Switzerland. November 22, 2018.

Workshop “Wirkungskontrolle Revitalisierung – Finanzierung und Organisation”. Federal Office for the Environment. Olten, Switzerland. September 5, 2018.

Symposium “Citizen Science – Gemeinsam forschen und lernen in Hydrologie und Limnologie“. Swiss Hydrological and Limnological Society. Zurich, Switzerland. June 11, 2018.

“Science Workshop on Hydropeaking Mitigation”. Federal Office for the Environment. Berne, Switzerland, April 18, 2018

Symposium “Revitalisierung von Fließgewässer – Lösungsansätze für vielfältige Herausforderungen“. AG.Renat/ WaterAgenda 21. Lucerne, Switzerland. November 13, 2017.

Symposium “Fernerkundung – Anwendungen in Hydrologie und Limnologie“. Swiss Hydrological and Limnological Society. Biel, Switzerland. September 11, 2017.

Workshop “Evaluating the outcome of river rehabilitation projects: towards an effective use of resources”. Project workshop. Kastanienbaum, Switzerland. June 6-9, 2017.

Workshop “Umsetzung der Revitalisierungsplanungen – 4. Informations- und Erfahrungsaustausch”. AG.Renat/ WaterAgenda 21. Berne, Switzerland. March 23, 2017.

Workshop “Umsetzung der Revitalisierungsplanungen – 3. Informations- und Erfahrungsaustausch”. AG.Renat/ WaterAgenda 21. Fribourg, Switzerland. October 27, 2016.

Workshop “Evaluating the outcome of river rehabilitation projects: towards an effective use of resources”. Project workshops. Kastanienbaum, Switzerland. October 4-7, 2016/ May 30 – June 2, 2017 .

Workshop “National strategies for monitoring and success evaluation in river rehabilitation”. Two half day workshops at the international conference “Towards the Best Practice of River Restoration and Maintenance”, Krakow, Poland. September 20 – 23, 2016.

Workshop “Umsetzung der Revitalisierungsplanungen – 2. Informations- und Erfahrungsaustausch”. AG.Renat/ WaterAgenda 21. Berne, Switzerland. March 3, 2016.

Workshop “Umsetzung der Revitalisierungsplanungen – 1. Informations- und Erfahrungsaustausch”. AG.Renat/ WaterAgenda 21. Berne, Switzerland. May 27, 2015.

Workshop “Forecasting the outcome of hydropeaking mitigation measures: The role of fish input data and river morphology in habitat suitability modelling”. Project workshop. Kastanienbaum, Switzerland. November 13-14, 2014.

Symposium „Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen“. WaterAgenda 21. Biel, Switzerland. October 30 – November 1, 2014.

Cross-departmental working group “Swiss Rivers”. Half-day workshops for Eawag-internal coordination and exchange. Dübendorf, Switzerland. March 13, 2014/ June 3, 2014/ August 19, 2014/ February 10, 2015/ August 11, 2015/ March 3, 2016/ March 28, 2017/ October 24, 2017/ June 19, 2018/ January 24, 2019..

Konzept Plattform Renaturierung. Half-day workshop of the WaterAgenda 21. Berne, Switzerland. November, 18, 2013

Makrophyten-Bewertung in Fließgewässern - Diskussion Minimaldatensatz und weiteres Vorgehen. One day workshop of the working group „Macrophytes” (Swiss Modular Stepwise procedure). Berne, Switzerland. May 28, 2008.

Erfolgskontrolle bei Flussrevitalisierungen. One day workshop of the working group „Success evaluation“ (Rhône-Thur Project). Zurich, Switzerland. May 30, 2005.

Introduction and Workshop on Analysis of Variance (ANOVA). One day workshop hold by Prof. W. Stahel, ETH Zurich. Kastanienbaum, Switzerland. November 24, 2004.

Lecture and Workshop on Linear Regression. One day workshop hold by Prof. W. Stahel, ETH Zurich. Kastanienbaum, Switzerland. December 5, 2003.

