

# Program of the Sixth Sollab Doctoral Colloquium

<b>Monday, 7 June 2010</b>		
8h30-9h00	<b>Welcome and Presentation</b>	
	<b>Solar fuels</b>	
9h00-9h25	Solar syngas production from H <sub>2</sub> O and CO <sub>2</sub> via two-step thermochemical cycles based on Zn/ZnO and FeO/Fe <sub>3</sub> O <sub>4</sub> redox reactions: kinetic analysis	Anastasia STAMATIOU
9h25-9h50	Coproduction of Hydrogen and Carbon Black from Natural Gas Cracking under Concentrated Solar Radiation	Sylvain RODAT
9h50-10h05	Optical analysis of a solar concentrating facility for the design of a solar cavity receiver	Thomas COOPER
10h05-10h20	Design of a 100 kW reactor for the solar thermal dissociation of ZnO	Willy VILLASMIL
10h20-11h00	<b>Coffee break</b>	
	<b>Solar electricity and energy storage</b>	
11h00-11h25	Modelling of Concentrating Solar Thermal Power system based on Linear Fresnel Reflector for Cogeneration	François VEYNANDT
11h25-11h40	Solar particle receiver for small gas turbines	Wei WU
11h40-12h05	Modeling a Free Falling Particle Receiver	Birgit GOBEREIT
12h05-12h30	Outdoor characterization and performance evaluation of CPV mini-modules	Loïc PUJOL
12h30-14h00	<b>Lunch</b>	
	<b>Solar components</b>	
14h00-14h25	Development of a solar receiver for a thermoacoustic cooler system	Sophie CORDILLET
14h25-14h50	Optimizing operations of an open volumetric air receiver	Nils AHLBRINK
14h50-15h15	Experimental and Numerical Analyses of a Novel Pressurized Air Receiver for Concentrated Solar Power	Illias HISCHIER
15h15-15h45	<b>Coffee break</b>	
15h45-17h45	<b>Themis Visit</b>	
18h00-19h30	<b>Natural warm bath-Dorres</b>	
19h30	<b>Barbecue</b>	

<b>Tuesday, 8 June 2010</b>		
	<b>Solar components</b>	
9h00-9h25	Thermal Dispersive Effects in Sintered Metal Foams	Stefan BRENDLBERGER
9h25-9h50	Experimental and numerical study of a concentrated solar fluidized bed receiver	Germain BAUD
9h50-10h15	Simplified method for the geometrical optimization of a solar thermochemical reactor. Application to a real case.	Stefania TESCARI
10h15-10h30	radiation effect on the fatigue of metal tube receivers.	Eneko SETIEN
10h30-11h00	<b>Coffee break</b>	
	<b>Solar fuels</b>	
11h00-11h25	A lab-scale solar reactor for thermal dissociation of compressed ZnO and SnO <sub>2</sub> powders as part of 2-step thermochemical cycles	Marc CHAMBON
11h25-11h40	Dynamic modeling of a two step thermochemical water splitting process Preliminary considerations and objectives	Matthias LANGE
11h40-12h05	Development of mixed metal oxides for thermochemical hydrogen production from solar water splitting	Alex LE GAL
12h05-12h30	Solar Steam Reforming of Methane using Molten Salts as heat carrier	Isabelle LABACH
12h30-14h00	<b>Lunch</b>	
	<b>Solar resources</b>	
14h00-14h15	Retrival of circum solar radiation parameters from Meteosat Second Generation observations	Bernhard REINHARDT
14h15-14h40	Effect of Circumsolar Radiation on Focusing Collectors. Determination of the Usable DNI from Common DNI Measurements	Stephan WILBERT
	<b>Solar fuels</b>	
14h40-15h05	Development and evaluation of a two step thermochemical cycle for hydrogen generation	Jan SÄCK
15h05-15h30	Modelling and Simulation of the Hybrid Sulphur Cycle	Nicolas BAYER BOTERO
15h30-16h00	<b>Coffee break</b>	
	<b>Solar electricity and energy storage</b>	
16h00-16h25	Numerical and experimental study of a distributor configuration for uniform flow distribution in an elemental absorber of air solar receiver	David BELLARD
16h25-16h50	Modeling and conception of a solar receiver carrying pressurized air for the PEGASE project	Benjamin GRANGE
16h50-17h15	The once through concept in parabolic trough plants with direct steam generation	Fabian FELDHOF
17h30-19h30	<b>Sports</b>	
20h00	<b>Dinner</b>	

<b>Wednesday, 9 June 2010</b>		
	<b>Solar electricity and energy storage</b>	
8h30-8h55	Experimental investigations on thermoelectric solar cavity receiver	Clemens SUTER
8h55-9h20	Optimized Operation Strategies for Solar Trough Power Plants with Integrated Storage	Michael WITTMANN
9h20-9h45	Sustainable thermal storage material for CSP tested under concentrated solar flux	Antoine MEFFRE
9h45-10h10	Assessment of a novel direct absorption receiver for solar towers and USC steam cycles	Csaba SINGER
10h10-10h35	Pressurized receiver in ceramic in order to heat air at high temperature	Xavier DAGUENET
10h35-11h05	<b>Coffee break</b>	
	<b>Solar detoxification and desalination</b>	
11h05-11h30	Solar photocatalytic reactor experimental and modelisation results	Franck CORREIA
11h30-11h55	Preliminary assessment of a solar driven membrane distillation desalination system	Elena GUILLÉN BURRIEZA
11h55-12h20	Treatment of municipal waste water effluents with modified solar photo-Fenton	Nikolaus KLARMETH
12h20-12h45	Steady State Mathematical Modeling of a Solar Multi-effect Distillation Plant at the Plataforma Solar de Almería	Patricia PALENZUELA ARDILA
12h45-14h00	<b>Lunch</b>	
	<b>Solar components</b>	
14h00-14h25	Methods to characterize the degradation of solar reflectors	Florian SUTTER
14h25-14h50	An air based cavity receiver for solar trough concentrators	Roman BADER
14h50-15h05	DSG in Parabolic Trough Study of Pressure Drop	David HERNANDEZ LOBON
15h05-15h30	Optimization of PTC Concentrator Geometry based on Optical Shape Measurements	Siw MEISER
15h30-16h00	<b>Coffee break</b>	
16h00-18h00	<b>Solar Furnace Visit</b>	
18h00	<b>Free time</b>	