

# CV and Publications

**Truffer, Bernhard** (Prof. Dr.)

Birth: November 16, 1961 in Wangen b. Olten, Switzerland

Married, two sons (1994, 1996)

Swiss Citizen

Languages: German, French, English, Spanish

Adresses: Office adress:

Head of department  
CIRUS –Innovation Research in Utility Sectors  
EAWAG - Swiss Fed. Inst. for Aquatic Science and Technology  
CH-8600 Dübendorf  
Switzerland  
T: ++41 (0)44 823 5670; F ++41 (0)44 823 5375  
E-Mail: truffer@eawag.ch  
Web: www.eawag.ch; www.cirus.ch; www.greenhydro.ch

Home:

Sälihalde 10  
CH-6005 Luzern  
Tel: 041-2401450

## Graduations

- Professorship Adjunct professor at the University of Bern (2011) in Economic Geography  
Habilitation University of Bern (Switzerland) 2006 in Economic Geography  
("The analysis of socio-technical transformations in environmental and regional research")  
Ph. D. University of Fribourg (Switzerland) 1993 in Economic Geography (Dr. rer nat)  
("Neo-Ricardian land rent theory and urban land use dynamics", summa cum laude).  
M.Sc. University of Fribourg (Switzerland) 1987 in Human and Economic Geography  
(secondary degrees in Mathematics and Economics)  
High. Teach. University of Fribourg (Switzerland) 1984 in Natural Sciences and Mathematics

## Professional Experience

- 2011 – today Adjunct professor in economic geography at the University of Bern.  
2010-2011 Harvard Kennedy School, Fellow in Sustainability Science, Harvard University  
Cambridge, MA  
2010 - today Founding editor (associate) of Environmental Innovation and Societal Transitions  
(Elsevier Journal launched 2010)  
2006 -- today Head of department Cirus at Eawag, Dübendorf  
2005 – today Affiliated to the Science Policy Group at the Social Science Resarch Centre (WZB),  
Berlin.  
1996 – today Affiliated to ETH Environmental Science Department (Lecturer)  
2002 – 2010 Lecturer (Privatdozent) in Economic Geography at the university of Berne  
2002 Fellow at the Social Science Research Centre, Berlin (WZB) – Research Unit  
"Innovation and Organization" (Prof. Dierkes)  
2001 Guest Scientist at the Society & Technology Research Group at DaimlerChrysler Co. in  
Berlin (Prof Minx)  
2001 - 2005 Head of research group CIRUS at EAWAG, Kastanienbaum.  
1997 - 2001 Initiator and head of project of the transdisciplinary program "Ökostrom" at EAWAG.  
1993 - 1996 Researcher and head of research group at the Human Ecology department, EAWAG  
1988 - 1992 Assistant at the Geography department, University of Fribourg  
1987 - 1988 Assistant at the Computer Center of the University of Fribourg

## Lecturing experience

- 2006-2010 Senior Lecturer/Reader (PD) at University of Bern (Innovation Studies and the environment)
- 2009 Seminar in Economic Geography (University of Bern)
- 2006 Venia legendi of the University of Bern
- 2005 -- today Lecturer at ETH Zürich D-UWIS, Seminar "Sustainability and transdisciplinary research", WS (3 ECTS)
- 2005 - 2006 Lecturer at the University of Berne (Economic Geography) "Innovation systems in space and time" (2 h/w in WS).
- 2002 - 2005 Lecturer at the University of Berne (Economic Geography) "Economic Geography of Infrastructure sectors" (1 h/w in 2002/3 and 2003/4; 2 h/w in 2004/5, WS&SS).
- 2004 Co-organizer of seminar course at the University of Lucerne (Theology) Transformation processes in the church from an organizational science perspective (2 h/w, SS)
- 2004 Co-organizer and member of the scientific advisory board of the Spring School on Science and Technology Studies "sites of knowledge production". (4 days)
- 1995 - 1997 Lecturer at ETH (Environmental Sciences, Division Xb) Urban dynamics and Sustainable development (2h/w, SS)
- 1993/4 Lecturer at University of Neuchâtel (Human Geography) Social dimensions of global climate change (2 h/w, WS)
- 1988 - 1992 Lecturer at University of Fribourg (Social and Economic Geography) (2h/w, WS&SS)

