

# 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:**

## ***UNIVERSIDAD DE ORIENTE SANTIAGO DE CUBA***

*From October 23<sup>rd</sup> to November 17<sup>th</sup>, 2025*

FACULTAD DE CONSTRUCCIONES

Ciudad Universitaria "Antonio Maceo", Carretera de Patria, s/n, Santiago de Cuba, Cuba

**Curators of Exhibition:**

Dra. Zenaida P. FRÓMETA SALAS (Local Curator)

Dr. Jorge GIRBÉS PÉREZ (Local Curator)

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"



UNIVERSITAT  
POLITÈCNICA  
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ESCUELA TÉCNICA SUPERIOR  
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EDIFICACIÓN



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## INDEX

CURATORS	1
PROLOGUE DIRECTOR EXCO'25	3
INTERNATIONAL SCIENTIFIC COMMITTEE	6
INTERNATIONAL ORGANIZATION COMMITTEE	9
CHAPTER INDEX – Research Communications	12



# 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
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13. Silesian University of Technology, Politechnika Śląska, Gliwice, Poland.
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65. Universidad de Oriente, Cuba

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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# CHAPTER 1: ECONOMY

## 1.1-BUILDING MANAGEMENT SYSTEMS (BMS), A FURTHER ADVANCE IN BUILDINGS EFFICIENCY.

*J. Fuentes-del-Burgo / E. Navarro-Astor*



## 1.5-MAINTENANCE KNOWLEDGE MANAGEMENT MODEL BASED ON RELIABILITY, MAINTAINABILITY AND ENERGY EFFICIENCY.

*Javier Cárcel-Carrasco / Andrés Salas Montoya / Adolfo Preciado Quiroz / Alejandro Guzmán Ramírez*



## 1.2-SUSTAINABLE COMMUNITY DEVELOPMENT: ANALYZING THE IMPACT OF AI AND REVIT ON GREEN MATERIALS CONSTRUCTION.

*Fabiola Colmenero Fonseca / Alejandro Guzmán Ramírez / Andrés Salas Montoya / Javier Cárcel Carrasco / Rut Benavente Martínez*



## 1.6-OPERATIONAL RELIABILITY, MAINTENANCE AND ENERGY EFFICIENCY, RELATIONSHIPS AND IMPROVEMENT WITH THE USE OF KM TECHNIQUES.

*Javier Cárcel-Carrasco / Fidel Salas Vicente / José Ramón Albiol Ibáñez / José Antonio Cárcel Carrasco*



## 1.3-LAST PLANNER SYSTEM IMPLEMENTATION IN A CONSTRUCTION COMPANY IN KAZAKHSTAN: A SWOT ANALYSIS.

*D. Sadvokassova / N. Valverde-Gascueña / J. Fuentes-del-Burgo / E. Navarro-Astor*



## 1.7-CUSTOMER PROFILE OF THE REAL ESTATE AGENT AS THE INDUSTRY GOES DIGITAL.

*Juan Carlos Asensio-Soto / Elena Navarro-Astor*



## 1.4-RELATIONSHIP BETWEEN MAINTENANCE ENGINEERING AND KNOWLEDGE MANAGEMENT.

*Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Ramiro Rodríguez Pérez / José Ramón Albiol Ibáñez*



## 1.8-SYSTEMATIC LITERATURE REVIEW USING ARTIFICIAL INTELLIGENCE: REAL ESTATE MANAGEMENT WITH AI.

*Maita Morales-Prieto / Alicia Llorca-Ponce / Gregorio Rius-Sorolla*



## 1.9-AFFORDABILITY AND SUSTAINABILITY OF SOCIAL HOUSING IN EUROPE.

*María Oliver-Sanz / Alicia Llorca-Ponce*



*Dra. c. Lenaida P. Trómele Salas  
Decana Facultad de Construcciones  
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*23/10/2025*

*Serge Girbés Pérez*

**1.10-ENERGY OPTIMIZATION OF BUILDINGS THROUGH RELIABLE MODELS. RESOURCE ECONOMIZATION.**

*A. Esteller Agustí / A. Martínez-Ibernón / C. Aparicio-Fernández / R. Royo Pastor*



**1.11-OFFER ANALYSIS OF NEW CONSTRUCTION SINGLE-FAMILY HOUSES IN THE CITY OF VALENCIA, THE METROPOLITAN AREA, SELECTED MUNICIPALITIES OF THE CAMP DE TURIA AND THE MUNICIPALITY OF SAGUNTO.**

*Fernando Cos-Gayón López / Ángel Martín Furones / Igor Fernández Plazaola / Kaliane Bauzá Reynaldo*



**1.12- VALENCIA NEW MULTI STOREY RESIDENTIAL BUILDING DEMAND ANALYSIS.**

*Fernando Cos-Gayón López / Ángel Martín Furones / Igor Fernández Plazaola / Kaliane Bauzá Reynaldo*



# CHAPTER 2:

## ENVIRONMENT

### 2.1- COASTAL URBAN ECOSYSTEMS SUSTAINABLE INFRASTRUCTURE THROUGH INTERDUNARY LAGOONS AND THEIR IMPACT ON SOCIAL WELL-BEING.