12. Collaboration with practitioners

3. 2019 – 11. 2019 Project “River restoration – learning from the implementation for the future”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, private consultancies).
1. 2018 – Project “Riverscape – Sediment dynamics and connectivity”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, NGOs).
7. 2018 - Plattform Sanierung Wasserkraft (WaterAgenda 21): Member of the steering committee (Federal Office for the Environment, cantonal authorities).
9. 2018 - Plattform Renaturierung (WaterAgenda 21): Member of the steering committee (Federal Office for the Environment, cantonal authorities, NGOs, hydropower operators).
6. 2016 – 2. 2018 Project “Evaluating the outcome of river rehabilitation projects: towards an efficient use of resources”: Co-chair of the national advisory group (Federal Office for the Environment, cantonal services for water protection and river engineering, private offices).
5. 2015 – 12. 2018 Eawag representative in the advisory group for the elaboration of a national guideline on planning sediment rehabilitation measures (“Vollzugshilfe Massnahmenplanung Geschiebesanierung”). Federal Office for the Environment.
3. 2014 – 12.2017 AG.Renat/ WaterAgenda 21: Member of the steering committee and the working group “Renaturierung der Gewässer” (Federal Office for the Environment, cantonal services, NGOs, associations).
5. 2014 - Working group “Big Picture Renaturierung”. Federal Office for the Environment.
8. 2013 – 8. 2014 WaterAgenda 21: Member of the working group “Dialog Wasserkraft” (Federal Office for the Environment, Federal office of Energy, NGOs, hydropower operators).
7. 2013 – 12.2017 Project “Sediment and habitat dynamics”: Co-chair of the advisory group (Federal Office for the Environment, cantonal services for fishery, nature conservation and river engineering, NGOs).
3. 2010 – 2. 2012 Postdoc project Umeå University: Vindelns Fiskerådet, county administration of the county of Västerbotten
11. 2007 – 12. 2009 Swiss Modular Stepwise Procedure: Member in several advisory groups (Federal Office for the Environment, cantonal services for water protection, private offices)
11. 2006 – 10. 2007 Long-term monitoring of fish communities: Co-chair of the advisory group (Federal Office for the Environment, cantonal fishery services)
- 2004 – 2006 Birs river rehabilitation project: Cantonal fishery service BL
- 2002 – 2006 Rhône-Thur Project: Cantonal administration VS; Projet R3

13. Public outreach and media coverage

Guided tours Eawag Kastanienbaum (topic: river rehabilitation/ hydropower mitigation).

June 17, 2015	June 9, 2016	June 18-19, 2016	May 29, 2018
August 21, 2015	June 13, 2016	March 29, 2017	November 8, 2018
July 4, 2019	November 9, 2019		

Science representative at the 1st meeting of the «VSA Young Professionals». Solothurn, Switzerland. October 26, 2018.

Two-page interview in the magazine „Der Beobachter“ (860'000 readers). „Die Leute fragen mich: Was heisst das für unser Trinkwasser?“. May 2017.

200 anniversary scnat – Swiss Academy of Sciences. Public outreach event at the fish pass at the Mühlplatz, Lucerne, Switzerland. In collaboration with Dr. A. Peter, Eawag and Dr. B. Allgöwer, Natural History Museum Lucerne. August 6, 2015.

World Fish Migration Day 2014. Public outreach event at the fish pass at the Mühlplatz, Lucerne, Switzerland. In collaboration with Dr. A. Peter, Eawag and Dr. B. Allgöwer, Natural History Museum Lucerne. May 24, 2014.

Forskarträff Umeå (in Swedish): Field day for 45 local third-graders (topics: river ice, PIT-tagging, field work).