## **Publications**

### **Peer reviewed articles in academic journals**

- Truffer, B., Coenen, L. (accepted): Environmental innovation and sustainability transitions in regional studies. Invited Regional Studies Annual Lecture paper. Forthcoming in *Regional Studies*.
- Konrad, K., Markard, J., Ruef, A. Truffer, B. (accepted) Strategic response to hype and disappointment: the case of stationary fuel cells. Accepted to *Technological Forecasting and Social Change*.
- Gebauer, H. Truffer, B., Binz, C., Störmer, E. (accepted) Business network formation for onsite wastewater treatment systems. Accepted for *European Management Journal*.
- Coenen, L., Truffer, B. (accepted) The geography of transitions. Introduction to the Special Issue Sustainability Transitions and the role for Geography. *European Planning Studies*.
- Markard, J., Raven, R., Truffer, B. (accepted) Emerging traits of a research agenda on sustainable socio-technical transitions. Editorial and introductory paper to the Special Issue on socio-technical transitions for sustainability in Accepted for *Research Policy*.
- Coenen, L., Benneworth, P., Truffer, B. (accepted) The geography of transitions. Addressing the hidden spatial dimension of socio-technical transformations. Accepted with minor revisions for Special Issue on socio-technical transitions for sustainability in *Research Policy*.
- Coenen, L., Truffer, B. (forthcoming) Spaces and scales of sustainability transitions: geographical contributions to an emerging research and policy field. Editorial for a special issue in *European Planning Studies*.
- Dewald, U. Truffer, B. (accepted) Emerging innovation systems – diffusion of photovoltaic applications in Germany. Accepted for *European Planning Studies*.
- Binz, C., Truffer, B. (accepted) Leapfrogging in Infrastructure. Identifying transition trajectories towards decentralized urban water management systems in China. Accepted for *Technological Forecasting and Social Change*.
- Dewald, U. and Truffer, B. 2011. Market Formation in Technological Innovation Systems— Diffusion of Photovoltaic Applications in Germany', *Industry & Innovation*, 18: 3, 285 - 300