*Fabiola Colmenero Fonseca / Maria del Carmen Ixtepan Turrent / Javier Cárcel Carrasco / Juan Francisco Palomino Bernal / Ramiro Rodríguez Pérez*



### 2.2-SOLAR CELL AS A BRIDGE BETWEEN SUSTAINABLE DEVELOPMENT AND ENERGY JUSTICE: INNOVATION FOR COMMUNITIES WITH HIGH SOLAR RADIATION.

*Bruno Guadarrama Rincón / Fabiola Colmenero Fonseca / Lauren Yolanda Gómez Zamorano / Amparo Borrell*



### 2.3-THE FUTURE OF WATER TREATMENT: INNOVATIVE ADVANCES IN CERAMIC MEMBRANE TECHNOLOGY.

*Fabiola Colmenero Fonseca / Bruno Guadarrama Rincón / Amparo Borrell / Rut Benavente Martínez / María Dolores Salvador Moya*



### 2.4-ENERGY DIAGNOSIS OF A HISTORIC EDUCATIONAL BUILDING.

*María Eugenia Torner Feltre / Mar Cañada Soriano / Carolina Aparicio Fernández / José Luis Vivancos Bono*



### 2.5-APPLIED TECHNOLOGIES CONSTRUCTION MATERIALS FOR HOUSES: A SOLUTION TO ENERGY EFFICIENCY.

*Juan Francisco Palomino Bernal / Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Alejandro Guzmán Rodríguez / Kevin Alexander Echeverry Bucurú*



### 2.6-RESOURCE MAPPING AND SMART GEOLOCATION: HARVEST MAP TECHNOLOGIES FOR SUSTAINABILITY, ESG GOVERNANCE AND CIRCULAR ECONOMY.

*Ramiro Rodríguez Pérez / Javier Cárcel Carrasco / Fabiola Colmenero Fonseca / Juana Mercedes Perlaza Rodríguez / Kevin A. Echeverry Bucurú*



### 2.7-EVALUATION OF THE INTERACTION BETWEEN DAYLIGHT AND OUTDOOR VIEW IN UNIVERSITY BUILDINGS: A CASE STUDY.

*Giacomo Caccia / Matteo Cavaglià / Alberto Speroni / Luis Palmero Iglesias / Tiziana Poli / Andrea Giovanni Mainini*



### 2.8-THE ACOUSTICS OF THE SYDNEY OPERA HOUSE.

*Quiteria Angulo-Ibáñez / Aitana Puig-Rocher*



### 2.9-PERCEPTION OF PUBLIC SPACE THROUGH OUTDOOR ADVERTISING. THE CASE OF MADRID.

*Quiteria Angulo-Ibáñez / Miriam Hernández-García*



**2.10-REGULATORY DEVELOPMENTS ON THE ENERGY EFFICIENCY OF BUILDINGS.**

*Quiteria Angulo-Ibáñez / Mercedes Almenar-Muñoz*



**2.11-RENEWABLE ENERGY TO DIFFERENT ACCESSIBILITY CONDITIONS, THROUGH THE WEATHER CONDITIONS.**

*Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Kevin Echeverry / Juan Francisco Palomino*



**2.12-THERMAL MONITORING AND HEATWAVE INCIDENCE OF TEMPORAL DECARBONIZATION MEASURES AND NATURE BASED SOLUTIONS IN EL GRAO NEIGHBORHOOD, CASTELLON. DIVAIRCITY PROJECT.**

*Amparo León Vinet / Elisa Peñalvo López / Vicente León Martínez / Iván Valencia Salazar*



**2.13-GREEN ROOF ENERGY IMPACT ANALYSIS ON A CLASSROOM BUILDING AT THE TECHNOLOGICAL INSTITUTE OF BOCA DEL RIO.**

*José-Juan Huesca-Lopez / Iván Valencia-Salazar / Elisa Peñalvo-López / Juan-David Garay-Marin / Fabiola Lango-Reynoso*



**2.14-RESCUING EQUITY: A COMPREHENSIVE APPROACH TO ASSESSING SOCIAL SUSTAINABILITY IN URBAN ENVIRONMENTS.**

*María Oliver-Sanz / Alicia Llorca-Ponce*



**2.15-EVALUATION OF ENERGY EFFICIENCY PROPOSALS IN BUILDING M OF THE TECNOLÓGICO NACIONAL DE MÉXICO BOCA DEL RÍO CAMPUS, IN BOCA DEL RÍO, VERACRUZ.**

