



CLP DAY

Green Tech and the Energy Transition

Friday April 22, 2022

For further information, visit www.icfo.eu

PROGRAM

9:00-9:20 Registration

9:20-9:40 Welcome

Session 1

9:40-10:20 **Unlocking the sustainable future with renewable fuels and chemicals**
Dr. Joanna Kargul
SUNERGY, Executive Board Member

10:20-11:00 **The role of hydrogen in decarbonising the economy**
Dr. Pere Margalef
CTO Hydrogen, Snam

11:00-11:30 Coffee Break

Session 2

11:30-12:10 **Building molecules to fight climate change**
Dr. Pelayo García de Arquer
CO₂ Mitigation Accelerated by Photons Group Leader, ICFO

12:10-12:50 **Role of perovskite PV in the energy transition**
Dr. Laura Miranda
Head of Materials Research, Oxford PV

12:50-13:30 **Efficiently & aesthetically helping buildings to produce their own clean energy**
Rafic Hanbali
CEO, SwissINSO

13:30-15:00 Networking Lunch

14:30-17:00 Scheduled meetings



SPEAKERS



Dr. Joanna Kargul-Executive Board Member, SUNERGY

Joanna obtained a PhD in Biological Sciences in 1999 from the University of Warwick, UK, followed by a postdoctoral research stay in the group of James Barber at Imperial College London. She is university professor in solar conversion at University of Warsaw and Head of the Laboratory of Solar Fuels at the Centre of New Technologies, where she applies the fundamental knowledge of oxygenic photosynthesis for construction of biohybrid solar-to-fuel devices. Prof. Kargul is also a member of SUNERGY's Executive Board.



Dr. Pere Margalef-CTO Hydrogen, Snam

Pere obtained a PhD from the University of California at Irvine in Mechanical & Aerospace Engineering in 2010. From 2012-2021, he worked for FuelCell Energy as business developer for USA/EU. Since 2021, he is CTO of hydrogen at Snam SpA, where he is in charge of fostering and bringing disruptive hydrogen technologies into the company's ecosystem. Pere is also part-time professor at UPC and serves as the Industry Leader of the 'Heat & Power & Industrial Decarbonation' group at Hydrogen-Europe.



Dr. Pelayo García de Arquer -CO2MAP Group Leader, ICFO

Pelayo earned his PhD from ICFO followed by a post-doctoral stay at the University of Toronto, where he explored the use of perovskites & quantum dots to control energy transfer at the nanoscale. Soon, he turned his attention to hydrogen storage and CO₂ electroreduction, where he advanced in the understanding and performance of catalysts and reactor design. Since 2021, he leads a research group focusing on the conversion of CO₂ into renewable fuels and chemicals using clean energy.



Dr. Laura Miranda - Head of Materials Research, Oxford PV

Laura obtained her PhD from Universidad Complutense de Madrid on 2010, followed by a research fellowship at Université Pierre et Marie Curie. On 2012, she joined the Materials department at Oxford University, developing perovskite-based systems for Li-battery electrodes. Since 2014, Laura has been working for Oxford PV, a leading company in perovskite solar cell development and commercialization, where she acts as Head of Materials Research leading industrial R&D and technology transfer efforts.



Rafic Hanbali - CEO, SwissINSO

A physicist by academic training, Rafic has developed an aptitude for identifying and developing technology-based business opportunities, building a number of successful companies over the past 30 years. Currently, he is the president of SwissINSO, a company that develops and manufactures a patented solar technology called Kromatix originally developed at EPFL. Rafic also acts as managing partner of Emirates Insolaire in Dubai.

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