

INDUSTRY WORKSHOP

Chemistry and recyclable materials at ALBA Synchrotron



Sincrotrón ALBA, Carretera de la Llum 2-26, 08290 Cerdanyola del Vallès
Barcelona, Spain

9th June 2023

9:30-14:00h



ALBA Synchrotron in collaboration with the European project ReMade@ARI (<https://remade-project.eu/>), which offers free access to small and medium-sized companies, organizes a workshop dedicated to the chemical industry and recyclable materials.

In this workshop, we will have the opportunity to learn first-hand how synchrotron techniques are used to research and develop recyclable chemicals, as well as metals, plastics, catalysts, pigments and other recyclable materials. Industry experts from companies such as ALFA LAVAL, BASF and HENKEL will present their latest research and developments in this field, with a focus on **practical applications** and **potential solutions to current** industry challenges.

Many companies have already benefited from the techniques that the ALBA Synchrotron offers to improve their R&D and their products. Are you interested in becoming the next one? [Sign up](#) for the Industrial Workshop.



<https://indico.cells.es/event/1347>



AGENDA



- 9:00 h** Registration
- 9:25 h** Welcome and introduction to ALBA Synchrotron
Caterina Biscari, ALBA Synchrotron Director
- 9:30 h** ALBA Synchrotron: what is it and what is used for?
Alejandro Sánchez, Director of the Industrial Office of ALBA
- 9:50 h** Structural insights into chemical and recyclable materials by powder X-ray diffraction
Catalin Popescu, Beamline scientist of MSPD
- 10:10 h** Synchrotron science and industry of renewables and battery materials
Bernd Hinrichsen, Manager research at BASF
- 10:30 h** X-ray absorption spectroscopy application to green chemistry and sustainability
Vlad Martin Diaconescu, Beamline scientist of CLAESS
- 10:50 h** *Coffee break*
- 11:20 h** Optimization of superconducting tapes manufacturing using synchrotron light techniques in a collaboration with Sumitomo
Teresa Puig, Head of the superconducting materials department of ICMAB-CSIC
- 11:40 h** Alfa Laval company performs ground-breaking material findings by using synchrotron light at Max IV
Magnus Fredriksson, Program Manager at ALFA LAVAL
- 12:00 h** X-ray scattering for the 7Rs of the circular economy
Eduardo Solano, Beamline scientist of NCD-SWEET
- 12:20 h** Road towards new smart adhesives using synchrotron light sources
Kang Wei Chou, Technical manager at HENKEL
- 12:40 h** Industrial access to ALBA services and subsidised access, ReMade@ARI Project
Núria Valls, Industrial contact officer at ALBA
- 13:00 h** Discussion and questions
Moderator **Marta Avila, Industrial contact officer at ALBA**
- 13:15 h** Guided tour of ALBA Synchrotron facilities
- 14:00 h** *Lunch-Networking*



Note: The coffee break and lunch included in this Agenda are covered by ALBA-CELLS through the ReMade@ARI project.



**UK Research
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Project funded by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Education,
Research and Innovation SERI

Funded by the European Union as part of the Horizon Europe call HORIZON-INFRA-2021-SERV-01 under grant agreement number 101058414 and co-funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee (grant number 10039728) and by the Swiss State Secretariat for Education, Research and Innovation (SERI) under contract number 22.00187.