

BIP General presentation
Solar energy for buildings: from components to cities

General Information
<p>Dates for physical activity: From 19th at 16h00 to 24th 17h30 of November 2023</p>
<p>Proposed period for virtual component:</p> <p>VIRTUAL COMPONENT</p> <ul style="list-style-type: none"> ▪ October – Beginning of November 2023 (asynchronous activity) ▪ Fall semester 2023 – participation to UNITA Weekly Talks on Renewables Energies ▪ 2 synchronous meetings 1.5 hours during the month of October/November (dates to be confirmed in September) <p>INTENSIVE WEEK AT USMB</p> <p>From 19th to 24th of November 2023, this includes:</p> <ul style="list-style-type: none"> ▪ Arrival on the 19th of November to Chambéry meeting at 16h in city-center. (travel from home, accommodation on 19th and dinner on 19th on your own (book and pay), using Erasmus + travel grant) ▪ 20th – 24th : week at Yenne (Clos des Capucins), shared with international Scientists – accommodation, meals and transportation provided by organizers ▪ 24th coming back to Chambéry from Yenne, transportation provided by organizers ▪ 24th at 18h travel back (on your charge: book & pay on your own, using Erasmus + travel grant), eventual additional accommodation on your own (book & pay)
<p>Location of physical activity: France, Le Bourget-Du-Lac (close to Chambéry, access in public transportation), followed by Yenne in the pre-Alps</p>
<p>Target audience / Participant profile: Master students, PhD students</p>
<p>No. of ECTS issued: 3 ECTS</p>
<p>Language of instruction and requirements English (B2)</p>
<p>Requirements/Prerequisites:</p> <ul style="list-style-type: none"> - Basic background in engineering or physical sciences, - General knowledge about solar energy,

Organizing board : All UNITA universities can send students

Host university	UNITA partner 1	UNITA partner 2	UNITA partner 3
USMB	UNITO	Univ. Zaragoza	Univ. West Timisoara
Ass. Prof. Julien Ramousse (Julien.ramousse@univ-smb.fr)	Prof. Nadia Barbero (nadia.barbero@unito.it)	María Paz Comech, (mcomech@unizar.es)	Prof. Nicoleta Stefu (nicoleta.stefu@e-uvt.ro)

Program

Title :

Solar energy for buildings: from components to cities

Short description: The SUN2C scientific school addresses solar energy applications from a technical point of view. A massive deployment of the use of solar energy is inevitable in order to decarbonate the energy sector. This implies to multiply by 5 to 10 the actual capacity in coming years. This can only be achieved through a holistic planning of the deployment of the solar energy.

SUN2C aims to participate both in the dissemination of knowledge and the state of the art, but also in the popularization of advances in the following themes:

- Development of materials, components and systems for capturing and converting solar energy (Photovoltaic, Solar Thermal, etc.)
- Innovative technologies for the integration of clean energy in existing or new buildings
- Analysis and design of integrated solar buildings in cities (solar urban development)

All these themes will be addressed in the form of educational and accessible presentations to all up to more advanced presentations, through lectures. Workshops will be spread over the week, encompassing the different scales covered and the associated scientific themes, to allow the participants to apply their knowledge to specific case studies.

Proposed preliminary schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
	Visits	Lecture – Material	Lecture – Solar technologies	Lecture – Building integration	Lecture – Solar cities
08h – 10h	INES LOCIE LEPMI	Material and architecture	PV & ST	BIPV	Solar cadaster
10h-10h30		Coffee break			
10h30 – 12h30		Durability, aging	Hybridization	Intermittency management	Energy networks
12h30-14h	Lunch				
	Lecture – Ressource solaire	Workshop	Workshop	Workshop	Lecture – Prospectives
14h – 16h	Caracterization	Rotating workshop	Rotating workshop	Rotating workshop	Métabolisme urbain
16h-16h30	Coffee break				
16h30-18h30	Variability	Rotating workshop	Rotating workshop	Rotating workshop	Return
18h30 – 19h30	Posters			Closing cocktail	
19h30-21h	Dinner				

Friday 18th, 16h – coming back to Chambéry at 17h30.

More information about the program coming soon at [Solar Academy Web Page](#)

Application procedure

Requirements:

- Master students, PhD students, with background in engineering or physical sciences...
- Interest in solar energy,
- Equivalent B2 level in English

ESTUDIANTES DE LA UNIVERSIDAD DE ZARAGOZA

Nº de ayudas: 5

Requisitos:

Estudiantes de la Universidad de Zaragoza matriculados en el curso 2023-2024 en estudios oficiales de máster o doctorado en Ingeniería o en Ciencias Físicas con conocimiento de inglés de nivel B2 acreditable (Cf. base 4.3 de la convocatoria).

Solicitud: Disponible desde la URL: sede.unizar.es a través del Servicio “Gestión de solicitudes (SOLICIT@)”

Seleccionar en el menú “Opciones” > “Iniciar Nueva Solicitud”

Identificarse con NIP + contraseña administrativa

En la opción “Catálogo de solicitudes clasificadas por categorías”, elegir “Estudiantes de Grado, Máster, Doctorado, etc”.

Seleccionar el formulario “Programas Intensivos Combinados –BIP-“

Documentación a aportar :

Acreditación de conocimiento de nivel B2 de inglés

Plazo de solicitud: hasta el 29 de septiembre