Guided tours Eawag Kastanienbaum 2002-2009 (topics: overview Eawag, river rehabilitation, river assessment)

Mentoring program for gymnasium students (2001; 2006)

Interview Tele Basel (field work at the Birs river rehabilitation project)

14. Teaching and continuing education

- 2019 Invited lecture on “Wirkungskontrolle bei Revitalisierungsprojekten”. CAS Course “Gewässerrenaturierung”. ZHAW Wädenswil. December 6, 2019.
- 2019 Contribution to workshop on «Erfolgskontrolle» at the VSA Course “Lebendige Gewässer”. Kandersteg, October 25, 2019.
- 2019 Invited lecture on “Suivi des effets”. CAS Course “Revitalisation des cours d’eau”. heig-vd Yverdon. April 6, 2019.
- 2019 PEAK-KOHS Course „Gestion des sédiments – synergies entre l’aménagement et l’écologie des cours d’eau “ (V46/19). EPF Lausanne, February 7, 2019
- 2017 - Invited lecture on „Wirkungskontrolle bei Flussrevitalisierungen – für einen effektiven Einsatz der Mittel”. Lecture series “Policy Analyse I: Politikprozesse und Instrumente” at University Berne, Switzerland.
- 2017 PEAK-KOHS Course „Sedimentmanagement in Fliessgewässern – Synergien zwischen Wasserbau und Ökologie “ (V46/17). Eawag, Dübendorf, November 22, 2017
- 2016 - Invited lecture on “Interactions between river morphology and organisms”. Lecture series “Eco-morphologie fluviale” in the Master’s Course « Sciences et ingénierie de l’environnement » at EPF Lausanne, Switzerland.
- 2016 - Lecture “Revitalisierung von Fliessgewässern”, ETH Zurich (in collaboration with Dr. V. Weitbrecht)
- 2015 - Lecture “Binnengewässer: Konzepte und Methoden für ein nachhaltiges Management”, ETH Zurich (in collaboration with Prof. Dr. Ch. Scheidegger and Dr. V. Weitbrecht)
- 2015 Invited lecture on “Gemeinsam lernen für ein nachhaltiges Gewässermanagement: Praxis-orientierte Forschung an Fliessgewässern“. High School Teacher Education University of Zurich – Biology Section (“Fachwissenschaftliche Vertiefung in Biologie für Lehrer”).
- 2015 - Invited lecture on “Fliessgewässerrevitalisierung und Erfolgskontrolle”. Module “Gewässerökologie und Revitalisierung” at the Zurich University of Applied Sciences - School of Life Sciences and Facility Management, Wädenswil, Switzerland.
- 2014 PEAK-Course „Methoden des Fliessgewässermanagements“ (B23/14). Eawag, October 21-22, 2014
- 2014 Lecture “Binnengewässer: Konzepte und Methoden für ein nachhaltiges Management”, ETH Zurich (in collaboration with Prof. Dr. Ch. Scheidegger and Dr. A. Peter)
- 2009 Invited lecture on “Ende gut, alles gut? Erfolgskontrolle bei Revitalisierungen von Fliessgewässern“. Module ‘Water’ at the Zurich University of Applied Sciences (ZHAW) - School of Life Sciences and Facility Management, Wädenswil, Switzerland.
- 2009 Invited lecture on “Fliessgewässer bewerten: Die Ökomorphologie Stufe F”. Module “Riverwatch” at the World Wildlife Fund for Nature, Zurich, Switzerland.
- 2004 ‘Systempraktikum’ at the Thur River, ETH Zurich, Switzerland.
- 2002 - 2006 Assistance and teaching activities in diverse field courses, ETH Zurich, Switzerland.
- 1995-1997 Replacement teacher at the secondary school in Sumiswald (german, french, english, history)

15. Further training

- 2017 Workshop Knowledge Brokering, Eawag, Switzerland
- 2014 Workshop Leadership, Eawag, Switzerland
- 2014 Facilitating meetings and workshops in interdisciplinary groups, ETH Zurich, Switzerland.
- 2010 Fish marking techniques: PIT-tagging. Swedish University of Agricultural Sciences, Sweden.
- 2007 Time Series Analysis Course, Eawag, Switzerland.

