

Summer School on III-Sb applications: Solar Cells

11-15 July, 2022



Universidad Politécnica de Madrid (UPM)



We kindly invite you to attend the **Summer School on III-Sb applications: Solar Cells** to be held at UPM on July 11th-15th 2022. Renowned experts in the field of photovoltaics will present tutorials and talks introducing the fundamentals of the field, its challenges and the most recent advances in key areas covering Silicon, III-V and multi-junction solar cells and emerging technologies.

The school is organized and funded by the European H2020 Project [QUANTIMONY: Quantum Semiconductor Technologies Exploiting Antimony \(MSCA-ITN-2020-956548\)](#), an innovative training network fostering industrial and academic research across Europe in quantum semiconductor materials for Telecomm, Datacomm and Photovoltaics. QUANTIMONY Summer School on photovoltaics aims to provide training and insight into the fundamentals of photovoltaics and the role of antimonides to all interested researchers from your institution.

We hope to see you there!

José M. Ulloa (Event organizer, UPM)

Benito Alén (Quantimony Network Coordinator, CSIC)

List of Confirmed Speakers

Invited Speakers:

- **Prof. Carlos Algora**, Solar Energy Institute, UPM (Inaugural talk)
- **Prof. Franz-Josef Haug**, PV-lab, École polytechnique fédérale de Lausanne (EPFL), Switzerland (Invited 1)
- **Prof. Stephane Collin**, Centre de Nanosciences et Nanotechnologies (C2N), CNRS, France (Invited 2)
- **Prof. Ned Ekins-Daukes**, University of New South Wales Sydney, Australia (Invited 3)

Topical talks:

- **Prof. Mircea Guina**, Optoelectronics Research Center, Tampere University, Finland (Topical 1)
- TBA (Topical 2)
- TBA (Topical 3)
- **Dr. Íñigo Ramiro**, Universidade Nova de Lisboa, Portugal (Topical 4)

Tutorials:

- **Dr. Victor López Richard**, Universidade Federal de Sao Carlos, Brazil (Tutorial 1)
- **Dr. Urs Aeberhard**, Fluxim AG, Switzerland (Tutorial 2)
- **Dr. Jerónimo Buencuerpo**, L'Institut Photovoltaïque d'Ile-de-France (IPVF), France. Centre de Nanosciences et Nanotechnologies (C2N), CNRS, France (Tutorial 3)
- **Dr. Diego Alonso**, Imperial College London, UK (Tutorial 4)

Event schedule

The 5-day event will start on Monday (11th) morning and finish on Friday (15th) by lunch time. The sessions are organized in two different schedules, as shown in the tables of the attached agendas.

Table 1. There will be tutorials and invited and topical talks in the mornings from Monday to Thursday open to all attendants, online and onsite.

Links to attend online these sessions will be provided to registered attendants via email few days before the event.

Table 2. The practical laboratory sessions in the afternoons, the simulation trainings on Thursday and Friday as well as the social activity and the gala dinner are intended only for QUANTIMONY consortium members. Four groups (G1-G4) will be organized for the laboratories.

Registration procedure and deadlines

Registration is mandatory and shall be done in the following [link](#) before June 22nd for on-site attendance and June 30th for online attendance.

Table 1. Agenda for all attendants

	Monday 11		
09:45-10:00	Welcome		
10:00-11:00	Inaugural		
11:00-11:45	Topical 1		
11:45-12:15	Coffee Break		
12:15-13:00	Tutorial 1		
13:00-13:45			
	Tuesday 12	Wednesday 13	Thursday 14
09:30-10:30	Tutorial 2	Tutorial 3	Invited 3
10:30- 11:30			Tutorial 4
11:30-12:00	Coffee Break		
12:00-12:45	Invited 1	Invited 2	Tutorial 4
12:45-13:30	Topical 2	Topical 3	Topical 4

Table 2. Training Activities only for Quantimony members

		Monday 11	Tuesday 12	Wednesday 13	Thursday 14	Friday 15
Morning sessions	10:30-11:30					Simulation 2 G1, G2, G3, G4
	11:30-12:00	Coffee break				
	12:00-13:30					Simulation 2 G1, G2, G3, G4
	13:30-14:30	Lunch				
Afternoon sessions: Lab sessions and social activities	14:30-16:30	* Solar cell growth - G1 * Solar cell fabrication - G2 * Solar cell characterization I – G3 * Solar cell characterization II – G4	* Solar cell growth – G3 * Solar cell fabrication – G4 * Solar cell characterization I – G1 * Solar cell characterization II – G2	Social activity	Simulation 1 G1, G2, G3, G4	
	16:30-18:30	* Solar cell growth – G2 * Solar cell fabrication – G1 * Solar cell characterization I – G4 * Solar cell characterization II – G3	* Solar cell growth – G4 * Solar cell fabrication – G3 * Solar cell characterization I – G2 * Solar cell characterization II – G1			
	20:30				Gala Dinner	