*Ignacio Z. Carmona-Uscanga / Iván Valencia-Salazar / E. Peñalvo-López / J. David Garay-Marín / Fabiola Lango-Reynoso*



**2.16-IMPACT OF ARCHITECTURAL DESIGN ON THE WELLBEING OF INHABITANTS: A STUDY OF CORRELATIONS IN KEY HOUSING ELEMENTS.**

*María Luisa Nolé / Robi Barranco / María Pérez / J. Luis Higuera-Trujillo /Carmen Llinares*



**2.17-CORRELATION BETWEEN LEED CERTIFICATION AND LOW-CO2E BUILDINGS: TOWARDS A NEAR ZERO CARBON (NZC) DESIGN.**

*Ida Severino / Giacomo Di Ruocco*



**2.18-CARBON NEUTRAL ARCHITECTURE: LCA METHOD "FROM THE CRADLE TO THE CRADLE" FOR THE "ZERO EMISSIONS" DESIGN OF TIMBER BUILDINGS.**

*Ludovica Amorelli / Giacomo Di Ruocco*



**2.19- BREATHE BRICKS. CO2 ABSORBING BRICKS**

*Palmero Sánchez P. / Aurora Martínez Corral A. / Molines Cano J. / Hidalgo Mora J. / Romero Miquel J.*



**2.20-HIGH TECHNOLOGY TO INTERVENE ON THE SUN. SOLAR CONTROL GLASS.**

*Palmero Sánchez P. / García Izquierdo, A.*



**2.21-LIGHT AS PRINCIPAL CONCEPT IN BENEDICTINE MONASTERY CHURCH. MODERN ARCHITECTURE IN CHILE.**

*Suzanne Segeur / Luis Palmero / Graziella Bernardo / Natalia Caicedo*



**2.22-THE REVALUATION OF THE CONTEMPORARY ART IN THE LANDSCAPE THAT HOSTS THEM: THE FIUMARA D'ARTE CASE IN THE NEBRODI NATURAL PARK.**

*Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias*



**2.23-GREEN FACADES AS A RESOURCE FOR ENERGY SAVING AND EFFICIENCY.**

*Luis Manuel Palmero Iglesias / María Isabel Giner García*



**2.24-SUSTAINABLE AND DIGITAL TRANSFORMATION OF OFFICE BUILDINGS: FIELDS OF ACTION IN EXISTING AND NEW BUILDINGS.**

*Anja Henrike Kleinke*



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# CHAPTER 3: NEURAL ENGINEERING

## 3.1-GAMIFIED ARCHITECTURAL DESIGN: ADVANCING EDUCATION WITH EXTENDED REALITY AND AI INSIGHTS.

*Juana Mercedes Perlaza Rodríguez / Fabiola Colmenero Fonseca  
/ Ángela María Díaz-Márquez*



## 3.2-EVALUATION OF PHYSIOLOGICAL RESPONSES IN REAL AND SIMULATED HOUSING ENVIRONMENTS.

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



## 3.3-NEUROARCHITECTURE: DESIGN GUIDED BY PHYSIOLOGICAL SIGNAL DATA.

*M. Pérez-Martínez / J.L. Higuera-Trujillo / C. Llinares*



## 3.4-ILLUMINATING REALITIES: EXPLORING THE EFFECT OF LIGHTING IN HOUSING IN REAL AND VIRTUAL ENVIRONMENTS.

*Nuria Castilla / Juan-Luis Higuera-Trujillo / Carmen Llinares*



## 3.5-EXPLORING PATTERNS IN PRESENCE QUESTIONNAIRES: A COMPARATIVE STUDY.

*Robi Barranco-Merino / Juan Luis Higuera-Trujillo / Carmen  
Llinares Millán*



## 3.6-FOUNDATIONS AND FACTORS IN PRESENCE QUESTIONNAIRES FOR VIRTUAL ENVIRONMENTS.

*Robi Barranco-Merino / María Luisa Nolé Fajardo / María Pérez  
Martínez / Juan Luis Higuera-Trujillo / Carmen Llinares Millán*



## 3.7-MULTIDIMENSIONAL APPROACH OF THE RELATIONSHIP BETWEEN PSYCHOPHYSIOLOGICAL, ECONOMIC, AND HEALTH DIMENSIONS IN BUILDING MATERIAL SELECTION.