- 2005 Project Management Course, Eawag/ EMPA, Switzerland.
- 2005 Electrofishing Training for Instructors, Eawag, Switzerland.
- 2004 - 2005 Science and Politics of International Freshwater Management (Seminar), ETH Zurich, Switzerland.
- 2003 Writing English for Science, Eawag, Switzerland.
- 2002 GIS Course, Eawag, Switzerland.

16. Additional skills

Languages

<u>Language</u>	<u>Level</u>	<u>Professional experiences</u>
German	Mother tongue	Mother tongue
French	Advanced	Courses and presentations, e.g. at EPF Lausanne Position at the county administration, Canton Fribourg. Collaboration with EPFL during my PhD thesis, including presentations and co-authorship in articles in French. French-German translation of chapter 5 from the Swiss Red List of Lichens.
English	Advanced	Scientific work and publishing in Switzerland and abroad, presentations at national and international conferences, international collaborations.
Swedish	Basic	Two year postdoc at Umeå University, Sweden. Collaboration with local people (e.g., fishermen, county administration). Public outreach (e.g., field day for local third-graders).

Computer: Extensive experience with PC and Macintosh computers and a large variety of software (e.g., Office, SPSS, ArcMap, EndNote, MARK).

17. Publications

a. Peer-reviewed articles

Published or accepted for publication

- Lange, K., Wehrli, B., Åberg, U., Bätz, N., Brodersen, J., Fischer, M., Hermoso V., Reidy Liermann, C., Schmid, M., Wilmsmeier, L., **Weber, C.** 2019. Small hydropower goes unchecked. *Frontiers in Ecology and the Environment*. 5: 256-258.
- Marttunen, M., **Weber, C.**, Åberg, U., Lienert, J. 2019 Identifying relevant objectives in environmental management decisions: An application to a national monitoring program for river restoration. *Ecological Indicators*. 101: 851-866.
- Roni, P., Åberg, U., **Weber, C.** 2018. A review of approaches for monitoring the effectiveness of regional river habitat restoration programs. *North American Journal of Fisheries Management*. 38: 1170-1186.
- Lange, K., Meier, P., Trautwein, C., Schmid, M., Robinson, C., **Weber, C.**, Brodersen, J., 2018. Basin-scale effects of small hydropower on biodiversity dynamics. *Frontiers in Ecology and the Environment*. 16: 397-404.
- Gaudard, A., **Weber, C.**, Alexander, T., Hunziker, S., Schmid, M. 2018. Impacts of using lakes and rivers for extraction and disposal of heat. *WIREs Water*. e1295.
- Weber, C.**, Åberg, U., Buijse, A.D., Hughes, F.M.R., McKie, B.G., Piégay, H., Roni, P., Vollenweider, S., Haertel-Borer, S., 2017. Goals and principles for programmatic river rehabilitation monitoring and evaluation: Collaborative learning across multiple projects. *WIREs Water* 2017, e1257.
- Weber, C.**, Scheuber, H., Nilsson, C., Alfredsen, K.T., 2016. Detection and apparent survival of PIT-tagged stream fish in winter. *Ecology and Evolution*. 6 (8):2536-2547.
- Kurth, A., **Weber, C.**, Schirmer, M., 2015. How effective is river restoration in re-establishing groundwater – surface water interactions? A case study. *Hydrology and Earth System Sciences* 19: 2663-2672.
- Lind, L., Nilsson, C., **Weber, C.** 2014. Effects of ice and floods on vegetation in streams in cold regions: implications for climate change. *Ecology and Evolution* 4: 4173-4184.
- Lind L, Nilsson C, Polvi L.E., **Weber C.** 2014. The role of ice dynamics in shaping vegetation in flowing waters. *Biological Reviews* 89: 791-804.
- Weber, C.**, Nilsson, C., Lind, L., Alfredsen, K., Polvi, L., 2013. Winter disturbances and riverine fish in temperate and cold regions. *BioScience*. 63: 199-210.
- Weber, C.**, Peter, A., 2011. Success or failure? Do indicator selection and reference setting influence river rehabilitation outcome? *North American Journal of Fisheries Management*. 31: 535-547.
- Engström, J., Jansson, R., Nilsson, C., **Weber, C.**, 2011. Effects of river ice on riparian vegetation. *Freshwater Biology*. 56: 1095-1105.
- Weber, C.**, Schager, E., Peter, A., 2009. Habitat diversity and fish assemblage structure in local river widenings: A case study on a Swiss river. *River Research and Applications*. 25: 687-701