- Dominguez, D., Truffer, B., Gujer, W. (2011): Tackling uncertainties in infrastructure sectors through strategic planning -- The contribution of discursive approaches in the urban water sector. *Water Policy*, 13, 299-316.
- Truffer, B., Störmer, D., Maurer, M., Ruef, A. 2010. Local Strategic Planning Processes and Sustainability Transitions in Infrastructure Sectors. *Environmental Policy and Governance*. 20, 258-269.
- Störmer, E., Truffer, B., Dominguez, D., Gujer, W., Herlyn, A., Hiesl, H., Kastenholz, Klinke, A., H., Markard, J., Maurer, M., Ruef, A., 2009. The Exploratory Analysis of Trade-Offs in Strategic Planning. Lessons from Regional Infrastructure Foresight. *Technological Forecasting and Social Change*. 76, 1150-1162.
- Störmer, E., Truffer, B. 2009. Decision making in inert infrastructure systems. Participatory Foresight and strategic planning for a sustainable transition of sanitation systems on the local level. *Geographica Helvetica*. 26/2, 73-80.
- Markard, J., Stadelmann, M., Truffer, B. 2009. Prospective analysis of technological innovation systems: Identifying technological and organizational development options for biogas in Switzerland. *Research Policy*, 38, 655-667.
- Dominguez, D., Worch, H., Markard, J., Truffer, B., Gujer, W. 2009. Strategic Planning and Organizational Transformation in Infrastructure Sectors: Case Study Evidence from Swiss Wastewater Utilities. *California Management Review*, 51(2), 30-50.
- Truffer, B., Voss, J.-P., Konrad, K., 2008. Mapping Expectations for System Transformations. Lessons for Sustainability Foresight in German Utility Sectors. *Technological Forecasting and Social Change*. 75 (2008), 1360-1372.
- Markard, J., Truffer, B. 2008. Actor oriented analysis of innovation systems: Exploring micro-meso level linkages in the case of stationary fuel cells. *Technology Analysis & Strategic Management*, Vol. 20, No. 4, July 2008, 443–464
- Konrad, K., Truffer, B., Voss, J.P. 2008. Multi-regime Dynamics in the Analysis of Sectoral Transformation Potentials. Evidence from German utility sectors. *Journal of Cleaner Production*. 16, 1190-1202.
- Markard, J., Truffer, B. 2008. Technological innovation systems and the multi-level perspective: towards an integrated framework. *Research Policy*, 37, 596–615.
- Truffer B, 2008. Society, technology, and region: contributions from the social study of technology to economic geography. *Environment and Planning A*, 40(4) 966 – 985
- Truffer, B. 2007. Knowledge integration in transdisciplinary research projects - The importance of reflexive interface management [Wissensintegration in transdisziplinären Projekten. Flexibles Rollenverständnis als Schlüsselkompetenz für das Schnittstellenmanagement]. *GAIA* 16/1, pp. 41-45.
- Reichert, P., Borsuk, M., Hostmann, M., Schweizer, S., Spörri, C., Tockner, K., Truffer, B. 2007. Concepts of decision support for river rehabilitation. *Environmental Modelling and Software*, 22, 188 - 201.
- Markard, J., Truffer, B., 2006. Innovation processes in large technical systems: Market liberalization as a driver for radical change? *Research Policy*. 35, 609-625..
- Lienert, J., Monstadt, J., Truffer, B. 2006. Future Scenarios for a sustainable water sector. A case study from Switzerland. *Environmental Science and Technology*. 40, 436-442..
- Markard, J., Truffer, B., 2006. The promotional impacts of green power products on renewable energy sources: direct and indirect eco-effects. *Energy Policy*. 34, 306-321.
- Hostmann M., Bernauer T., Mosler H.J., Reichert P. and Truffer B. 2005. Multi-Attribute Value Theory as a Framework for Conflict Resolution in River Rehabilitation. *Journal of Multi-Criteria Decision Analysis*. 13; 91-102.
