

ORAL CONTRIBUTIONS

Monday 8th April (Morning)
Assembly hall of Rectorate

Plenary Session 1: Clean Environment
Chairwoman: Assoc. Prof. Dorota Krawczyk

10:00-10:20	Invited	Asociación de Fabricantes Andaluces de Refrigeración (AFAR)	The importance of Heat Pumps R&D on the design of systems for HVAC in Zero Net Energy Buildings design (Aurelio García Blázquez-KEYTER) The atmospheric water generation solution for achieving sustainable buildings and cities (Carlos García Blázquez-GENAQ)
10:20-10:35	ICGC-19-011	F. Comino*, F. Peci, M. Ruiz de Adana	Very low energy consumption HVAC systems for NZEB buildings. The potential of indirect evaporative coolers in South European climates
10:35-10:50	ICGC-19-040	Irene Amigo Gamero*, Beatriz Montalbán Pozas	Approach to the analysis of thermal comfort in existing public educational buildings for the improvement of energy efficiency: SmartPolitech
10:50-11:05	ICGC-19-054	Enrique Casado*, M. Carmen García, Dorota A. Krawczyk, Antonio Rodero	An argon non-thermal microwave plasma for treatment of BETX contaminated water via OH radical oxidation
11:05-11:20	ICGC-19-063	Beatriz Montalbán Pozas*, Irene Amigo Gamero, Agustín Sánchez Domínguez	Social inmotoc to improve energy efficiency in public buildings: EfiPublic Project

Special Plenary Session: VIPSKILLS Project
Chairman: Prof. Dr. Antonio Rodero Serrano

12:00-12:20	Invited	Dorota Krawczyk (Coordinator of VIPSKILLS Project) VIPSKILLS students: Gloria Ortega Hidalgo Vicente J. González Blanco Carlos A. Marcado Porrás	VIPSKILLS Project: A new learning experience in Engineering.
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Plenary Session 2: Energy Source and Renewable Energy
Chairman: Prof. Dr. Antonio Rodero Serrano

12:20-12:40	Invited	Antonio Fernández Serrano (MAGTEL)	MAGTEL, una década construyendo la energía del mañana
12:40-12:55	ICGC-19-004	Miguel Crespo Chacón*, Aonghus McNabola, Juan Antonio Rodríguez Díaz, Jorge García Morillo	Pump-as-turbines for energy recovery: An attractive solution for auto consumption in agricultural farms
12:55-13:10	ICGC-19-012	F. Peci* F. Comino, F. Taboas, M. Ruiz de Adana	Testing overheating in an unglazed transpired collector in the summer season
13:10-13:25	ICGC-19-025	Eva Contreras*, Javier Herrero, Cristina Aguilar, María José Polo	Supporting the small hydropower systems management through seasonal forecast of river streamflow
13:25-13:40	ICGC-19-061	José Adolfo Lozano*, Diego Carou, Gustavo Medina, Alberto García	Estrategia de reducción del impacto ambiental en edificios del sector terciario mediante el análisis de ciclo de vida

Monday 8th April (Afternoon)
Assembly hall of Rectorate

Plenary Session 3: New Trends in Thermal Insulation for Energy Efficient Buildings Design
Chairman: Prof. Dr. José Ramón Jiménez Romero

16:00-16:20	Invited ICGC-19-059	Carlos Rivera Gómez, Carmen Galán Marín; Eduardo M. Diz Mellado, Victoria López Cabeza	Thermodynamic behavior of transitional spaces in architecture. Reviewing the main thermal tempering parameters.
16:20-16:40	ICGC-19-045 ICGC-19-046	Júlia Pereira*, Henriqueta Teixeira, Maria da Glória Gomes, António Moret Rodrigues	Assessment of an early degradation of glazing systems with damaged solar control films and the impact in the thermal performance. Numerical simulation of the performance of glazing systems with solar control window films
16:40-16:55	ICGC-19-010	M. Porcaro*, M. Ruiz de Adana, F. Comino, A. Peña, E. Martín-Consuegra, T. Vanwalleghem	Energy saving potential of green roofs in South European climates
16:55-17:10	ICGC-19-026	Andrius Gulbinas*, Daiva Makutėnienė, Airida Tylienė	Selection of criteria for the Green Roof Decision Support System
17:10-17:25	ICGC-19-034	Jorge Suárez Macías*, Juan María Terrones, Saeta, Francisco J. Iglesias Godino, Francisco A. Corpas Iglesias	Desarrollo de materiales aislantes para la construcción con la utilización de áridos expandidos en matriz geopolimérica.
17:25-17:40	ICGC-19-070	Juan Jesús de la Torre Bayo*, Carmen Díaz-López, Emilio Martínez Ibarra, Emilio Molero Melgarejo, Montserrat Zamorano	Análisis bibliográfico de clasificaciones climáticas y su aplicabilidad en edificación.