*C. Llinares / M. Bravo*



## CHAPTER 4: HERITAGE

### 4.1-PRESERVATION STRATEGIES OF THE BRITISH CEMETERY IN MADRID A TOURIST TOUR THROUGH THE CEMETER.

*Ana Girbés Baroja / Marta Girbés Baroja / Jorge Girbés Pérez*



### 4.2-DESIGN AND ANNI ALBERS: GEOMETRY AND COLOUR IN HER WORKS.

*Liqun Li / Luis Cortés Meseguer / Jorge García Valldecabres*



### 4.3- SUSTAINABLE FACTORS IN THE STUDY AND ANALYSIS OF TRADITIONAL CONSTRUCTION TYPOLOGIES FOR THEIR CONSERVATION IN THE GOLDEN TRIANGLE OF COLOMBIA.

*Echeverry Bucurú Kevin Alexander / Cárcel Carrasco Francisco Javier / Colmenero Fonseca Fabiola / Guzman Ramírez Alejandro /Salas Montoya Andrés*



### 4.4-ANALYSIS AND VALIDATION OF AN INDEX FOR THE ARCHITECTURE OF THE CHURCHES OF THE FRANCISCAN ROUTE IN JALISCO, MEXICO.

*Fabiola Colmenero Fonseca / Javier Cárcel Carrasco / Adolfo Preciado Quiroz / Andrés Salas Montoya / Ramiro Rodríguez Pérez*



### 4.5-INNOVATION AND SUSTAINABILITY: THE FUTURE OF CONSTRUCTION WITH LOCAL MATERIALS AND THE INTEGRATION OF ARTIFICIAL INTELLIGENCE.

*Fabiola Colmenero Fonseca / Javier Cárcel Carrasco / Juana Mercedes Perlaza Rodríguez / Kevin A. Echeverry Bucurú / Ramiro Rodríguez Perez*



### 4.6-SEISMIC VULNERABILITY ASSESSMENT OF THE “ALQUERÍA DE LLEONART” (VALENCIA, SPAIN).

*Arianna Guardiola Villora /Luisa Basset Salom / Isabel Álvarez de Valcárcel*



### 4.7-ARTIFICIAL INTELLIGENCE FOR ARCHAEOLOGICAL GARDEN RECONSTRUCTION.

*Quiteria Angulo-Ibáñez / José David Gordo-Martínez*



### 4.8-THE ENHANCEMENT OF THE SITE AND THE HERMITAGE OF PINTARRAFES CARLET.

*Pablo Ariel Escudero / Luis Cortés Meseguer / Jorge García Valldecabres / Concepción López González*



### 4.9-TEMPLATE ARCHITECTURE AND GAUGED BRICKWORK IN THE DOME OF ESCUELAS PÍAS OF VALENCIA.

*Luis Cortés Meseguer / Jorge Luis García Valldecabres / Concepción López González / Yrma Daniela Villalba Linares*



### 4.10-GRAPHICAL EVOLUTION AND SURVEYINGS OF VALENCIA’S CATHEDRAL.

*Luis Cortés Meseguer / Jorge García Valldecabres / Concepción López González / Pablo Ariel Escudero*



**4.11-REINTERPRETING THE HERITAGE OF THE VALENCIAN MODERN MOVEMENT: CREATION OF A BIM DATABASE FOR THE BUILDING AT GRAN VÍA MARQUÉS DEL TURIA 29.**

*Pablo A. Escudero / Jorge L. García Valldecabres / M. C. López González / Luis Cortés Meseguer*



**4.12-MATERIAL APPROXIMATION OF THE EAST SIDE OF THE MAIN CLOISTER, FORMER CONVENT OF SANTO DOMINGO (VALENCIA, SPAIN).**

*S. Kröner / E. Arias-Valera / L. Osete Cortina / X. Mas-Barberà*



**4.13-FORMAL AND COMPOSITIONAL ASPECTS OF THE GOTHIC TRACERY OF THE MAIN CLOISTER IN THE FORMER CONVENT OF SANTO DOMINGO OF VALENCIA.**

*E. Arias-Valera1 S. Kröner / L. Osete Cortina / X. Mas-Barberà*



**4.14-HERITAGE AND PATHOLOGICAL ANALYSIS OF THE ANTONIO BALLESTER GALLERY.**

*Luis Cortés Meseguer / Pablo Rodríguez Navarro / María Teresa Gil Piqueras / Andrea Ruggieri*



**4.15-PROJECTED WORKS IN THE CHURCH OF SAINT JOHN THE APOSTLE AND EVANGELIST OF MASSAMAGRELL IN THE 20TH CENTURY.**

*Valentina Ciaffoni / Jorge García Valldecabres / Luis Cortés Meseguer / María Concepción López González*



**4.16-REHABILITATION OF THE DOME OF THE CHURCH OF SAN JUAN APÓSTOL AND EVANGELISTA IN MASSAMAGRELL.**

*Valentina Ciaffoni / Jorge García Valldecabres / Luis Cortés Meseguer / María Concepción López González*



