

DOCTORAL COLLOQUIUM

Monday

09:00–09:30	Registration Participant check-in
09:30–09:45	Welcome The Cyprus Institute
09:45–10:00	EU-SOLARIS Presentation
10:00–11:00	Participant Introductions Self-introductions of all attendees
11:00–11:30	Coffee Break
11:30–12:30	Line-Focusing Systems & Field Performance Chair: Lidia Roca • 11:30–11:50: Toward predictive modeling of molten-salt drainage in parabolic-trough CSP systems – Anas Martini • 11:50–12:10: A hybrid beam-down linear Fresnel concentrator for heat and electricity production – Christos Sammouris • 12:10–12:30: The influence of angle of incidence on soiling measurements – Rolando L. Cabrera-Dalés
12:30–13:00	Open Discussion
13:00–14:00	Lunch
14:00–15:40	Point-Focusing Systems & Solar Resource: Heliostats, Optics, Receivers, Nowcasting Chair: Kypros Milidonis • 14:00–14:20: Wind loads on heliostats: determining dynamic amplification – Lukas Jäger • 14:20–14:40: Design and optimization of the optical systems for a beam-down concentrated solar power plant – Alan Giocoli • 14:40–15:00: Design optimization of an open volumetric air receiver via CFD analysis of porous absorber and passive flow regulation system – Laura C. Alonso Pardo • 15:00–15:20: Design of experiments for the development and optimization of SiC/Al ₂ O ₃ multilayer coatings for high-temperature CSP receivers – Thiane Ndiaye • 15:20–15:40: Multi-modal generative video prediction of all-sky and MSG/MTG satellite imagery for solar irradiance nowcasting – Milon Miah
15:40	End of Day 1

Tuesday

09:00–10:40	Solar Thermochemical Redox & Electrolytic Processes Chair: Chara Poravou • 09:00–09:20: Techno-economic optimization of fuel production from solar thermochemical redox cycles – Kira Wehner • 09:20–09:40: Tail gas recirculation for fuel production via solar thermochemical redox cycles – Nico Kleemeyer • 09:40–10:00: Parametrized thermomechanical modelling of ceramic redox geometries under transient heating for thermochemical fuel production – Kristina Lampe • 10:00–10:20: Electrically assisted thermochemical redox processes for thermal energy storage with doped perovskite metal oxides – Nora Katharina Korber • 10:20–10:40: Investigation of catalyst anodic structures for SO ₂ depolarised electrolysis for hydrogen production – Maria Antonietta Lopardo
10:40–11:00	Open Discussion
11:00–11:30	Coffee Break
11:30–13:00	Thermochemical Storage, Commodities & Biofuels Chair: Martin Roeb • 11:30–11:50: Structured iron oxide-based catalysts for solar-driven sulphur trioxide splitting in sulphur-based thermochemical energy storage cycles – Georgia Skyfta • 11:50–12:10: Clay calcination with renewable energy – Leonhard Kölz • 12:10–12:30: Temperature control in ammonia synthesis reactors using silicone oil-based heat transfer fluids – Benedikt von Rappard • 12:30–12:50: Solar-assisted hydrothermal liquefaction of microalgae and oleaginous yeast for the production of sustainable biofuels – Nikolaos Christodoulou • 12:50–13:00: Session wrap-up
13:00–14:00	Lunch
14:00–15:00	Bus Transfer to PROTEAS The Cyprus Institute > PROTEAS facility, Pentakomo
15:00–17:30	PROTEAS Visit Presentation, guided tour
17:30–18:30	Group Photo at Sunset (Around 18:06) PROTEAS heliostat field
18:30–21:00	Dinner at I Folia tou Drakou, Pentakomo Short transfer from PROTEAS
21:00–22:00	Bus Transfer to Nicosia Hotels
22:00	End of Day 2

Wednesday

09:00–10:20	Thermal Energy Storage, Power-to-Heat & Hybridisation Chair: Patricia Palenzuela • 09:00–09:20: Integration of thermal storage in a packed bed using waste materials for power-to-heat applications in Mediterranean industries – Andrea Centeno • 09:20–09:40: Assessment of electrified metallic PCM storage system strategies under different orientations – Hussein A. I. Al-Saadi • 09:40–10:00: Annual assessment of a novel integrated system combining photovoltaics, compressed air energy storage, reverse osmosis and concentrated solar power – Aarón R. Poyatos Bakker • 10:00–10:20: Multiscale design of a modular hybrid PV-CST architecture – Nicolas Passarelli
10:20–11:00	Open Discussion
11:00–11:30	Coffee Break
11:30–13:00	Solar Heat for Industry & Water Chair: Marios C. Georgiou • 11:30–11:50: Application of solar-driven advanced oxidation processes for aquaculture wastewater treatment at neutral pH – Houda Mhedhbi • 11:50–12:10: Solar-chlorine disinfection of simulated aquaculture effluent at lab-pilot scale – Aysha Hasanazade • 12:10–12:30: Brine concentration by multi-effect solar distillation – Robinson J. Ramírez Gil • 12:30–13:00: Session wrap-up
13:00–14:00	Lunch
14:00–14:20	SOLARIZE Award Talks 1 × 20 min
14:20–14:40	Closing of Doctoral Colloquium EU-SOLARIS Annual Awards Final remarks
14:20–18:00	Free Time
18:00–19:30	Guided Tour of Nicosia
19:30–22:30	Gala Dinner Kathodon
22:30	End of Day 3

SUMMER SCHOOL

Thursday Storage, Hybridisation & Polygeneration

08:45–09:00	Registration Participant check-in
09:00–09:20	Welcome Introduction to the Summer School
09:20–11:00	Lectures • 09:20–10:10: Industrial decarbonisation via PV and thermal energy storage hybridisation: the GREENOLIVE project case study - M. Rodríguez García - CIEMAT-PSA • 10:10–11:00: Energy system optimization for hydrogen and thermal energy storage integration in future power systems - R. El Cadi - Univ. Évora / SOL4R
11:00–11:20	Coffee Break
11:20–13:00	Lectures • 11:20–12:10: Exploring complementarity between wind and solar PV generation: assessing the technical and economic value of hybridising wind power plants - António Couto - LNEG • 12:10–13:00: CSP–PV hybrid technology concepts - Robert Pitz-Paál - DLR
13:00–14:00	Lunch
14:00–15:40	"Lectures" • 14:00–14:50: Polygenerating solar collectors - João Cardoso - LNEG • 14:50–15:40: Optimization and modeling of spectral-splitting coatings for compact PV/CST hybrid systems: a researcher's perspective - Antoine Grosjean - EPF
15:40	End of Day 1

Friday CST, Solar Fuels & Water

09:00–10:40	Lectures • 09:00–09:50: Heliostat field innovation - Kypros Milidonis - Cyl • 09:50–10:40: Methods, materials and components for thermochemical fuel and commodity production - Martin Roeb - DLR
10:40–11:00	Participant Feedback Survey
11:00–11:20	Coffee Break
11:20–13:00	"Lectures" • 11:20–12:10: Insights on solar assisted thermochemical processes for advanced biofuels production and hybridization potential - C. Poravou - CERTH • 12:10–13:00: Concentrated solar thermal for desalination and brine valorization: from heat integration to resource recovery - Ayoub Bouazza - Cyl
13:00–13:10	Closing of Summer School
13:10–14:00	Lunch
14:00	End of Summer School

3rd EU-SOLARIS Doctoral Colloquium & 2nd EU-SOLARIS Summer School

The Cyprus Institute
Nicosia, Cyprus
19–23 October 2026

SOLARIZE