



EUCEET ASSOCIATION AWARD FOR EXCELLENCE IN TEACHING CIVIL ENGINEERING

Name of the person presenting the candidature on behalf of the candidate:

Professor Esther Real Saladrigas

Post: Director

Institution: Civil Engineering School of Barcelona

University: Universitat Politècnica de Catalunya

Country: Spain

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Non-perishable link to the documentation to be evaluated by the jury:

<https://camins.upc.edu/ca/escola/2025-euceet-awards/euceet-2025-award-barcelonas-civil-school-nomination>

Data of the candidacy leader:

Given name: Alfonso

Family name: Rodriguez-Dono

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ID Number:46900336R

Nationality: Spanish

Birth data:26/06/1977

Department / School: UPC Department of Civil and Environmental Engineering.

Data privacy disclaimer: Candidates agree with the fact that EUCEET Association will keep all personal data from the files of the candidacy. The personal data collected are limited to information regarding relationship with candidates. This includes contact information, such as name, telephone number, address or email address; as well as information relating to projects and events to be used in our website or newsletter or communications. Personal data will be passed on to third parties (to the commission) only to conduct the external evaluations for granting the award. You are entitled to request information about your stored data. You may request that your personal data be corrected, supplemented, blocked or deleted. If you have consented to the processing of your data, you may revoke that consent at any time, effective going forward. Documentation to be assessed by the jury can be provided through a non-perishable link.



Data of the candidacy team (if applicable):

Name of the members of the teaching team:

Dr. Sebastian Olivella-Pastalle – UPC Department of Civil and Environmental Engineering

Dr. Jose Antonio Gili Ripoll – UPC Department of Civil and Environmental Engineering

Dr. Anna Ramon Tarragona – UPC Department of Civil and Environmental Engineering

Dr. Olga Alcaraz Sendra – UPC Department of Physics

Dr. Barbara Sureda Carbonell – UPC Department of Graphic and Design Engineering

Data of the proposal:

Title of the proposal:

ENGINEERING EDUCATION FOR A SUSTAINABLE FUTURE: CONFRONTING ENVIRONMENTAL CHALLENGES.

Short summary (around 200 words):

The project "Engineering Education for a Sustainable Future: Confronting Environmental Challenges" is an interdisciplinary educational initiative developed at the Universitat Politècnica de Catalunya (UPC) aimed at integrating sustainability and critical thinking into civil engineering education. It employs structured classroom debates and public conferences —most notably, the *Beyond Growth* event— to foster environmental awareness and prepare students to tackle global challenges.

Implemented in courses such as "Management of Geological and Energy Resources," the methodology trains students to explore real-world environmental issues, adopt opposing viewpoints, and defend arguments using scientific and engineering-based reasoning. The project is collaborative, involving faculty from civil engineering, physics, and design departments, and reaches students, NGOs, and the general public.



EUROPEAN CIVIL ENGINEERING EDUCATION AND TRAINING ASSOCIATION

Quantitative and qualitative assessments confirm its impact: enhanced student engagement, better academic outcomes, and over 1,300 video views and 300+ presentation downloads. The initiative has received institutional support and prestigious

awards, including the UPC Award for Quality in University Teaching and the Jaume Vicens Vives Distinction.

Its methods are highly exportable to other subjects and educational levels. By encouraging students to become socially and environmentally responsible professionals, the project aligns with several UN Sustainable Development Goals and represents a transformative model in engineering education.

Thematic area of the proposal (check or highlight):

Water-techniques and environmental engineering

Materials, structures, construction and geo-techniques

Transportation, transportation infrastructure and urban planning

STEM

Social sciences

Others (specify)

Sustainability, environmental challenges, and engineering solutions integrated into civil engineering education.

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