**4.17-FEASIBILITY OF INDUSTRIALIZED FACADES IN BUILDING REHABILITATION.**

*M. Iborra-Lucas / John J. Zambrano-Alcivar*



**4.18-DIGITAL RECONSTRUCTION OF THE NABATAEAN ARCH IN PETRA WORLD HERITAGE SITE, JORDAN.**

*Wang Yang / María José Viñals Blasco / Jorge García Valldecabres*



**4.19-THE CONSTRUCTION SYSTEM OF RECONQUEST CHURCHES THE CASE OF THE CHURCH OF LOS SANTOS JUANES IN VALENCIA.**

*José Miguel Molines Cano / Jaime Llinares Millán / Ana Almerich Chulia / Pablo Palmero Sánchez*



**4.20-ANALYSIS OF MINING HOUSING IN SPAIN. STUDY FOR CONVERSION INTO AN ENERGY-EFFICIENT HOUSING PARK.**

*Aurora Martínez-Corral / Domingo Cuéllar*



**4.21-THE EVOLUTION OF THE TRANSFIGURATION CATHEDRAL AS A UNITY OF THE PAST, PRESENT AND FUTURE.**

*Yuliya Poteychuck / Nadiia Yeksarova*



**4.26-LIGHT AS A NATURAL RESOURCE IN THE RELIGIOUS SPHERE. SAN PEDRO MÁRTIR DE FISAC COMPLEX, M.**

*Bernardo, G. / Palmero Iglesias, L. / Segeur Suzanne. / Caicero, N*



**4.22-FACADES ANOMALIES: METHODOLOGY FOR CATALOGING. CASE OF VALENCIA.**

*E. Barelles-Vicente / J. Llinares-Millán*



**4.27-PRELIMINARY STUDIES FOR THE MUSEALIZATION OF THE KASBAH OF TAOURIRT IN OUARZAZATE, MOROCCO.**

*Teresa Gil Piqueras / Pablo Rodríguez Navarro*



**4.23-DETERIORATION OF THE ENVELOPE: DEVELOPMENT OF CARDS FOR IDENTIFICATION AND DIAGNOSIS.**

*E. Barelles-Vicente / J. Llinares-Millán*



**4.28-CATALOGUING AND DOCUMENTATION OF BELL TOWERS WITH SPIRES IN CERAMIC WEDGE-SHAPED BRICKS IN SICILY.**

*Gloria Russo / Mariateresa Galizia / Michele Mangiameli / Pablo Rodríguez Navarro / Teresa Gil Piqueras*



**4.24-TABAKALERA DONOSTIA. HERITAGE APPROACHED AS RESTORATION OR TRANSGRESSION.**

*Palmero Sánchez P. / García Izquierdo, A.*



**4.29-DIGITAL TECHNOLOGY FOR THE KNOWLEDGE AND VALUATION OF ARCHITECTURAL HERITAGE.**

*Giuseppe Angileri / Ornella Fiandaca / Marina Arena / Alessandra Cernaro / Luis Palmero Iglesias*



**4.25-SOCIAL HOUSING AS MODERN HERITAGE: THE CASE OF THE "ANTONIO RUEDA" GROUP.**

*Bernardo, G.4; Palmero Iglesias, L. / García Valdecabres, J.*



**4.30-MILITARY ARCHITECTURE IN THE VICEROYALTY OF PERU: DESIGN, CONSTRUCTION, AND CURRENT STATE OF MILITARY AND FORTIFIED MONUMENTS.**

*Diego Celis-Estrada / Teresa Gil-Piqueras / Pablo Rodríguez-Navarro*



**4.31-DEGRADATION OF THE STONE MATERIALS  
OF THE PILAR CHURCH IN VALENCIA (SPAIN):  
MAPPING AND ANALYSIS USING  
PHOTOGRAMMETRIC TECHNIQUES.**

*Giovanni Brodu / Ana Pérez Vila / Pablo Rodríguez Navarro /  
Teresa Gil Piqueras*



**4.32-INNOVATIVE SUSTAINABLE ROOFING  
STRATEGIES FOR MITIGATING URBAN HEAT  
ISLANDS IN MATER.**

*Juana Mercedes Perlaza Rodríguez / Fabiola Colmenero Fonseca  
/ Carmen Fattore*



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# CHAPTER 5: TECHNOLOGY

## 5.1-DURABILITY PERFORMANCE OF CONCRETE MADE WITH DEMOLITION WASTE.

*J.R. Lliso-Ferrando / L. Mata-Rodríguez / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.2-CURING CONDITIONS INFLUENCE ON THE DURABILITY OF REINFORCED CONCRETE. PART 1. CONCRETE CHARACTERISATION.

