

EXHIBITION CATALOGUE

INTERNATIONAL ITINERANT EXHIBITION "RESEARCH IN BUILDING ENGINEERING EXCO'25"

INTERNATIONAL ITINERANT EXHIBITION EXCO 2025
ETS DE INGENIERÍA DE EDIFICACIÓN
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
Camino de Vera S/N, 46022 Valencia – Spain

Location:

Silesian University of Technology (Poland)

From December 12th to December 22nd, 2025
Akademicka 5, 44-100 Gliwice, Poland

Curators of Exhibition:

Dr. Szymon DAWCZYŃSKI (Polish Curator - Local)
Dr. José Ramón ALBIOL IBÁÑEZ (International Curator)

Exhibition

XXXIX INTERNATIONAL SHOWROOM OF CONSTRUCTION TECHNOLOGIES - EXCO 2025 ©

INTERNATIONAL ITINERANT EXHIBITION "Research in Building Engineering - EXCO'25"

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EXCO

Koordinator Programu Erasmus+
Wydział Budownictwa
ERASMUS+ Coordinator
Faculty of Civil Engineering
PL GLIWICE01

dr inż. Szymon Dawczyński

WSTĘP GLIWICE

W tym roku, po raz kolejny Wydział Budownictwa Politechniki Śląskiej w Gliwicach miał zaszczyt gościć w swoich murach międzynarodową wystawę EXCO 2025, Badania w Inżynierii Budowlanej". W holu głównym budynku Wydziału można było oglądać postery przedstawiające prace naukowe z takich dziedzin jak budownictwo, architektura, urbanistyka, ochrona środowiska, ekonomia, dziedzictwo kulturowe czy nawet inżynieria neuronowa. Tak szerokie spektrum prezentowanych tematów wpłynęło na bardzo duże zainteresowanie studentów i pracowników Uczelni odwiedzających wystawę. W tym miejscu należy podkreślić, że tego olbrzymiego sukcesu nie byłoby bez ogromnego, osobistego zaangażowania w przygotowanie oryginalnej wystawy EXCO 2025 dra inż. José Ramón Albiola Ibáñeza oraz całego Jego zespołu z Politechniki w Walencji. A fakt, że z roku na rok wystawa poszerza grono swoich odbiorców, goszcząc w nowych krajach i na nowych uczelniach partnerskich, świadczy o potrzebie organizacji takich wydarzeń, które oprócz celów czysto naukowych mają również za zadanie integrację międzynarodowego środowiska naukowego.

Dr. Szymon DAWCZYŃSKI

PROLOGUE GLIWICE

This year, once again, the Faculty of Civil Engineering of the Silesian University of Technology (Gliwice, Poland) had the honour to host the international exhibition EXCO 2025 'Research in Building Engineering'. Posters presenting scientific works in such fields as construction, architecture, urban planning, environmental protection, economics, cultural heritage and even neural engineering could be seen in the Faculty's main hall. Such a wide spectrum of presented topics resulted in a very high interest of students and employees of the University visiting the exhibition. At this point, it should be emphasized that this enormous success would not have been possible without a huge, personal commitment to the preparation of the original EXCO 2025 exhibition by Dr. José Ramón Albiol Ibáñez and his entire team from the Universitat Politècnica de València. And the fact that from year to year the exhibition expands its audience by visiting new countries and new partner universities shows the need to organize such events, which in addition to purely scientific purposes are also intended to integrate the international scientific community.

Dr. Szymon DAWCZYŃSKI

FOREWORD DIRECTOR EXCO'25

The Faculty of Building Engineering of the UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, organized on February 24th to 28th, 2025, "The XXXIX Construction Technology Exhibition" EXCO'25 and the International Itinerant Exhibition "Research in Building Engineering" along year, at CEVISAMA - International Fair of Valencia - SPAIN.

Conferences are scheduled in UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, the speakers are national and international of recognized prestige from Europe, Asia and America. These conferences are aimed at professionals and students of the UPV to broaden their knowledge and experiences.

EXCO'25 promotes the entrepreneurship of the young UPV generations, participation in conferences.

The International Itinerant Research Exhibition EXCO'25 has the collaboration of 63 Universities from America, Europe, Africa, Asia and Oceania. Promoting collaboration between institutions and professors at the international level.

