

CERES NEWSLETTER



CERES

CHEMICAL ENGINEERING AND RENEWABLE
RESOURCES FOR SUSTAINABILITY

#5 - March 2025

www.uc.pt/ceres

In this edition of the Newsletter, we have chosen to communicate in English, a practice that will continue in future editions.

We highlight recent and upcoming **CERES Talks** seminars, featuring presentations by the coordinators of thematic lines TL3 (March) and TL4 (April), followed by the **Chemical Engineering Students' Meeting** (May). This meeting is particularly important, and we encourage our PhD students to participate enthusiastically.

Additionally, we share details of upcoming scientific events organized by CERES researchers and introduce three major projects recently launched and led by CERES: **DyeLoop**, **BIOBASED2UC**, and **BI-WELLNESS**.

Finally, we recognize CERES researchers and collaborators who have received competitive awards for their outstanding contributions.

We also remind you that CERES offers laboratory analysis services.



The **4th International Congress of Environmental Engineering** will take place at the University of Coimbra, on July 7-9, 2025.

Margarida Quina (CERES) is member of the Scientific Committee.

Last-minute submission of abstracts is still possible. For more information, visit: <https://www.4ciea.com/>



CERES

Talks

14h15

TALKS, COFFEE & NETWORKING
ANFITEATRO NOBRE (DEQ)

Speakers:



João Gomes (CERES)
Isabel Neves
R&D Funding Advisor and
Manager for the Strategic
Areas at Univer. Coimbra



Mara Braga (CERES)
João Rodrigues
(CICECO, Averoio)



Student Edition (DEQ)
Meeting of Students of
Chemical Engineering

1 2



9 0

FACULDADE DE
CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE DE
COIMBRA

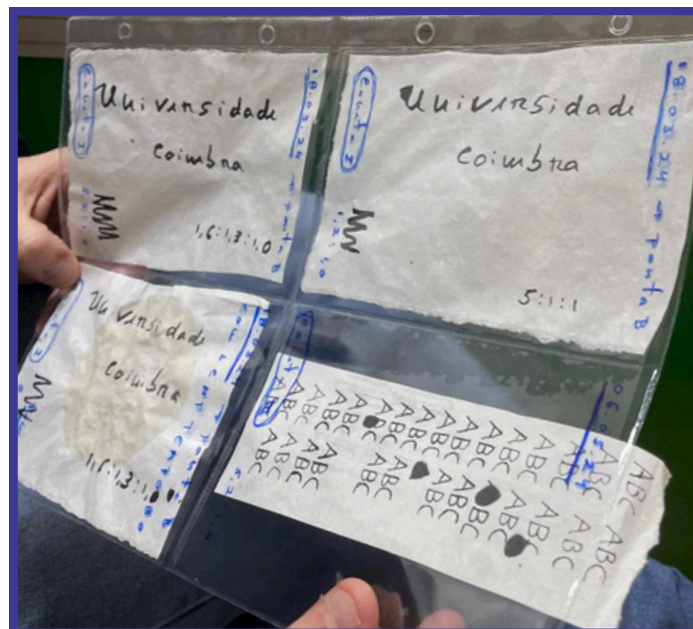
deq.uc
DEPARTAMENTO DE ENGENHARIA QUÍMICA

Made in CERES

Projects



DyeLoop: Circular Technologies for Textile Dyeing is a project coordinated by Jorge Pereira, also including Alexandre Jorge, Helena Ribeiro, Joaquim Pinto, and Mariana Alves (all - CERES). DyeLoop is Funded by the Calouste Gulbenkian Foundation with 1.4 million Euro and aims to transform the technology for textile dyeing. It will use natural pigments extracted from plant and marine biomass, and recover 70 to 90 % of the dyes, reducing waste and contamination of residual water. The project will reuse 60 to 70 % of water, significantly reducing its consumption. More details (in Portuguese) can be found here: <https://bit.ly/3DUBTEI>



In March 2025, started **BIOBASED2UC**, a project led by José Gamelas (CERES), and funded by the European Commission with 2.2 million Euro. The project foresees a new line of research at the University of Coimbra (UC), that lies on two vectors: 1) development of bio-based materials (focus on nanocelluloses), and 2) application of bio-based materials in the conservation and restoration of historical cellulosic objects (focus on paper documents). A new interdisciplinary team will be created for this purpose, aimed to establish a permanent research group in the field, beyond the duration of the project. More details about the project (in Portuguese) can be found in a recent publication of José Gamelas in *Rua Larga*, journal of the UC Rectory, at the following link: <https://bit.ly/3FAGK9J>



Project **BI-WELLNESS**, coordinated by Hermínio Sousa (CERES, see photo on the right), aims to develop innovative and sustainable products for human and animal well-being, using natural resources, such as thermal waters, by-products from the wine and olive industries, or native aromatic plants of the Beira Interior region of Portugal. More details (in Portuguese) can be found here: <https://bit.ly/4IM8Pne>

