

## **Katedra Mechaniki Budowli i Materiałów**

Wydział Inżynierii Lądowej  
Politechniki Krakowskiej  
Kraków, ul. Warszawska 24

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### **SEMINARIUM**

**W czwartek 12 czerwca 2025 w sali 402**

w budynku głównym PK

**o godz. 9<sup>15</sup>**

## **Enrico ZACCHEI**

*Prof. Dr. Eng.*

Polytechnic School of University of Salamanca (USAL), Spain

przedstawi referat

***Bridging the gap between theory and practice:  
Practical insights from structural engineering  
(academic and professional perspectives)***

**KIEROWNIK**  
Katedry Mechaniki Budowli i Materiałów

*prof. dr. hab. inż. Tadeusz Tatura*

## **Bridging the gap between theory and practice: Practical insights from structural engineering (academic and professional perspectives)**

**Prof. Dr. Eng. Enrico Zacchei**

Polytechnic School of University of Salamanca (USAL), Spain

Mechanics of Continuous Media and Theory of Structures

### **Seminar.**

Depending on the complexity of the project or on certain peculiarities that make it an "uncommon" case - such as unusual geometrical configurations, applied loadings, or material responses - standard codes may not be sufficient to ensure an adequate structural design. In such cases, engineers and researchers must be encouraged to address and solve new challenges. Engineers should be prepared to collaborate with professionals from different fields (i.e., multidisciplinary engineering) and remain open to new concepts and perspectives, while researchers should aim to translate their studies into concrete, understandable, and accessible outcomes for civil society. In this seminar, practical case studies in which the author was involved (both in the design process and project coordination) will be presented. These examples highlight significant gaps between code-based approaches and real-world structural responses, as well as how practical solutions were developed. Case studies will include projects such as a pile-supported wharf, a fire station building, steel bridges, large insulating structural glass panels, and more.

### **Enrico Zacchei.**

Senior Structural Engineer, Researcher, and Adjunct Professor.

Consultant for "Special Projects and Activities" at Maua Institute of Technology (IMT), Brazil. Visiting Professor at Department of Civil Engineering of the University State of São Paulo (UNESP), Brazil. Visiting Researcher at Institute of Mechanics, Materials and Civil Engineering (IMMC) of the Catholic University of Louvain (UCL), Belgium, in Structures.

PhD from University of Salamanca (USAL), Spain, in co-tutorship with the Polytechnic School of the University of São Paulo (USP), Brazil. Second PhD from University State of São Paulo (UNESP), Brazil. Master and Bachelor degree in Civil Engineering - Structures, from University of Roma Tre (Uniroma 3), Italy. 10 specialization courses at USP and UNESP University.

10 grants/scholarships, 4 of which for stays in R&D centers: USP (2.5 years); UNESP (8 months) under ministerial scholarship "CAPES"; School of Industrial Engineering of the University of Malaga (UMA), Spain (9 months); UCL (3 months) under "WBI excellence scholarship". 2 prizes.

9 years of technical experience in national/international companies and institutes (Italy, Brazil, Portugal) and 7 years of scientific experience. Member of 10 technical projects (5 large projects) and 13 funded research projects (10 more than 500k euro). Coordinator of 4 projects. More than 40 papers published in high impact journals (JCR, Scopus). More than 25 participations/presentations at conferences (8 as Invited/Keynote Speaker).

Member of the working group "Seismic behaviour of dams: World relevant cases", ITCOLD, Italy. Member of the research group "CERIS-Coimbra" and "Experimental dynamic analysis of structures", USP. Editor for JCR Journals: Infrastructures, Frontiers in Built Environment. Reviewer for more than 15 JCR journals. 2 co-orientations of bachelor/master students. Evaluation member for bachelor degree students. Technical-scientific committee member (8) and organizer of mini-symposia (3) for congresses/events.

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