It fosters interdisciplinary collaboration of the professor staff within the UPV with 63 International Universities; It has the participation of 9 departments and 8 research institutes of the UPV in EXCO'25.

The participating entities are:

1. Universitat Politècnica de València, España.
2. Politecnico di Milano, Italia.
3. Mimar Sinan Fines Arts University, Istanbul, Turkey.
4. Nottingham Business School, England.
5. Vilnius Gediminas Technical University, Vilnius, Lithuania.
6. Universidad de Costa Rica
7. Università degli Studi di Basilicata, Matera, Italia.
8. Universidad Tecnológica de La Habana José Antonio Echeverría, Cuba.
9. Università degli Studi Firenze, Italia
10. Università di Pavia, Italia.
11. Odessa State Academy of Civil Engineering & Architecture, Odessa, Ukraine
12. Università di Salerno, Italia.
13. Silesian University of Technology, Politechnika Śląska, Gliwice, Poland.
14. University of British Columbia, Vancouver, Canada.
15. Universidad de Alcalá de Henares, Madrid, España.
16. Florida A&M University, Florida, USA.
17. Universidad Mayor de San Andrés, La Paz, Bolivia.
18. Universidad de la República (UdelaR) de Uruguay.
19. Universidad John F. Kennedy, Argentina.
20. Universidad de Castilla-La Mancha, España.

21. Universidad de Granada, España.
22. Università degli Studi della Campania "Luigi Vanvitelli", Napoli.
23. Politecnico di Bari, Italia.
24. Università degli Studi di Roma "Tor Vergata", Italia.
25. Hanze University of Applied Sciences, Groningen. Nederland.
26. Jade Hochschule Wilhelmshaven/Oldenburg, Germany.
27. New York University, Tandon School of Engineering. USA.
28. McGill University, Canada
29. Nanyang Technological University, Singapore.
30. University of New South Wales, Sydney, Australia.
31. Università di Pisa, Italia.
32. Universidad de Ibagué, Colombia.
33. Beijing Yong Shan Media Co., Ltd. Pekin
34. Università degli Studi dell'Aquila, Italia.
35. Universitat Jaume I, Castellón, España.
36. University of Applied Sciences and Arts of Southern Switzerland
37. Institut für Bau- und Infrastrukturmanagement /ETH Zürich
38. University North, Varaždin, Croacia
39. South Ukrainian National Pedagogical University, Odessa, Ukraine.
40. Kharkiv National University of Civil Engineering and Architecture, Ukraine.
41. Universitat de València, Spain.
42. Perm National Research Polytechnic University, Perm, Russia
43. University of Cape Town, South Africa.
44. National University of Singapore.
45. TU Delft, The Netherlands.
46. Politecnico di Torino, Italy.
47. Wuhan University, Wuhan, China.
48. University of Oregon, USA.
49. City-University of Hong Kong.
50. Shenzhen University School of Architecture, Shenzhen, China.
51. Hokkaido University, Sapporo, Japan
52. Universidad de la Salle, Bogotá, Colombia.
53. Universidad de los Andes, Bogotá, Colombia.
54. Universidad Católica de Valencia. España.
55. Universidad UTE. Quito. Ecuador.
56. Universidad de Napoles Federico II, Napoles, Italy.
57. Telematic University Pegaso, Italy.
58. University of Guanajuato, México.
59. University of La Salle Bajío, México
60. Universidad Jesuita de Guadalajara, ITESO, México

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61. Tecnológico de Monterrey. México.
62. MIT Massachusetts Institute of Technology. USA.
63. Gdańsk University of Technology, Poland.

Thank you all for making EXCO possible.

All the best for EXCO'26!

Best Regards

Dr. José R. Albiol-Ibáñez



Vice Dean Digital Transformation, Business Cathedra &

Entrepreneurship Director EXCO'25

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Fernando Cos-Gayón López / Ángel Martín Furonos / Igor
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Anja Henrike Kleinke

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Raffaella Lione / Ornella Fiandaca / Fabio Minutoli / Alessandra Cernaro / Luis Manuel Palmero Iglesias

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M. Pérez-Martínez / M.L. Nolé / R. Barranco-Merino / J.L. Higuera-Trujillo / C. Llinares

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