- Weber, C.**, Peter, A., Zanini, F., 2007. Spatio-temporal analysis of fish and their habitat: A case study on a highly degraded Swiss river system prior to extensive rehabilitation. *Aquatic Sciences* 69: 162-172.
- Fette, M.*, **Weber, C.***, Peter, A., Wehrli, B., 2007. Hydropower production and river rehabilitation: A case study on an alpine river. *Environmental Modelling and Assessment* 12: 257-267. *Both authors contributed equally
- Woolsey S., Capelli F., Gonser T., Hoehn E., Hostmann M., Junker B., Paetzold A., Roulier C., Schweizer S., Tiegs S., Tockner K., **Weber C.**, Peter A., 2007. Assessing river restoration: Indicator selection based on project objectives. *Freshwater Biology* 52: 752-769.

In revision or submitted

b. Other articles

Published

- Weber, C.**, 2018. Mögen Biber und Forelle die Rolling Stones? Über Kies und Co in kleinen Gewässern. *Ingenieurbiologie* 18 (4): 21-28.
- Fink, S., Belser, A., Juez, C., Scheidegger, C., **Weber, C.**, Vetsch, D. 2018. „Lebensraum Gewässer – Sedimentdynamik und Vernetzung“, ein Projekt im Forschungsprogramm „Wasserbau und Ökologie“. *N + L Inside*: 18(4): 27-32.
- Vetsch, D., Di Giulio, M., Franca, M.F., Juez, C., Scheidegger, C., **Weber, C.**, 2018. Erkenntnisse aus dem Projekt "Geschiebe- und Habitatsdynamik". *Wasser Energie Luft* 110 (3):195-200.
- Vetsch, D., Allen, J., Belser, A., Boes, R., Brodersen, J., Fink, S., Franca, M.F., Juez, C., Nadyeina, O., Robinson, C., Scheidegger, C., Schleiss, A., Siviglia, A., **Weber, C.**, Weitbrecht, V., 2018: Lebensraum Gewässer -Sedimentdynamik und Vernetzung. Forschungsprogramm «Wasserbau und Ökologie». *Wasser Energie Luft* 110 (1): 19-24.
- Fischer, M., Hemund, C., Zbinden, S., Müller, W., Vollenweider, S., Härtel-Borer, S., **Weber, C.**, 2017 Die Revitalisiererinnen und Revitalisierer. Gemeinsam für mehr Dynamik und Vielfalt. *Aqua& Gas*. 11: 78-83.
- Vetsch, D., **Weber, C.**, Scheidegger, C., and Franca, M. F. 2016. Freier Lauf für Fließgewässer. *Der Bauingenieur* 4:10-11.
- Weber, C.**, Junker, J. 2015. Reha für Rhein und Co. *VSAO Journal* 4: 32-34.
- Hanus, E. **Weber, C.** 2015. Les cours d'eau dans les aires protégées de Suisse : distribution, état écologique et protection. *Bulletin de l'ARPEA* 265: 19-26.
- Weber, C.**, Bösigler, R., Peter, A., Vollenweider, S. 2015. Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen. *WasserWirtschaft* 7/8: 109-112.
- Weber, C.**, Bösigler, R., Peter, A., Vollenweider, S. 2015. Fischwanderung in genutzten Gewässern – Herausforderungen und Lösungen. *Wasser Energie Luft* 2015 (1): 73-76.
- Weber, C.**, Schmid, M. 2014. Wasserkraftnutzung im Wasserschloss Schweiz: Herausforderungen aus ökologischer Sicht. *WSL Berichte* 21: 7-15.