Made in CERES

Meetings



The 2025 **Ibero-American Congress on Chemical Engineering** (CIBIQ 2025) will take place in Lisbon, on September 8-10, 2025, together with **15th European Congress of Chemical Engineering** and **8th European Congress of Applied Biotechnology** (ECCE15 & ECAB8), under the general topic "Engineering for a Sustainable World: Summit for Clean Technologies & Brighter Legacy", and hosted by the *Ordem dos Engenheiros* of Portugal. Graça Rasteiro (CERES) is co-Chair of CIBIQ. Margarida Quina (CERES) and Paulo Ferreira (CERES) are coordinators of *Specialized Symposiums (Topics)*, Marco Seabra Reis (CERES) will give a plenary lecture at CIBIQ. Submission of abstracts for poster communications is possible till July 31. Further information is available at <https://ecce-ecab2025.eu/>



The **ENBIS Spring Meeting 2025**, devoted to «**Quality by Design (QbD) & Process Analytical Technology (PAT): Statistical, AI, and "Grey" Approaches**», will take place in Coimbra, Portugal, on May 29-30, 2025. Marco Seabra Reis (CERES) is the chair of both the Local Organizing Committee and the Programme Committee. Submission of abstracts for poster communications is possible till March 31. Further information is available at <https://conferences.enbis.org/event/66/>

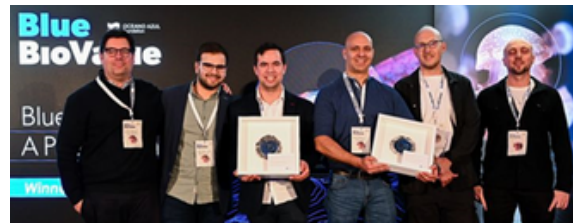


The **XXIX National Meeting of the Portuguese Chemical Society** will take place at the University of Coimbra, on July 20-23, 2025. The theme of the congress is: "Chemistry, the Unifying Science". Luisa Durães (CERES) is a member of the Scientific Committee. Submission of abstracts is possible till May 15. For more information, visit: <https://xxixenspq.events.chemistry.pt/>

The XXVII International Conference on Forest Biobased Materials, **TECNICELPA 2025**, will be held in Tomar, on October 22-24, 2025. Paulo Ferreira (CERES) is a member of the Organizing Committee. Submission of abstracts is possible till April 15. Further information is available at <https://bit.ly/3QPapyn>



We are CERES People



Fundação Santander awarded prizes to the winners of the 2024 **UC Proof of Concept** Contest. One of the five 2024 Winners was Cláudio Almeida (CERES), with the project **ISense4Food**, and a €20,000 prize. See for more details: <https://bit.ly/41Ydlby>

Alexandre Jorge, Helena Ribeiro, Joaquim Pinto and Jorge Pereira (all CERES, BioPPuL@UC lab) have been developing innovative and sustainable technologies for textile dyeing, using natural pigments extracted from plant and marine biomass, through **AgroBioTech** and **MarineBioTex** projects. **AgroBioTech** won the 1st place in the **BioRural Challenge SW-EU Finals**, in Valladolid, securing a place in the final phase of the competition, in Brussels, on May 12, 2025.

More about this project: <https://bit.ly/3QPYlrn>

MarineBioTex won the **Blue Bio Value – Ideation** prize, on December 3–4, 2024, at the Lisbon Oceanarium, and was awarded €5,000 for future development of this project. More about this project: <https://bit.ly/3DYsxmz>



In February 2025, Rui C. Martins, Inês Roque and Teresa Chichorro (all CERES) took part in the “**Water, an Unfiltered Exhibition**” event, held at *Museu de Ciències Naturals de Barcelona*, as part of **H2OforAll** project communication and dissemination initiative.

The primary focus was to raise awareness about purification methods of contaminated water. The researchers interacted with over 200 people (mostly children). The interactive demonstrations will now help to fine-tune the Educational Kit showing how certain materials can effectively remove pollutants from water.

See for more details: <https://bit.ly/4hTIEjl>

Women in Science



On the International Women’s Day, March 8, the 5th edition of “**Mulheres na Ciência**”, the book edited by *Ciência Viva*, was launched. One of the scientists distinguished in this volume is Graça Rasteiro (CERES), who started the field of Particle Technology in Portugal, at the Department of Chemical Engineering, University of Coimbra.

More details at: <https://bit.ly/4j6mQ4U>

Women in Science



Paula Ferreira (IPC researcher and CERES collaborator) is one of the winners of the **Women TechEU** contest, awarded with a 2-year EU-funded project that supports women leading deep-tech startups in Europe.

Paula Ferreira is CTO at the **Ineye Pharma** start-up, which she co-founded with Marcos Mariz (CERES).

More details about the contest: <https://bit.ly/4hTZA9r>