*J.R. Lliso-Ferrando / A. Martínez-Ibernón / P. Manzón-Bello / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.3-CURING CONDITIONS INFLUENCE ON THE DURABILITY OF REINFORCED CONCRETE. PART 2. CORROSION MONITORING.

*J.R. Lliso-Ferrando / T. Yáñez Albán / J.E. Ramón-Zamora / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.4-SURFACE-APPLIED CORROSION INHIBITOR EVALUATION ON REINFORCED CONCRETE STRUCTURES. PART 1. APPLICATION AT THE BEGINNING OF THE SERVICE LIFE.

*J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.5-SURFACE-APPLIED CORROSION INHIBITOR EVALUATION ON REINFORCED CONCRETE STRUCTURES. PART 2. APPLICATION DURING THE SERVICE LIFE.

*J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.6-CORROSION IN REINFORCED CONCRETE CONSTRUCTIONS LOCATED IN VALENCIA. CASE STUDY.

*Josep Ramon Lliso-Ferrando / Ana Martínez-Ibernón / I. Gasch Molina / J. M. Gandía-Romero / Manuel Valcuende Payá / J. Soto Camino*



## 5.7-CORROSION RISK IN REINFORCED CONCRETE STRUCTURES LOCATED IN THE MARINE ENVIRONMENT USING ELECTRICAL RESISTANCE MEASUREMENT.

*J.R. Lliso-Ferrando / A. Martínez-Ibernón / R. Vengut-Tro / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.8-GRADING STUDY OF QUARRY AGGREGATES AND RECYCLED AGGREGATES FROM DEMOLITION WASTE.

*J.R. Lliso-Ferrando / A. Arenós-Barrachina / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.9-METHODOLOGY FOR REPAIR OF CORROSION AFFECTED REINFORCED CONCRETE STRUCTURES.

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá*



## 5.10-CORROSION PERFORMANCE OF CONCRETES MANUFACTURED WITH DIFFERENT CEMENTS.

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino*



**5.11-PROBLEMS IN REPAIRS OF REINFORCED CONCRETE STRUCTURES AFFECTED BY CORROSION.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino*



**5.12-CONCRETE RESISTIVITY ANALYSIS UNDER LABORATORY CONDITIONS ON SPECIMENS OF DIFFERENT SIZES.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá*



**5.13-QUICK ESTIMATION OF CHLORIDE DIFFUSION COEFFICIENT FROM NON-STEADY-STATE EXPERIMENTS IN CONCRETE.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino*



**5.14-SIGNIFICANCE OF MACROCELL CURRENTS IN REINFORCED CONCRETE STRUCTURES LOCATED IN THE MARINE ENVIRONMENT.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá*



**5.15-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 1: MORTAR USED.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá*



**5.16-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 2: PASSIVATING MORTAR.**

*J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá*



**5.17-ENERGY DEMAND REDUCTION IN REINFORCEMENT CONCRETE STRUCTURES MONITORING SYSTEMS. 2 vs. 3 ELECTRODES.**

*A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá*



**5.18-HUMIDITY VARIATION ESTIMATION IN HARDENED CONCRETE MATRIX BY MEANS OF SENSOR SYSTEM.**

*A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / J.M. Gandía-Romero / M. Valcuende Payá*



**5.19-ESTIMATION OF OXYGEN AVAILABILITY IN CONCRETE USING A SENSOR SYSTEM.**

*A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá*



**5.20-PCA MODEL FOR HARDENED CONCRETE pH DETERMINATION. VOLTAMMETRIC SENSOR.**

*A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / J.M. Gandía-Romero / M. Valcuende Payá*



**5.21-TECHNOLOGICAL RESEARCH DEVELOPMENT FOR CIRCULAR CONSTRUCTION.**

*Benito, F.J / Fernández, A.B. / Miñano, I.B / Parra, C.J /Rodriguez, C/ Carrion, E / Mateo, J.M*



**5.22-PATHOLOGIES IN POLYETHYLENE WATER SUPPLY NETWORKS. DESIGN PRINCIPLES.**

*A.M. Romero Sedó / P. Arrué Burillo / J.F. Romero i Miquel*



**5.23-VARIATION IN CORROSION RATE AFTER THE APPLICATION OF CYCLIC LOADS IN REINFORCED CONCRETE.**

*P. Monzón-Bello / A. Martínez-Ibernón / J.R. Lliso-Ferrando / R. Vengut-Tro*



**5.24-STUDY OF CORROSION IN ELECTRICAL PROTECTION EARTH NETWORKS WITH CONTACT CONNECTION.**

*Javier Cárcel-Carrasco / Juan Manuel Sánchez-Rodríguez / Fabiola Colmenero Fonseca / María del Carmen Ixtepan*