- Harms, S., Truffer, B. 2005. Vom Auto zum Car Sharing: Wie Kontextänderungen zu radikalen Verhaltensänderungen beitragen. *Umweltpsychologie* 9(1), 3-27.

- Hostmann, M., Borsuk, M., Reichert, P., Truffer, B. 2005. Stakeholder Values in Decision support of river rehabilitation. *Large Rivers, Archiv für Hydrobiologie Supplement*. 15, (1-4) 491-505.
- Bratrich C., Truffer, B., Jorde, K., Markard, J., Meier, W., Peter, A., Schneider, M., and Wehrli, B. 2004. Green Hydropower: a new assessment procedure for river management, *River Research and Applications*, 20, 865-882.
- Markard, J., Truffer, B., Imboden, D.M., 2004. The impacts of market liberalization on innovation processes in the electricity sector. *Energy & Environment*, 15 (2), 201-214.
- Bruppacher, S., Truffer, B. 2004. Effekte von Pilot- und Demonstrationsprojekten auf Einstellungen gegenüber Grünem Strom und erneuerbaren Energien. *Umweltpsychologie*, 8/1, 108-119.
- Rothenberger, D., Truffer, B. 2003. Private Sector Participation in Water and Sanitation Reviewed – Insights from New Institutional Economics. *Greener Management International*, Special issue on “The Business of Water Supply and Sustainable Development”, edited by Chenoweth, J. and Bird, J. S. 21-34.
- Truffer, B., Bratrich, C., Markard, J., Peter, A., Wüest, A., Wehrli, B, 2003: Green Hydropower - The Contribution of Aquatic Science Research to the Promotion of Sustainable Hydropower. *Aquatic Sciences*, 65, 99-110.
- Truffer, B. 2003. User Led innovation processes. The development of professional carsharing by environmentally concerned citizen. *Innovation – The European Journal of Social Science Research*, Special issue on “The Role of Users in Technological Innovations” edited by J. Jelsma and H. Rohracher. Vol. 16, 139-154.
- Truffer, B., Metzner, A, Hoogma, R. 2003. The Coupling of Viewing and Doing. Strategic Niche Management and the electrification of individual transport. *Greener Management International*, special issue on "Foresighting and Innovative Approaches to Sustainable Development Planning". Issue 37, pp. 111-124.
- Wüstenhagen, R., Markard, M., Truffer, B. 2003: Diffusion of Green Power Products in Switzerland. *Energy Policy*, 31, 621-632.
- Bratrich C., Truffer, B. Wehrli, B. Jorde, K. 2002: Green Electricity: Swiss Standard for Environmentally Compatible Hydropower, *HydroVision 2002 Technical Papers*, HCI Publications.
- Rothenberger, D., Truffer, B. 2002. Water Pricing. An instrument for sustainability? In *GAIA*, 11, 4, 281-284.
- Truffer, B., Markard, J., Wüstenhagen, R. 2001: Enhancing Customer Demand for Green Electricity — Perspectives of Eco-Labeling in the European Market. *Energy Policy*, 29/11, pp 885-897.
- Truffer, B., Makard, J., Bratrich, C. Wehrli, B. 2001. Green electricity from alpine hydropower plants. In *Mountain Research and Development*, Vol 21, pp. 19-24.
- Truffer, B., Bloesch, J., Bratrich, C., Wehrli, B. 1998. “Ökostrom”: Transdisziplinarität auf der Werkbank. *GAIA* Vol. 7, No. 1, 26-35.
- Truffer, B., Dürrenberger, G., 1997. Outsider initiatives in the reconstruction of the car: The case of light weight vehicle milieus in Switzerland. *Science, Technology, & Human Values*, Vol. 22, No. 2, 207-234.
- Jaeger, C., Dürrenberger, G., Kastenholz, H., Truffer, B., 1993. Determinants of Environmental Action with Regard to Climatic Change. *Climatic Change*, 23, pp. 193-211.
- Truffer, B. 1991. Rententheorie und städtische Nutzungsdynamik: Verdichtung, Verdrängung und Durchmischung von Nutzungen aus rententheoretischer Sicht. *Cahiers de l'Institut de Géographie de Fribourg, UKPIK*, 8, pp. 69-90.
- Truffer, B. 1988. Die Unabhängigkeit der Gravitationsmodelle von Regioneneinteilungen. *Cahiers de l'Institut de Géographie de Fribourg, UKPIK*, 6, pp. 79-86.

