

Sustainable Energy Systems and Technologies
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Ras Al Khaimah, UAE

Lecturers Biographies

Prof. Christophe Ballif

Christophe Ballif is director of the Photovoltaics and Thin Film Electronics Laboratory at the institute of microengineering (IMT) in Neuchâtel (part of the EPFL since 2009). The lab is active in the fields of thin film silicon, high efficiency heterojunction crystalline cells and module technology. It has a strong experience in technology transfer and industrialization of novel devices. Christophe Ballif graduated as a physicist from the EPFL in 1994, where he also obtained in 1998 his Phd degree working on novel PV materials. He accomplished his postdoctoral research at NREL (Golden, US) on compound semiconductor solar cells (CIGS and CdTe). He worked then at the Fraunhofer ISE (Ge) on crystalline silicon photovoltaics (monocrystalline and multi-crystalline) until 2003 and then at the EMPA in Thun (CH) before becoming full professor at the University of Neuchâtel IMT in 2004, taking over the chair of Prof. A. Shah. He (co-) authored over 180 journal and technical papers, as well as several patents. <http://pvlab.epfl.ch/>

Mr. Ralf Dyllick-Brenzinger

Ralf Dyllick-Brenzinger is a PhD candidate at EPFL's Energy Center. His research work focuses on Energy Policy Management in the Middle East and North Africa. He writes his dissertation under the supervision of Professor Püttgen and Professor Finger in the context of EPFL Middle East's energy innovation program. Prior to his academic assignment, he worked as a management consultant for The Boston Consulting Group in Europe and the Middle East primarily on Financial Services and Energy projects. Ralf Dyllick-Brenzinger holds a graduate degree in business administration and economics of the University of St.Gallen / Switzerland.

Prof. Daniel Favrat

Daniel Favrat graduated from EPFL with a diploma in Mechanical Engineering in 1972 and a PhD in 1976. He then spent more twelve years in industrial energy research centers in Canada and in Switzerland. Since 1988 he is professor at EPFL and director of the Laboratory for industrial energy systems. Since 2001 he was also successively director of the Institute of Energy Sciences and of the Institute of Mechanical Engineering. His primary fields of research and teaching include thermodynamics, the optimization of energy systems, and the design of advanced energy conversion technologies. He is co-author of two books on "Thermodynamics and energy systems analysis ". He is a member of the Swiss Academy of Engineering Sciences, of the French academy of technologies, and the vice-chair of the standing energy committee of the World Federation of Engineering Organisations. He is also a member of the editorial board of several scientific journals, including *Energy* and the *International Journal of Thermodynamics*.

Prof. Matthias Finger

Matthias Finger is since 2002 a Professor of Management of Network Industries at EPFL. Since 2010 he also directs the Transport Area of the Florence School of Regulation at the European University Institute. He holds a PhD in political science from the University of Geneva and has been, before joining EPFL, an Assistant Professor at Syracuse University (New York), an Associate Professor at Columbia University (New York), a professor of Management of Public Enterprises at the Swiss Federal Institute of Public Administration. He is also a member of the Swiss railways as well as the Swiss electricity regulatory authorities. His main research interest is on the liberalization, re-regulation, and governance of infrastructures in the transport, energy, and communications sectors. He is the co-editor in chief of the Journal *Competition and Regulation in Network Industries*.

Fernando Porté-Agel

Fernando Porté-Agel is Professor and director of the Wind Engineering and Renewable Energy Laboratory at the Ecole Polytechnique Fédérale de Lausanne (EPFL) in Switzerland. He completed his engineering degree at the Universitat Politècnica de Catalunya (Spain) in 1992, followed by a Master of Science in from the Institute of Hydraulic Engineering at UNESCO-IHE in Delft (Netherlands) in 1995. He then moved on to the Johns Hopkins University to earn a PhD in Environmental Engineering in 2000. After obtaining his PhD, he joined the faculty of the University of Minnesota in 2000 and was there as Assistant and Associate professor until January of 2010, when he moved to EPFL. His research interests are in environmental fluid dynamics, with emphasis on wind energy. He is member of the editorial board of the journal *Boundary-Layer Meteorology*.

Prof. Hans Björn Püttgen

Hans B. (Teddy) Püttgen is Director of the Energy Center at EPFL (Swiss Federal Institute of Technology in Lausanne) since April 2006. Before that, Professor Püttgen was Georgia Power Professor and Vice Chair for External Affairs in the School of Electrical and Computer Engineering at the Georgia Institute of Technology, (Georgia Tech). At Georgia Tech, he launched the National Electric Energy Test, Research and Application Center, NEETRAC, and served as its Director and Management Board Chair. Later, Teddy Püttgen served as President and CEO of Georgia Tech Lorraine, the European campus of Georgia Tech located in France. He graduated from the Swiss Federal Institute of Technology in Lausanne, EPFL. He also holds graduate degrees in Business Administration and Management from the University of Lausanne. His PhD, in Electrical Engineering is from the University of Florida. Teddy Püttgen, who is a Fellow of IEEE, served as President of the Power Engineering Society of IEEE in 2004 and 2005.