**5.25-MODELING AND THERMAL STUDY IN TRNSYS OF A GREEN WALL IN A GOVERNMENTAL BUILDING IN THE MUNICIPALITY OF VERACRUZ.**

*V. Ortiz-García / C.A. Sosa-Villalobos / G. Domínguez-Sánchez / A. Rodríguez-Andrade / E. Peñalvo-López / I. Valencia-Salazar*



**5.26-DESIGN OF A COMPUTATIONAL MODEL TO OPTIMIZE THE PERFORMANCE OF DIFFERENT VENTILATED WALL SOLUTIONS: SIMULATIONS AND COMPARISONS.**

*Francesco Paolo R. Marino / Luis Manuel Palmero Iglesias*



**5.27-DESIGN OF A COMPUTATIONAL MODEL TO OPTIMIZE THE PERFORMANCE OF DIFFERENT VENTILATED WALL SOLUTIONS: ALGORITHM STRUCTURING.**

*Francesco Paolo R. Marino*



**5.28-DEVELOPMENT OF BIO-BASED MATERIALS FOR BUILDING APPLICATIONS WITH THERMO-ACOUSTIC CHARACTERISTICS.**

*Suzanne Segeur / Paula Nuñez / Alan Huircaman / Luis Palmero*



**5.29-APPLICATION OF DRONES AND 3D PHOTOGRAMMETRY FOR SURVEYING HARD-TO-REACH SITES.**

*Pablo Rodríguez-Navarro / Teresa Gil-Piqueras / Ana Pérez Vila / Andrea Ruggieri*



**15.30-BIOCONSTRUCTION AND BIOMATERIALS. MYCELIUM FUNGUS, THE BIOARCHITURE SUSTAINABLE BIOMATERIAL OF THE FUTUR.**

*K. Essamhi-Saidi / C. José. Parra-Costa / I. De La Paz. Miñano-Belmonte / J. M. Mateo / F.J. Benito*



**5.31-A LUMINESCENT PERMEABLE 3D-PRINTED  
CONCRETE LANDSCAPE CHAIR AND ITS  
CONSTRUCTION METHOD.**

*Ye Yinlin / Du Xu / Sun Xiaoyan / Wang Hailong*



**5.32-COCONUT FIBRE IN MORTAR MATRIX.**

*Gina San Andrés Zevallos / Javier Chonillo Portés / Joseph  
Cedeño Palacios / Melina Villacreses López*



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# CHAPTER 6: TOWN PLANNING

## 6.1-GET OUT OF HERE: URBAN DESIGN AGAINST PEOPLE.

*Arianna Guardiola Villora / Elena Navarro Astor*



## 6.2-EFFICIENCY IN PUMPING PRESSURE GROUPS OF URBAN WATER SUPPLY NETWORKS.

*P. Arrué Burillo / A.M. Romero Sedó / J.F. Romero i Miquel*



## 6.3-STANDARDS IN THE DESIGN OF RAILWAY STATION SPACES.

*Juan B. Font Torres / Jorge L. García Valdecabres, / Luis Cortés Meseguer*



## 6.4-AIR AS TOOL OF ARCHITECTURALFORMATION. FEATURES OF SUPPORT-FREE AEROSTATIC COATING.

*Nadiia Yeksarova / Volodymyr Yeksarov*



## 6.5-TURIA RIVER VIRTUAL TOUR: INTEGRATION OF SPHERICAL PANORAMAS IN CULTURAL LANDSCAPE HERITAGE

*Mónica Val Fiel / Marina Puyuelo Cazorla / Lola Merino Sanjuan*



## 6.6-ANALYSIS OF PATHOLOGIES IN BUILDINGS AND RISING WATER TABLE IN BÉTERA (VALENCIA). PROPOSAL FOR A PIEZOMETRIC PROTOCOL FOR PUBLIC WARNING.

*Javier Rodrigo Ilarri / Aurora Martínez-Corral / Claudia-Patricia Romero-Hernández / Lucía Belenguier Espinosa / M<sup>a</sup> Elena Rodrigo-Clavero*



## 6.7-THE TURIA GARDEN: ORGANIZATION AND CONSTRUCTION OF SPACES IN A LINEAR PARK.

*Lola Merino Sanjuán / Mónica Val Fiel / Marina Puyuelo Cazorla*



## 6.8-URBAN EVOLUTION OF THE OLD JEWISH QUARTER OF VALENCIA.

*Concepción López González / Pablo Ariel Escudero / Luis Cortés Meseguer / Jorge García Valdecabres*



## 6.9-OPEN SPACE AND URBAN SUSTAINABILITY: THE CASE OF THE CITY OF VALENCIA 'NEW CHALLENGES AND OPPORTUNITIES'.

*M<sup>a</sup> Emilia Casar Furió / M<sup>a</sup> Jesús Romero Aloy*



## 6.10-RESILIENT ARCHITECTURE: PROTECTING BUILDINGS AGAINST FLOODS. SPECIAL REFERENCE TO THE EFFECTS PRODUCED BY THE DANA OF OCTOBER 2024.

