

# CERENA

CENTRO DE RECURSOS NATURAIS E AMBIENTE

SEMINÁRIOS 2023: Forward Past, what's next?

SEMINARS 2023: Forward Past, what's next?

# FORWARD PAST, WHAT'S NEXT?



CERENA's mission is to develop research at the highest level of excellence related to the sustainable use of natural resources, including energy, as well as their impact on the environment. CERENA uses an approach that is simultaneously integrative, multidisciplinary and multi-scale, from the molecular level to the planetary scale, where researchers from different scientific fields - earth, chemical and material engineering - converge towards the same objectives.

In 2023 we are organizing the Seminar Series '*Forward past, what's next?*'. This cycle of Seminars focuses on the results and achievements of projects already completed or in progress, with the aim of preparing the FCT R&D Unit Assessment by the end of this year. Our achievements in recent years will be revisited as the solid foundations on which we will build the strategic project that we intend to develop in the coming years.

The seminars are at **12:30-13:30**. Attendance is free, but **registration is mandatory** until 10 days before each seminar. Please visit <https://cerena.tecnico.ulisboa.pt/events> for details.

# FORWARD PAST, WHAT'S NEXT?



**January 26** – Técnico Central Building, Room C13

**António Fiúza**, CERENA-FEUP

**Project SHS** - Soil health surrounding former mining areas: characterization, risk analysis, and intervention

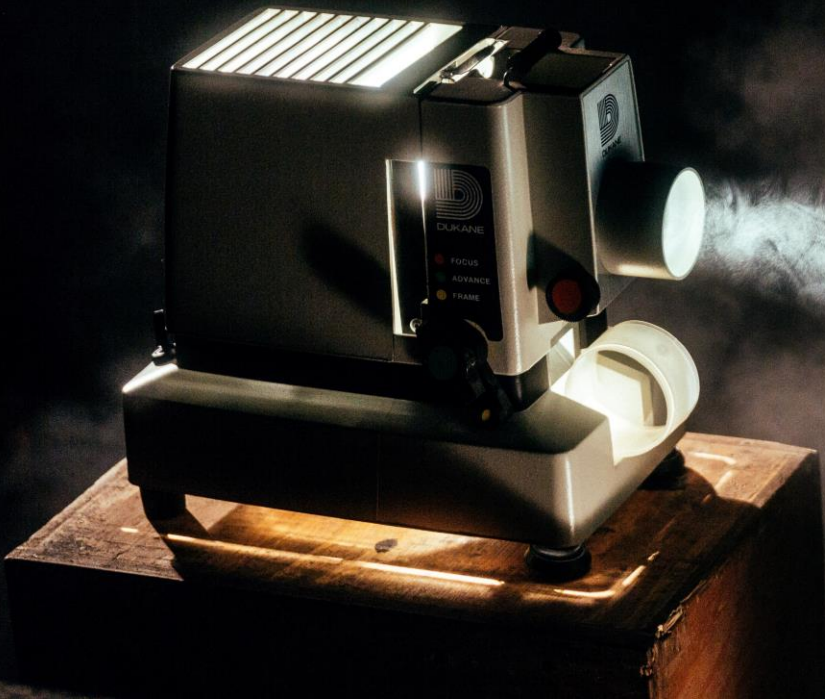
Keywords: Environmental Modelling, Mitigation and Remediation

**Rui Sousa**, CERENA-FEUP

**Project FAME** - Flexible and Mobile Economic Processing Technologies

Keywords: Engineering, Environment, Mineral Resources and Bio-Resources, Processes and Systems Modelling, Resources and Raw Materials

# FORWARD PAST, WHAT'S NEXT?



**February 23** – Técnico Central Building, Room C13

**Abeer Al Mohtar**, CERENA-Técnico

**Project NEMOSINE** - Innovative Packaging Solutions For Storage and Conservation of 20th Century Cultural Heritage of Artefacts Based on Cellulose Derivative

Keywords: Eco-innovative materials, Resources and Raw Materials

**Leonardo Azevedo**, CERENA-Técnico

**Project inTheMed** - Innovative and Sustainable Groundwater Management in the Mediterranean

Keywords: Environment, Environmental Modelling, Mitigation and Remediation

# FORWARD PAST, WHAT'S NEXT?



**March 30**– Técnico Central Building, Room C13

**Ana Clara Marques**, CERENA-Técnico

**Project SOLAR2CLEAN** - Engineered solar light driven photocatalytic systems for wastewater purification

Keywords: Eco-innovative materials, Energy, Environment, Mitigation and Remediation, Reuse, Reduce and Recycle

**Rui Galhano dos Santos**, CERENA-Técnico

**Project BETTER PLASTICS** – Plastics in a circular economy

Keywords: Circular economy, Eco-innovative materials, Engineering, Processes and Systems Modelling, Resources efficiency

# FORWARD PAST, WHAT'S NEXT?



**April 27**– Técnico Central Building, Room C13

**Susete Martins-Dias**, CERENA-Técnico

**Project PhytoCharMe** - A circular economy approach for the valorisation of soils in abandoned mine sites by using phytoremediation combined with biochar

Keywords: Circular economy, Environment, Mitigation and Remediation

**Amílcar Soares**, CERENA-Técnico

**Project Real-Time Mining** - Real-Time optimization of the extraction and the logistics process in highly complex geological and selective mining settings

Keywords: Processes and Systems Modelling, Resources and Raw Materials, Resources efficiency

# FORWARD PAST, WHAT'S NEXT?



**May 25** – Técnico Central Building, Room C13

**Sandra Heleno**, CERENA-Técnico

**Project ALTITUD3** - Assessment of Low-cost Aerial Intelligent systems for natural Terrain 3D mapping

Keywords: Environmental Modelling, Natural and Technological Hazards, Remote Sensing

**João Fonseca**, CERENA-Técnico

**Project SHAZAM** - Seismicity and HAZards of the sub-saharian Atlantic Margin

Keywords: Natural and Technological Hazards

# FORWARD PAST, WHAT'S NEXT?



**June 29** – Técnico Central Building, Room C13

**João Gomes**, CERENA-ISEL

**Project CERASAFE**: Safe Production and use of nanomaterials in the ceramic industry

Keywords: Natural and Technological Hazards

Cancelled

**Moisés Pinto**, CERENA-Técnico

**Project Gasotransdelivery** - Delivery vehicles of therapeutic gasotransmitters NO and H<sub>2</sub>S based on nanoporous materials

Keywords: Engineering

New!

**Project SCOPE**-Spatial Data Sciences for COVID-19 Pandemic

Keywords: Environmental Modelling



# FORWARD PAST, WHAT'S NEXT?



**July 27** – Técnico Central Building, Room C13

**Margarida Mateus**, CERENA-SECIL

**Project CCL** – Clean Cement Line

Keywords: Alternative Energy Sources, Eco-innovative materials, Energy, Energy Efficiency, Engineering, Environment, Low carbon Energy, Processes and Systems Modelling

**Henrique Matos**, CERENA-Técnico

**Project IProPBIO** - Integrated Process and Product design for Sustainable Biorefineries

Keywords: Circular economy, Eco-innovative materials, Energy, Energy Efficiency, Engineering, Environment, Low carbon Energy, Processes and Systems Modelling, Resources and Raw Materials, Resources efficiency



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