Curriculum Vitae

born on Nov. 3rd 1964 in Braunschweig, german nationality

Present Research interests:

Renewable energy - Photovoltaic & PowerToGas, Nanostructures and catalysts, Plasma technology, surface treatment, PECVD, process technology, short pulse laser applications in material treatment

Professional career

since 09/2010	HES-SO Valais, Sion, Professor for Physics
01/08 – 09/10	*Oerlikon Solar,* Responsable of reactor development group, components & plasma processes for deposition & cleaning, 3rd level customer support, development laboratory, 23 group members
07/03 – 12/07	SBU Solar in *Unaxis Displays, later: Oerlikon Solar*, technical responsibility for the development of the 40MHz technology for large area thin film Silicon deposition (PECVD) for amorphous and microcristalline solar cells, Installation of the PECVD laboratory technically & personally, gatekeeper for solar patents, support of customer projects
02/00 - 06/03	TiNOx GmbH R&D, production of highly selective thin film coatings for the solar thermal industry
09/98 – 01/00	Marie-Curie stipend of the European Community at the *Commissariat à l'Energie Atomique à Saclay*, Paris High intensity femtosecond-lasers, production and diagnostics of nanoplasmas of clusters in ultrahigh vacuum
09/96 – 08/98	*National Research Council, Ottawa*, Canada, Alexander-von-Humboldt-Stipend, design and setup of new measuring apparatus for position and time sensitive detectors, programming of data taking system, operation of femtosecond-lasers
02/96 – 08/96	*Commissariat à l'Energie Atomique à Grenoble*, France Design of plasma based metal cluster gas aggregation source, Computer simulation of clusters
06/95	PhD thesis, magna cum laude
08/91 – 12/95	*University of Freiburg*, teaching assistantship *Influence of size, temperature and background potential on the optical resonances of small sodium clusters*
06/90 – 05/91	*Max-Planck-Institute for Nuclear Physics, Heidelberg*, scientific assistant, *Construction of and first experiments with an induction accelerator at the ion storage ring TSR*
09/89 – 01/91	Diploma thesis, Max-Planck-Institute Heidelberg

Sion, 16 October 2015

Selected Publications:

Ch. Ellert, *Cellules solaires en silicium réalisées en technologie "couche mince"*, Bulletin ElectroSuisse, 3/2011, pp. 32-37

Ch. Ellert, C. Wachtendorf, M.Klindworth, A. Hedler, M.Martinek, *Influence of Raman crystallinity on the Performance of micromorph tandem solar cells*, Solar Energy Materials and Solar Cells.Volume 96, 2012, pp. 71-76

A. Taha, D. Chaudhary, M. Klindworth, F. Leu, J. Martin, A. Salabas,
W. Wieland, D. Zorzi, C. Ellert, *Advanced PECVD Reactor for Thin Film Solar Application*, Postersession 3AV.2.40, 25th PVSEC, Valencia, Sept. 2010

M. Klindworth, C. Goury, S. Jost, A. Salabas, A. Stoeckle, A. Taha, G. Tipaka
C. Ellert, *Layer Properties in PECVD Reactor for Micromorph Solar Modules*, Postersession, 3AV.2.45, 25th PVSEC, Valencia, Sept. 2010