

SFERA-III Summer School-2021

Almería (Spain), October 5th-6th, 2021

Solar Process Heat Applications and Water Solar Desalination

October 5th: “Solar Heat for Industrial Processes (SHIP)”

Time	Lecture	Speaker
09:00 – 09:15	Opening of Summer School 2020	E. Zarza / J. Blanco
09:15 - 10:00	SHIP applications at-medium temperatures	Dirk Krueger
10:00 - 10:45	Solar steam generation for SHIP applications	Eduardo Zarza Moya
10:45 - 11:15	Coffee break	
11:15 - 11:45	SHIP applications at high temperatures	Alfonso Vidal Delgado
11:45 - 12:30	Thermal storage for SHIP applications	Esther Rojas Bravo
12:30 - 13:00	R+D lines for Medium temperature SHIP applications	Mario Biencinto Murga
13:00 - 14:30	Lunch break	
14:30 - 15:15	Innovative design of a linear Fresnel concentrator for Process Heat Applications	Loreto Valenzuela Gutiérrez
15:15 - 15:45	The new Task 64/IV of SHC and SolarPACES	E. Zarza
15:45 - 16:15	Coffee break	
16:15 - 16:45	SHIPs applications within the updated Implementation Plan of CSP	Julián Blanco Gálvez
16:45 -17:30	Market potential for SHIP applications	Valery Vuillerme
17:30	End of the first day	

October 6th: “Solar Heat for Industrial Processes (SHIP) and Water Desalination”

Time	Lecture	Speaker
09:00 -10:00	Influence of the system design on the pay-back time and solar fraction of SHIP applications	Miguel Frasset Herraiz
<u>Solar Thermal Desalination</u>		
10:00 - 10:40	Fundamentals of water desalination	Diego C. Alarcón Padilla
10:40 - 11:10	Coffee break	
11:10 - 11:50	Overview of thermal desalination processes	Diego C. Alarcón Padilla
11:50 - 12:30	Solar thermal cogeneration plants	Patricia Palenzuela Ardila
12:30 - 13:00	Advanced control of solar process heat applications	Lidia Roca Sobrino
13:00 - 13:15	Closing of Summer School 2021	E. Zarza
13:15 - 14:45	Lunch break	
15:00 - 19:30	Visit to PSA facilities	