

EXHIBITION CATALOG

INTERNATIONAL ITINERANT EXHIBITION "RESEARCH IN BUILDING ENGINEERING EXCO'22"

INTERNATIONAL ITINERANT EXHIBITION EXCO 2022
ETS DE INGENIERÍA DE EDIFICACIÓN
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
Camino de Vera S/N, 46022 Valencia – Spain

Location:

ISTANBUL (Turkey)

MIMAR SINAN GÜZEL SANATLAR UNIVERSITY

From 21st to 29th December, 2022

Cumhuriyet Mah.
Silahsör Cad. No:89 Bomonti - İstanbul

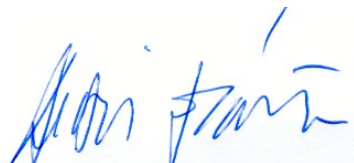
Curators of Exhibition:

Dr. E. Sibel Onat HATTAP (Local Curator)
Dr. José Ramón ALBIOL IBÁÑEZ (International Curator)

Exhibition

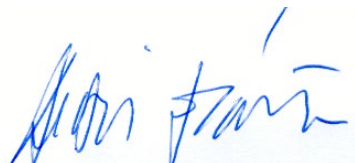
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INTERNATIONAL ITINERANT EXHIBITION "Research in Building Engineering - EXCO'22"



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PROLOGUE ISTANBUL

Mimar Sinan Güzel Sanatlar Üniversitesi, "Geleneksel Mimaride Ahşabın Kullanımı ve Sürdürülebilirliği" dersi ile 2022 yılı başında Exco'ya katılmıştır. Exco ile uluslararası ortak ortak çalışmalar yapma imkanı doğmuştur. Exco gezici sergisi İstanbul'da Üniversitemize gelerek, akademik camia ve öğrenciler için yapı, inşaat ve mimarlık alanlarında yol gösterici olmuştur. Prof. Dr. Jose Ramon Albiol Ibanez ve Doç. Dr. E. Sibel Hattap tarafından kratörlüğü yapılan sergi çevre, ekonomi, nöral mühendislik, miras, teknoloji, şehir planlaması konularında yenilikçi malzeme, üretim için aydınlatıcı bilgiler verilmiştir. Exco ile gelenekselden geleceğe malzeme ile teknoloji, kullanımı irdelenmiş, gelecek için mimari ve inşaat sektöründe yeni umutlar doğmuştur. Mimar Sinan Güzel Sanatlar Üniversitesi, Prof. Jose Ramon Albiol İbañez tarafından koordine edilen bu girişimin bir parçası olmaktan mutluluk duymaktadır.

Dr. Sibel HATTAP

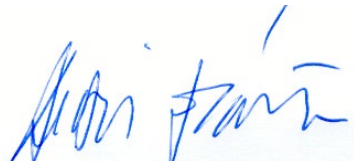
PROLOGUE ISTANBUL

Mimar Sinan Fine Arts University has participated Exco at the beginning of 2022 with the course of "The Use and Sustainability of Wood In Tradional Architecture". The opportunity of making international collaborations with Exco has cameup. Exco mobile exhibition came to our University in Istanbul and guided the academic community and students in the fields of construction, building and architecture. The exhibition, which was created by prof. Dr. Jose Ramon Albiol Ibanez and Assoc. Dr. E. Sibel Hattap, provided innovative materials and enlightening information for production on the subjects of environment, economy, neural engineering, heritage, technology, urban planning. With Exco, theuse of material and technology from the traditional to the future has been explored and new hopes have emerged for the sector of architecture and construction. Mimar Sinan Fine Arts University is pleased to be a part of this initiative coordinated by Prof. Dr. Jose Ramon Albiol Ibañez.

Dr. Sibel HATTAP

Mimar Sinan Fine Arts University

Fındıklı Campus



PROLOGUE DIRECTOR EXCO'22

The Faculty of Building Engineering of the UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, organized on June 13th to 17th, 2022, "The XXXVI Construction Technology Exhibition" EXCO'22 and the International Itinerant Exhibition "Research in Building Engineering" along year.

