

## 8<sup>th</sup> Empa-PSI Ph.D. students day

Friday, 28<sup>th</sup> November 2008

Paul Scherrer Institut, CH-5232 Villigen-PSI  
 room OVGA/407 (administration building PSI East)

### Program

	09:30 - 09:40	Welcome A. Weidenkaff & T. Lippert
	09:40 - 10:00	<i>Plasma plume characterization</i> Martin Esposito, PSI
Session 1	10:00 - 10:20	<i>Composition and crystal structure of La-Ti-O-N and Sr-Mo-O-N thin films deposited by PRCLA</i> Ivan Marozau, PSI
	10:20 - 10:40	<i>Investigations of STO:N surfaces by AFM and angle-resolved XPS</i> Andrey Shkabko, Empa
	10:40 - 11:00	Coffee break
Session 2	11:00 - 11:20	<i>Liquid water constraints in micro polymer electrolyte fuel cells without gas diffusion layer</i> Bernhard Seyfang, PSI
	11:20 - 11:40	<i>PLD-grown thin films of Y-doped ZrO<sub>2</sub>: from glassy to crystalline state</i> Sebastian Heiroth, PSI
	11:40 - 12:00	<i>Preparation and characterization of Li<sub>1+x</sub>Mn<sub>2</sub>O<sub>4-δ</sub> films on different modified substrate materials</i> Franziska Simmen, PSI

	12:00 - 13:30	Lunch break at PSI restaurant OASE
Session 3	13:30 - 14:15	Invited presentation, <i>Dynamics of electron transfer processes in dye-sensitized solar cells</i> Prof. Jacques - E. Moser, EPFL
	14:15 - 14:35	<i>The motivation for laser-induced forward transfer</i> James Shaw-Stewart, Empa-PSI
	14:35 - 15:00	Coffee break
	15:00 - 15:20	<i>Laser-induced forward transfer investigated by time-resolved shadowgraphy</i> Romain Fardel, Empa-PSI
Session 4	15:20 - 15:40	<i>Application and development of thermoelectric materials</i> Petr Tomes, Empa
	15:40 - 16:00	<i>Microstructural studies of potential thermoelectric manganate phases</i> Laura Bocher, Empa
	16:00 - ...	Discussions
	18:30 - ...	Dinner