## Books

- Hoogma, R., Kemp, R., Schot, J., Truffer, B. 2002: *Experimenting for Sustainable Transport. The approach of Strategic Niche Management*. Spon Press, London. pp. 212.
- Knie, A., Berthold, O., Harms, S., Truffer, B. 1999: *Die Neuerfindung urbaner Automobilität. Elektroautos und ihr Gebrauch in den USA und in Europa*. Berlin, Edition Sigma. pp. 106.
- Truffer, B., 1993. *Rententheorie und Nutzungsdynamik: Rententheorie in linearen Produktionsmodellen und ihre Bedeutung für die städtische Nutzungsdynamik, dargestellt am Beispiel der Stadt Zürich 1970-1990*. Dissertation, Universität Freiburg, Schweiz. pp. 288.
- Dürrenberger, G., Ernste, H., Furger, F., Jaeger, C., Steiner, D., Truffer, B., 1992. *Das Dilemma der modernen Stadt: Theoretische Überlegungen zur Stadtentwicklung - dargestellt am Beispiel Zürichs*. Heidelberg, Springer. pp. 141.

## Book chapters in peer reviewed edited volumes (since 2006)

- Truffer, B., 2010. Integrated environmental management of hydropower operation under conditions of market liberalization. In: Bundi (ed.) *Alpine Waters* Springer Verlag, Heidelberg. pp. 227 - 234.
- Bundi U. (ed.) (in cooperation with A. Peter, C. Robinson, B. Schädler, B. Truffer, S. Vollenweider, B. Wehrli, R. Weingartner). 2010: *Alpine Waters*. Volume 6 of *The Handbook of Environmental Chemistry*. Springer Heidelberg, Dordrecht, London, New York, 278 pages.
- Truffer, B. 2010. Sustainability Foresight: participative approaches to sustainable utility sectors. In: R. Frodeman, J. Thompson-Klein, C. Mitchman (eds.) *The Oxford Handbook of Interdisciplinarity*. Oxford University Press, Oxford, New York. pp. 441-2
- Konrad, K., Voss, J.P., Truffer, B. 2008 Sustainable Transformation of German Utilities 2025. In: Giesecke, S., Crehan, P., Elkins S. (Hrsg.) *The European Foresight Monitoring Network*. Collection of EFMN Briefs - Part 1. (EU 23095 EN) Brussels 2008. p. 135-138
- Störmer, E., Ruef, A., Truffer, B. 2008: Regional Infrastructure Foresight. In: Giesecke, S., Crehan, P., Elkins S. (Hrsg.) *The European Foresight Monitoring Network*. Collection of EFMN Briefs - Part 1. (EU 23095 EN) Brussels 2008, p. 453-456
- Truffer, B., Markard, J., Wüstenhagen, R. 2007: Enhancing Customer Demand for Green Electricity — Perspectives of Eco-Labeling in the European Market. Reprinted in Teisl, Mario (ed.) 2007. *Labelling strategies in environmental policy*. (The international library of environmental economics and policy) Ashgate Aldershot and Burlington, pp. 353 - 366
- Störmer, E., Wegelin, C., Truffer, B. 2007. Lokale Systeme unter globalen Einflüssen langfristig planen – ‚Regional Infrastructure Foresight‘ als Ansatz zum Umgang mit Unsicherheiten bei Abwasserinfrastruktursystemen. In: *Technology Assessment in der Weltgesellschaft*, Bora, A., Bröchler, S., Decker, M. (Hrsg.). Edition Sigma, Berlin, pp 123-132.
- Voss, J.-P., Truffer, B., Konrad, K. 2006. Sustainability Foresight. Reflexive governance for the transformation of the utility system. In: Voss, J.-P., Kemp, R., Bauknecht, D. (eds). *Reflexive Governance*. Edward Elgar. 272-315. 162-188.

## Awards

- 2010 Best Paper award at KSI transitions conference in Utrecht for the paper Markard, J., Truffer, B. 2008. Technological innovation systems and the multi-level perspective: towards an integrated framework. *Research Policy*, 37, 596–615.
- 2007 The “Best Paper Award” of the Journal Environmental Modelling and Software in the category “Integrated Modelling”: Reichert, P., Borsuk, M., Hostmann, M., Schweizer, S., Spörri, C., Tockner, K., Truffer, B. 2007. Concepts of decision support for river rehabilitation. *Environmental Modeling and Software*, 22, 188 - 201.
2000. *Winner of the Swiss Transdisciplinarity Award 2000* for “addressing a political hot spot in Switzerland with professional interdisciplinary research as well as a regard for political and economic realities and necessities”. SFr 15'000.-
1993. Doctoral thesis “Rententheorie und Nutzungsdynamik” at the University of Fribourg awarded with summa cum laude.

## Editorships and Reviewing Activity

### *Editorships*

- Associate Editor: *Environmental Innovation and Societal Transitions* (Elsevier) 2010 -
- Guest editor: Special Issue on Transitions Research in *Research Policy* (2011)
- Guest editor: Special Issue on Geography of Transitions in *European Planning Studies* (2011)
- Member of the editorial board of “*Environmental Development*” (Elsevier) 2011 -

### *International peer reviewed academic journals*

California Management Review, Competition and Regulation in Network Industries, Ecological Economics, Economic Geography, Energy Policy, Environment & Planning C, GAIA, Geographica Helvetica, Industry and Innovation, International Journal for Hydrogen Energy, International Journal for sustainable development and world ecology, Journal of Cleaner Production, Journal of Environmental Management, Local Environment, Organization Studies, Research Policy, Science, Technology & Human Values, Socio-Economic Review, Sustainability Sciences, Technological Forecasting and Social Change, Technology Analysis and Strategic Management, Technovation, WZB discussion papers

### *Reviews of book proposals and drafts*

Earthscan, Routledge, Springer, Edward Elgar

### *Scientific commissions, granting institutions, conferences, awards and institutes*

- Expert to National Science Foundations of the Netherlands, Norway, Switzerland, Austria and Germany.
- Reviewer and member of the scientific board of the Swiss Transdisciplinarity Award and the international ReSource Award of SwissRe.
- Expert to peer review assessments of research institutes and university programs in Germany, Austria and the Netherlands.
- Member of the scientific board of a dozen academic conferences.