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

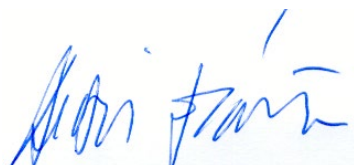
The International Itinerant Research Exhibition EXCO'22 has the collaboration of 63 Universities from America, Europe, Africa, Asia and Oceania. Promoting collaboration between institutions and professors at the international level.

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'22.

The participating entities are:

Universities:

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.*



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27. *New York University, Tandon School of Engineering. USA.*
28. *McGill University, Canada*
29. *Nanyang Technological University, Singapore.*
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37. *Institut für Bau- und Infrastrukturmanagement /ETH Zürich*
38. *University North, Varaždin, Croacia*
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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.*
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49. *City-University of Hong Kong.*
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51. *Hokkaido University, Sapporo, Japan*
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56. *Universidad de Napoles Federico II, Napoles, Italy.*
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58. *University of Guanajuato, México.*
59. *University of La Salle Bajío, México*
60. *Universidad Jesuita de Guadalajara, ITESO, México*
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.
Best Regards*

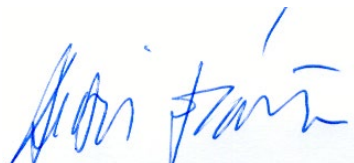
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Vice Dean International Relations, Employment, Business Cathedra & Entrepreneurship

Director EXCO'22

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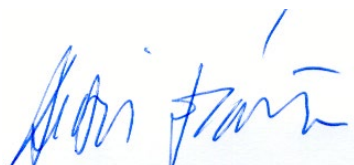
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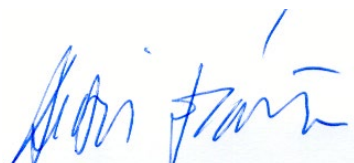
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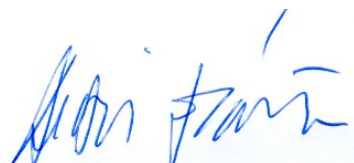
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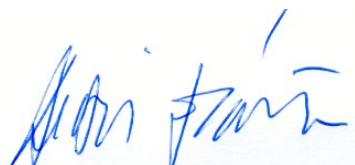
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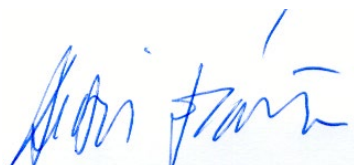
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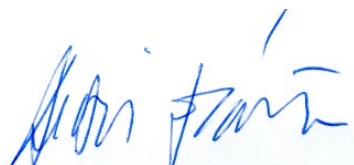
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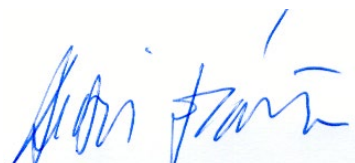
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Tecnológico de Monterrey



CHAPTER 1 ECONOMY

1.1.- ACCESS TO HOUSING. A COMPARISON BETWEEN OWNERSHIP AND COHOUSING

Alejandro Campillo Almajano / Alicia Llorca-Ponce / Andrés José Cózar Lizandra

1.2.- CADASTRAL VALUATION OF REAL ESTATE IN SPAIN

Pedro Gerardo Salinas Martínez

1.3.- METHODOLOGY FOR DESIGNING AN ENERGY COMMUNITY AND CHECKING ITS TECHNICAL AND ECONOMIC VIABILITY. APPLICATION IN THE MUNICIPALITY OF VINALESA

Laura Molina Cañamero / Elisa Peñalvo-López / Vicente León-Martínez / Joaquín Montañana-Romeu

