

SolarPowerExpo

Community

Community Newsletter

Issue 1 – 2023

SolarPowerExpo Community

Welcome to the 1st edition of the SolarPowerExpo community newsletter, linked to the SolarPowerExpo platform. This community has been developed and managed by Cambridge Nanomaterials Technology Ltd (CNT Ltd), and its Brussels based sister company CNT Innovation. This community gives its members, the opportunity to learn about progress in the development of photovoltaic (PV), including flexible perovskite PV, through the different annual workshops and newsletters. It also provides a platform to exchange experience and discuss issues in scalability and future market opportunities for use of PV technologies, between technology developers in industry and researchers in academia.

The SolarPowerEXPO Community and Workshops is an exclusive virtual exhibition community platform supported with unique boutique style industry dominated conference organised by Cambridge Nanomaterials Technology Ltd (CNT Ltd).

You could become part of our exclusive virtual community and increase your visibility and business growth opportunities by joining the key market players and vibrant industrial decisionmakers, technology developers and investors.

This is an area to showcase your organisation, products and services on your dedicated virtual

EXPO booth. If you are interested in becoming a community member and exhibiting at the SolarPowerEXPO please send an email to: info@cnt-ltd.co.uk



www.solarpowerexpo.net
info@cnt-ltd.co.uk

SolarPowerEXPO & Workshops

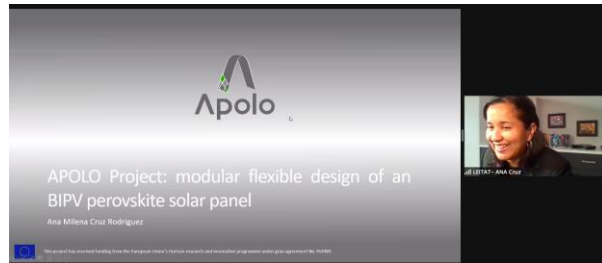
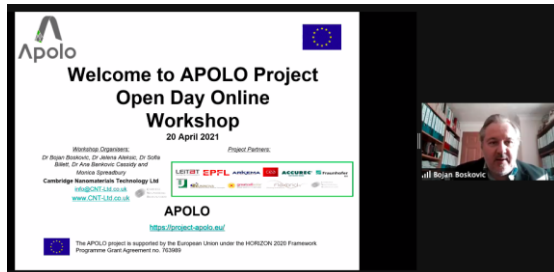
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perovskite PV, through the different annual workshops and newsletters. It also provides a platform to exchange experience and discuss issues

in scalability and future market opportunities for use of PV technologies, between technology developers in industry and researchers in academia. These events are being organised yearly, in person and/or online. The majority of attendees to these events comes from the industry. For more

information on past events, visit the [Workshops page](#)

The SolarPowerEXPO & Workshops has been developed during the H2020 funded project APOLO. Following the end of the project in 2022, the SolarPowerEXPO Community has been open to the partners outside the APOLO Project.



News from the Community



<https://www.leitat.org/>

To visit LEITAT virtual EXPO booth, click the picture, or follow the link below:

<https://solarpowerexpo.net/leitat/>



Webinar of the cluster “SOPOWERFUL”

Following some clustering activities with the sister projects IN-POWER, WEDISTRICT and INSHIP, Monica Della from Leitat, will be presenting the APOLO and IN-POWER projects at the webinar of the cluster “SOPOWERFUL”, which is taking place online on Monday 6th November, from 9:30 to 11:00.

To register to this event, please visit [the following link](#).





<https://liten.cea.fr>

To visit CEA virtual EXPO booth, click the picture, or follow the link below:

<https://solarpowerexpo.net/cea/>



CEA involvement on EU projects

Since the end of the APOLO Project, CEA has continue working on flexible substrates. They are partners in the **SuPerTandem** EU project (<https://supertandem.eu/about-supertandem>).

The main research focus on a development of highly efficient two-terminal tandem cells and modules based on complementary metal-halide perovskite absorbers. SuPerTandem project team uses and develops sustainable and earth-abundant perovskite absorber materials, ancillary materials, and scalable large-area manufacturing processes to create a novel affordable and environmental-

friendly photovoltaic technology. The project's idea is to establish low-cost and large-area fabrication technology to manufacture flexible, free-form photovoltaic cells.

CEA has also continued to improve its expertise developed in Apolo, in 2 other EU projects: the **Viperlab** project (Infriaa) (www.viperlab.eu) and the **Diamond** project (<https://diamond-horizon.eu/>), where we can improve their expertise in terms of encapsulation, aging and measurement protocols related to Perovskite PV stability issue.



www.uninova.pt

To visit UNINOVA virtual EXPO booth, click the picture, or follow the link below:

<https://solarpowerexpo.net/uninova/>



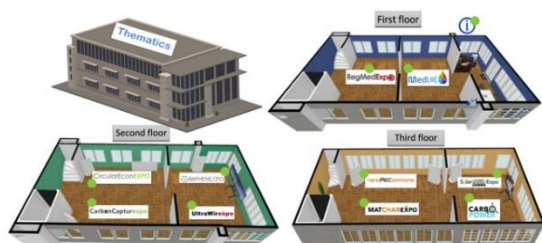
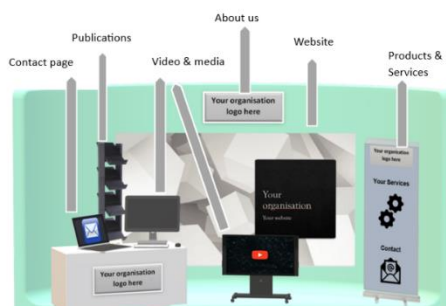
3D Solar Panel Design that improves light absorption

Researchers from UNINOVA (NOVA University Lisbon) in partnership with the University of York have designed a new for photovoltaic (PV) solar cells, in checkerboard lines, that increases their ability to absorb light by 125%. To read more about this new design and its properties, please visit the following news links: [University of York](#); *Solar panel checkerboard design improves light absorption*, [MaterialsToday magazine](#), by Laurie Donaldson; *Checkerboard Nanostructure Boosts Thin-Film PVs* [Optics & Photonics News](#), *New solar panel design*

could lead to wider use of renewable energy ScienceDaily.com, by University of York – also posted in TechExplore.com.

Join the community!

Membership to the SolarPowerEXPO will give you the opportunity to have a unique virtual booth, designed according to your particular needs. Your exhibition booth will be part of our virtual exhibition space, which has hundreds visits per year from the SolarPowerEXPO community. This virtual area will be also available to be accessed through our dedicated umbrella platform of EXPO websites, nanoMATexpo (www.nanomatexpo.net), receiving thousands of visits per year.



NanoMatEXPO Platform
www.nanomatexpo.net

You would be invited to participate, present and exhibit at our unique style industry dominated workshops, dedicated to assisting commercialisation of new technologies and network with technology development and commercialisation leaders.

You will receive support from our library of information, with innovative technology solutions, market and patenting trends, and partnership opportunities.

We would use our annual newsletter, to support and promote your organisation.

If you are interested in receiving more information, please send us an email to: info@cnt-ltd.co.uk