- Schleiss, A., Boes, R., Brodersen, J., Doering, M., Franca, M.J., Nadyeina, O., Pfister, M., Robinson, C., Scheidegger, C., Vetsch, D., **Weber, C.**, Weitbrecht, V., and Werth, S. 2014. Geschiebe- und Habitatsdynamik – Forschungsprogramm «Wasserbau und Ökologie». *Wasser Energie Luft* 106: 117-122.
- Scheidegger, C., **Weber, C.**, Schleiss, A., Vetsch, D., Boes, R., Brodersen, J., Doering, M., Franca, M.F., Nadyeina, O., Pfister, M., Robinson, C., Weitbrecht, V., Werth, S., 2014. Forschungsprogramm "Wasserbau und Ökologie": Geschiebe- und Habitatsdynamik. *N + L Inside* 14: 20-24.
- Weber, C.**, 2013. Schweizer Fließgewässer im Spannungsfeld zwischen Schutz und Nutzung. Beiträge zur Fachtagung am 27. und 28. Juni 2013 in Oberrach. *Berichte des Lehrstuhls und der Versuchsanstalt für Wasserbau und Wasserwirtschaft* 128: 259-268.
- Zanini F., Zanini E., **Weber C.**, 2009. Dynamique des paysages et qualité écologique de la plaine du Rhône en amont du Léman, de 1850 à 2003. *Cahiers de Vallesia*. 21: 103-114.
- Peter, A., Hostmann, M., Roulier, C., Schager, E., **Weber, C.**, Woolsey, S., 2008. River restoration - the long road to success? *Proceedings of the 4th ECCR International Conference on River Restoration* 593-598.
- Weber, C.**, Göggel, W., Langhans, S., 2008. Aufwertungen in Fließgewässern planen: Die Methode Ökomorphologie Stufe S. *Ingenieurbiologie* 8 (3): 4-8.
- Weber, C.**, Peter, A., 2008. Was Fische wollen – oder Flussrevitalisierungen als Herausforderung. *natur und mensch* 50 (2): 5-8.
- Weber, C.**, Peter, A., 2008. How natural is the rehabilitated River Thur? *Annual Report Eawag* 2007: 30.
- Langhans, S., **Weber, C.**, Göggel, W., 2008. D'une méthode à l'autre vers une évaluation intégrale des cours d'eau. *Bulletin de l'ARPEA* 44 (238): 5-12.

- Peter, A., Schager, E., **Weber, C.**, 2008. Fischökologische Anforderungen an den Wasserbau. *VAW-Mitteilungen* 207-208: 811-823.
- Weber, C.**, Woolsey, S., Peter, A., 2006. All's well that ends well? A tool for outcome evaluation. *Eawag News* 61: 32-34.
- Zanini, F., Zanini, E., **Weber, C.**, Schlaepfer, R., 2006. Analyse de la dynamique du paysage de la plaine du Rhône de 1850 à 2003 sur la base de cartes topographiques. *Bulletin de la Murithienne* 124: 89-98.
- Weber, C.**, Woolsey, S., Peter, A., Roulier, C., Rast, S. (adaption), 2006. Le guide de suivi: un outil pour évaluer l'impact des actions de revitalisations de cours d'eau. *Archives des sciences* 59: 251-256.
- Peter, A., **Weber, C.**, 2004 Die Rhone als Lebensraum für Fische. *Wasser, Energie, Luft* 96 (11/12): 326-330.