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M^a Emilia Casar Furió

1.5.- BULLWHIP EFFECT ON CONSTRUCTION MATERIAL WEIGHS DOWN EXPECTED PROFITS

Alicia Llorca-Ponce / Adrián González Jiménez / Gregorio Rius-Sorolla

1.6.- USER PERCEPTION OF INDUSTRIALIZATION IN CONSTRUCTION. CASE STUDY: AREQUIPA - PERU

Mayte Maldonado Alvarez / Igor Fernández Plazaola / Antoni Montañana i Aviñó

1.7.- THE CIRCULAR ECONOMY OF MATERIALS AND WASTE IN THE CONSTRUCTION OF NEW-USE BUILDINGS

Fabiola Colmenero Fonseca / Francisco Javier Cárcel Carrasco / Graziella Bernardo / Luis Manuel Palmero Iglesias / Jorge Arturo Gutiérrez Camarena

CHAPTER 2 SUSTAINABILITY

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Júlia G. Borràs / Ángeles Mas Tomás / Carlos Lerma Elvira / Enrique Gil Benso / Jose Vercher Sanchis

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Ania Khodabakhshian / Luca Rampini / Fulvio Re Cecconi

2.3.- REGENERATION AND DECARBONISATION OF THE BUILDING HERITAGE. A COMPROMISE BETWEEN FUNCTIONALITY, AESTHETICS AND SUSTAINABILITY

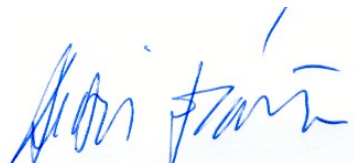
Roberta Melella / Giacomo Di Ruocco

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Enrico Sicignano / Pier Francesco Fiore / Emanuela D'Andria / Rossella Marmo / Carmelo Falce / Ilaria Perrotta

2.5.- WHAT RENEWABLE ENERGY TECHNOLOGIES (TERs) ARE APPLICABLE TO EXISTING UNIVERSITY BUILDINGS?

Joaquín Fuentes-del-Burgo / Elena Navarro-Astor



2.6.- STATE OF THE ART: USES OF RENEWABLE ENERGIES IN CONJUNCTION WITH THE PRIMARY AGRI-FOOD SECTOR

Amparo León-Vinet / Elisa Peñalvo-López / Vicente León-Martínez / Joaquín Montañana-Romeu

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Elisa Peñalvo-López / Javier Cárcel-Carrasco / Vicente León-Martínez / Iván Valencia Salazar

2.9.- ORGANIZATION OF INFORMATION FOR INDUSTRIAL BUILDINGS' EVALUATION. RecoverIND

C. Rivero-Camach / A. Martínez-Rocamora / M.D. Alba-Rodríguez / J. Solís-Gumán1,2,3, M. Marrero

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Joaquín Fuentes-del-Burgo / Elena Navarro-Astor

2.11.- ORGANIZATION OF INFORMATION FOR INDUSTRIAL BUILDINGS' EVALUATION. RECOVERIND

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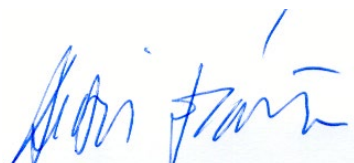
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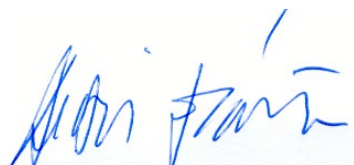
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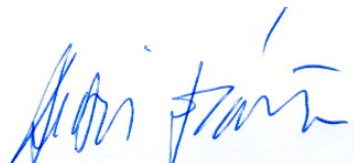
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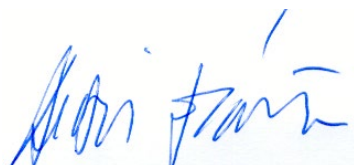
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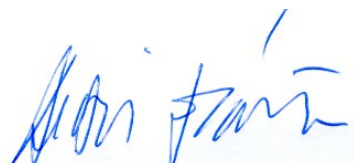
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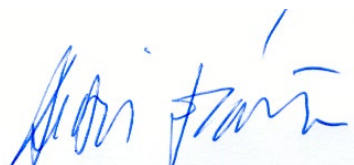
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