International Conference on GREEN CONSTRUCTION

Tuesday 9th (Morning)
Assembly hall of Rectorate

Plenary Session 4: Advanced Construction Materials

Chairman: Prof. Dr. Luís Sánchez Granados

9:30-9:50	Invited	Paloma Ballester Ortiz (GRUPO PUMA)	La cal – Material Natural para la Rehabilitación de Edificios
9:50-10:05	ICGC-19-053	Volodymyr Shamrai*, Antonio Rodero Serrano, José María Fernández, José Ramón Jiménez, Valentyn Korobyichuk	The chemical treatment of natural stone influences on infrared spectra
10:05-10:20	ICGC-19-062	Fabiano Tavares*, Rubén Beltrán, Mercedes Sánchez	Sensors for the non-destructive characterization of concrete durability
10:20-10:35	ICGC-19-058	Adrián Pastor*, Manuel Cruz-Yusta, Ivana Pavlovic, Luis Sánchez	Mejora de las propiedades biocidas de los morteros de restauración mediante carbendazima adsorbida en sustratos inorgánicos
10:35-10:50	ICGC-19-060	Valentyn Korobiichuk*, Oleksandr Sydorov, Iryna Leonets, Viktor Kravets, Stanislav Stovpnyk	Influence of high temperatures on physico-mechanical and decorative properties of labradorite
10:50-11:05	ICGC-19-065	Rubén Beltrán*, Mercedes Sánchez, FabianoTavares	Production of nanosilica, nanoalumina and nanotitania dispersions for external application on hardened mortars
11:05-11:20	ICGC-19-076	David Suescum Morales*, David Cantador Fernández*, José Ramón Jiménez Romero, José María Fernández Rodríguez	CO ₂ capture with hydrotalcites of MgAl-CO ₃ and organohydrotalcites for application as sink urban greenhouse gas.

Plenary Session 5: Circular Economy

Chairman: Prof. Dr. José María Fernández Rodríguez

12:15-12:30	ICGC-19-006	José Manuel Moreno-Maroto*, Manuel Uceda-Rodríguez, Carlos Javier Cobo-Ceacero, Teresa Cotes Palomino, Carmen Martínez García, Jacinto Alonso-Azcárate	Recycling of 'alperujo' (olive pomace) as a key additive in the manufacture of lightweight aggregates
12:30-12:45	ICGC-19-030	D. Eliche-Quesada*, P. García Cobo, E. Bonet-Martínez, L. Pérez-Villarejo, E. Castro	Sustainable geopolymers from metakaolin and olive-pine bottom ash



**International Conference
on GREEN CONSTRUCTION**

12:45-13:00	ICGC-19-035	Juan María Terrones Saeta* , Jorge Suárez Macías , Francisco J. Iglesias Godino , Francisco A. Corpas Iglesias	Estudio de la vitrificación en materiales cerámicos de subproductos mineros altamente contaminantes.
13:00-13:15	ICGC-19-043	Inmaculada Bote Alonso* , Beatriz Montalbán Pozas	Key concepts around the Circular Economy and the areas of urbanism, architecture and construction
13:15-13:30	ICGC-19-071	Zoraida Sánchez Roldán* , María Martín Morales , Ignacio Valverde Espinosa , Ignacio Valverde Palacios , Montserrat Zamorano	Dosage adjustment due to the use of recycled aggregate in the manufacture of concrete
13:30-13:45	ICGC-19-075	Lucia J Fernandez-Carrasco , Nourjmajal Gourgani	Natural fibers for sustainable cement reinforcement