c. Factsheets and reports

- Weber, C.**, Sprecher, L., Åberg, U., Thomas, G., Baumgartner, S., Haertel-Borer, S., 2019: Zusammenfassung und Inhalt. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 0, V1.01.
- Weber, C.**, Sprecher, L., Åberg, U., Thomas, G., Baumgartner, S., Haertel-Borer, S., 2019: Wirkungskontrolle Revitalisierung – das Wichtigste auf einen Blick. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 1, V1.01.
- Weber, C.**, Sprecher, L., Åberg, U., Thomas, G., Baumgartner, S., Haertel-Borer, S., 2019: Wirkungskontrolle STANDARD – Ablauf und Organisation. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 2, V1.01.
- Thomas, G., **Weber, C.**, Sprecher, L., Åberg, U., Baumgartner, S., Haertel-Borer, S. 2019: Wirkungskontrolle VERTIEFT 2020-24. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 3, V1.01.
- Thomas, G., **Weber, C.**, Sprecher, L., Åberg, U., Baumgartner, S., Haertel-Borer, S. 2019: Lernen für zukünftige Projekte. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 4, V1.01.
- Thomas, G., Baumgartner, S., Haertel-Borer, S., **Weber, C.**, Sprecher, L. 2019: Datenmanagement. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 5, V1.01.
- Weber, C.**, Sprecher, L., Åberg, U., Thomas, G., Baumgartner, S., Haertel-Borer, S. 2019: Herleitung Konzept. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 7, V1.01.
- Weber, C.**, Sprecher, L., Thomas, G., Baumgartner, S., Haertel-Borer, S. 2019: Vom Konzept zur Erhebung im Feld. In: Wirkungskontrolle Revitalisierung – Gemeinsam lernen für die Zukunft. Bundesamt für Umwelt BAFU, Bern. Merkblatt 8, V1.01.
- Di Giulio, M., Franca, M. J., Scheidegger, C., Schleiss, A., Vetsch, D., **Weber, C.**, 2017. Sediment- und Habitatsdynamik in Fließgewässern. In: Geschiebe- und Habitatsdynamik. Merkblatt-Sammlung Wasserbau und Ökologie. Bundesamt für Umwelt BAFU, Bern. Einleitung. *Available in German, French and Italian.*
- Weber, C.**, Döring, M., Fink, S., Martin Sanz, E., Robinson, C., Scheidegger, C., Siviglia, N., Trautwein, C., Vetsch, D., Weibrecht, V., 2017. Sedimentdynamik im Gewässernetz. In: Geschiebe- und Habitatsdynamik. Merkblatt-Sammlung Wasserbau und Ökologie. Bundesamt für Umwelt BAFU, Bern. Merkblatt 1. *Available in German, French and Italian.*
- Döring, M., Facchini, M., Fink, S., Franca, M. J., Martin Sanz, E., Robinson, C., Scheidegger, C., Siviglia, N., Trautwein, C., Vetsch, D., **Weber, C.**, 2017. Sedimentdynamik und ihre Auswirkungen messen. In: Geschiebe- und Habitatsdynamik. Merkblatt-Sammlung Wasserbau und Ökologie. Bundesamt für Umwelt BAFU, Bern. Merkblatt 2. *Available in German, French and Italian.*
- Juez, C., Franca, M.J., Fink, S., Scheidegger, Ch., Siviglia, N., Stähly, S., Trautwein, C., **Weber, C.**, Schleiss, A., 2017: Bedeutung und Einflussfaktoren der Feinsedimentdynamik. In: Geschiebe- und Habitatsdynamik. Merkblatt-Sammlung Wasserbau und Ökologie. Bundesamt für Umwelt BAFU, Bern. Merkblatt 3. *Available in German, French and Italian.*
- Bryner, A., Scheidegger, C., Peter, A., **Weber, C.**, 2013. Factsheet „Gewässerraum“. Eawag, WSL.
- Känel, B., Göggele, W., **Weber, C.**, 2009. Methoden zur Untersuchung und Beurteilung der Fließgewässer. Wasserpflanzen: Anleitung zur Probenahme. Bundesamt für Umwelt (BAFU). 60 p.
- Weber, C.**, Peter, A.; 2008. Nationales Langzeit-Monitoring der Fischbestände in der Bachforellenregion der Schweizer Fließgewässer. Report on behalf of the Federal Office for the Environment. Eawag. 55 p.
- Weber, C.**, Peter, A.; 2007. Die Fischgemeinschaft in der revitalisierten Birs bei Münchenstein – Schlussbericht des Forschungsprojekts der Eawag. Internal report. Eawag. 14 p.

