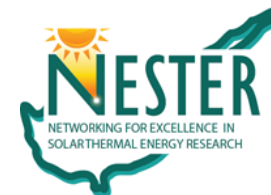


# Week 1: General topics



	Tue, Nov 7	Wed, Nov 8	Thu, Nov 9	Fri, Nov 10	Sat, Nov 11
09:00-09:45	General introduction to CSP and CST technologies [ENEAE]	Central Receivers [Cyl]	The Case for Cogeneration [Cyl]	Basics of CSP economics [Cyl]	Field visit TbD [Cyl]
09:45-10:30	Role of CST in the energy system of the future [Cyl]	Solar Energy Harvesting with Heliostats [Cyl]			
10:30-11:00					
11:00-11:45	Solar Resource [RWTH]	Linear Fresnel [Cyl]	Alternative applications for CST energy [ENEAE]	Outlook on research and commercial projects/ future perspectives [Cyl]	
11:45-12:30		Solar Dishes [ENEAE]			
12:30-13:30					
13:30-14:15	Parabolic Troughs [CNRS]	Power cycles for CSP plants [CNRS]	Visit of LFR plant [Cyl]	Activity: Solstice Tutorials(*) [CNRS]	
14:15-15:00					
15:00-15:30					
15:30-16:15	Activity: Simulation of PT power plant with SAM(*) [CNRS]	Activity: Simulation of solar tower power plant with SAM(*) [CNRS]	Activity: Presentation/installation of the software Solstice (*) [CNRS]	Visit of Pentakomo facility [Cyl]	
16:15-17:00					

Lecture

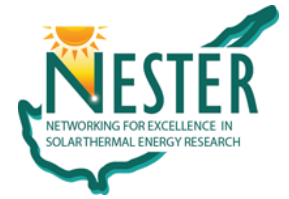
Hands-on activity

Technical visit

Social Programme

(\*) Laptop required

# Week 2: Thermal Energy Storage



	Mon, Nov 13	Tue, Nov 14	Wed, Nov 15	Thu, Nov 16	Fri, Nov 17
09:00-09:45	Introduction to TES for CST plants [ENEAE]	Thermoclines : general concepts and integration in a CSP plant [CIEMAT]	Phase change materials [CIEMAT]	Thermochemical energy storage [CIEMAT]	
09:45-10:30					
10:30-11:00					
11:00-11:45	Molten salts as TES medium: physico-chemical aspects and compatibility with structural materials [ENEAE]	Modeling of single tank, packed bed thermocline TES [CIEMAT]	Equipment, design, optimization and integration of latent heat TES systems [CIEMAT]	Optimization of TES scheduling [RWTH]	
11:45-12:30					
12:30-13:30					
13:30-14:15	Design of molten salt TES Systems [ENEAE]	TES in concrete [ENEAE]	Very high temperature TES [Cyl]	Wrap-up and school closing [Cyl]	
14:15-15:00				Final assessment [Cyl]	
15:00-15:30					
15:30-16:15	Presentation of research projects by PhD candidates	Afternoon activities TbD	Afternoon activities TbD		
16:15-17:00					

Lecture

Hands-on activity

Technical visit

Social Programme