*M<sup>a</sup> Jesús Romero Aloy / M<sup>a</sup> Emilia Casar Furió / Ángel Trinidad Tornel*



**6.11-THE IMPORTANCE OF URBAN AND TERRITORIAL PLANNING CONCERNING FLOOD RISK MANAGEMENT REFLECTIONS AFTER THE DANA IN VALENCIA.**

*Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.*



**6.12-THE NEED FOR PREVENTIVE ACTIONS IN BUILDING: REFLECTIONS AFTER THE DANA IN VALENCIA: REFLECTIONS AFTER THE DANA IN VALENCIA.**

*Martínez Beltrán, E. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.*



**6.13-RETHINKING EDUCATIONAL SPACES AFTER A NATURAL DISASTER, THE ISOLATED HIGH-ALTITUDE DEPRESSION.**

*Rodrigo Catalán, P. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Tordera Llisterrí, L.*



**6.14-THE GENESIS OF THE TURIA GARDEN I. RICARDO BOFILL.**

*Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri*



**6.15-THE GENESIS OF THE TURIA GARDEN II. RICARDO BOFILL.**

*Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri*



**6.16-THE CITY OF ARTS AND SCIENCES I. SANTIAGO CALATRAVA.**

*Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri*



**6.17-CITY OF ARTS AND SCIENCES II. SANTIAGO CALATRAVA.**

*Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri*



**6.18-GIS ANALYSIS OF URBAN DEVELOPMENT: VALENCIA FROM THE TURIA RIVER TO THE TURIA GARDEN.**

*Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias*



**6.19-THE EVOLUTION OF TECHNICAL AND URBAN PLANNING REGULATIONS THAT HAVE ALLOWED THE PHENOMENON OF VERTICAL GROWTH IN THE CITY OF MESSINA.**

*Graziano Tomaselli*



# CHAPTER 7: HUMAN RESOURCES

## 7.1-SUSTAINABLE BUILDING OF THE FUTURE: IMPACT OF COLD SINTERING ON MATERIAL DESIGN IN IBERO-AMERICAN UNIVERSITIES.

*Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente Martínez / Andrés Salas Montoya / Ramiro Rodríguez Pérez*



## 7.2-MATERIALES SUSTAINABLE ACADEMIC TRANSFORMATION IN THE UNIVERSITIES OF THE FUTURE: SOLID-STATE ELECTROLYTES AND COLD3E IN MATERIALS CHEMISTRY.

*Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente Martín / Alejandro Guzmán Ramírez / Laurent Yolanda Gómez Zamorano*



## 7.3-PRIORITIES IN HOME BUYING: THE IMPACT OF ACTIVE BUYERS' INVOLVEMENT ON THE PERCEPTION AND EVALUATION OF HOMES.

*María Luisa Nolé / Carla de Juan / Antoni Montañana / Carmen Llinares*



## 7.4-INTEGRATION OUTDOOR SHELTERS IN THE CITY FOR HOMELESS PEOPLE. BUILDING HUMAN PROTECTION, COEXISTENCE AND LANDSCAPE.

*Marina Puyuelo Cazorla / Lola Merino Sanjuan / Mónica Val Fiel*



## 7.5-ENHANCEMENT OF LOCAL SUPPLY CHAINS FOR SUSTAINABLE DEVELOPMENT: WATAMU, KENYA.

*Stefania De Gregorio*



## 7.6-TRAUMA-INFORMED ARCHITECTURAL DESIGN POST-CATASTROPHE: REFLECTIONS AFTER THE DANA IN VALENCIA.

*De-Juan-Ripoll, C. / Calabuig Montesinos, V. / Martínez Beltrán, E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterri, L.*



## 7.7-DANA OCTOBER 2024. TRIBUTE TO COLLECTIVE RESILIENCE AND SOLIDARITY IN THE FACE OF POLITICAL INCOMPETENCE.

*Palmero Iglesias, L. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Beltrán, E. / Rodrigo Catalán, P. / Tordera Llisterri, L.*



## 7.8-THE AUTEUR SOCIAL HOUSING FROM THE STUDY OF THE ORIGINAL DESIGN TO THE ENERGY REQUALIFICATION.

*Giuseppe Angileri / Graziella Bernardo / Giuseppina Currò / Giovanni Francesco Russo / Luis Palmero Iglesias*



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23/10/2025*