Woolsey, S., **Weber, C.**, Gonser, T., Hoehn, E., Hostmann, M., Junker, B., Roulier, C., Schweizer, S., Tiegs, S., Tockner, K., Peter, A. 2005. Handbook for evaluating rehabilitation projects in rivers and streams. A publication of the Rhone-Thur Project, Eawag, WSL, LCH-EPFL, VAW-ETHZ, 112 p. Download: www.rivermanagement.ch

Weber, C. 2001 Zur Einfuhr von Zierfischen in die Schweiz. Bundesamt für Veterinärwesen. 54 p.

d. Theses

Weber, C. 2006 River rehabilitation and fish – The challenge of initiating ecological recovery. Doctoral thesis in Environmental Science at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and the Swiss Federal Institute of Technology Zurich (ETH).

Weber, C. 2000 Langzeit-Monitoring der physiologischen Aktivität und der Transplantation von *Bactrospora dryina*: Ein Beitrag zur Naturschutzbiologie einer seltenen Mittelwaldflechte. Diploma thesis in Biology at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL) and the University of Berne, Switzerland.

e. Online text

Science blog for the transdisciplinary website on river restoration (www.plattform-renaturierung.ch)

Weber, C. 2016. Land unter: Revitalisierungsprojekte bei Hochwasser. Que d'eau, que d'eau ! Les revitalisations face aux crues.

Weber, C. 2015. Ganz schön provokativ: Die fünf Mythen der Revitalisierungsökologie/ Une thèse provocatrice: les cinq mythes de l'écologie de la restauration.

Science blog from ETH Zurich (www.ethz.ch/de/news-und-veranstaltungen/eth-news/zukunftsblog.html.ch)

Vetsch, D., **Weber, C.**, Scheidegger, C. 2015. Freier Lauf für Fließgewässer.

Eight articles for tschau.ch - an information platform for young people in Switzerland (2012)

1. Umwelt – die Welt um uns herum (Lebensraum/ Naturgefahren/ menschlicher Einfluss)
2. Leben ist Bewegung (Mobilität/ Verkehr/ Transport)
3. I've got the power (Energie, Energieproduktion, Energieverbrauch)
4. Von Klimakillern und Klimarettern (Klima/ Klimawandel)
5. Alles im Fluss? (Wasser, Wassernutzung)
6. Du bist, was Du isst (Nahrungsmittel und ihre Herstellung)
7. Was übrig bleibt (Abfall/ Recycling/ Ressourcenverbrauch)
8. Der Mensch: Eine von acht Millionen Arten (Biodiversität/ Artentstehung und -verschwinden)

f. Translation French - German

Chapter 5 in: Scheidegger, C., Clerc, P., 2002 Rote Liste der gefährdeten Arten der Schweiz: Baum- und erdbewohnende Flechten. Hrsg. Bundesamt für Umwelt, Wald und Landschaft BUWAL, Bern, und Eidgenössische Forschungsanstalt WSL, Birmensdorf, und Conservatoire et Jardin botaniques de la Ville de Genève CJBG. BUWAL-Reihe Vollzug Umwelt. 124 S.

g. Other products

Weber, C., Maag, S. SP2I-Toolbox (Practical tools for scientists working at the Science-Policy/Practice Interface). Intranet Eawag. Online since September 2017.