

CONFERENCE PROGRAMME



1st International Conference on
Urban Growth and the Circular Economy
Urban Growth 2018



8 – 10 May 2018, Alicante, Spain

Organised by:
Wessex Institute, UK & University of Alicante, Spain

Supported by:
WIT Transactions on the Built Environment
International Journal of Sustainable Development and Planning

NOTES TO CHAIRMEN AND PRESENTERS

Chairmen must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.

Authors must meet with the Chairman of their session
10 minutes before the start of the session.

This programme is subject to last-minute alterations, please refer to the conference noticeboard for the most up-to-date information.

Conference Chairmen:

S. Syngellakis, Wessex Institute, UK

J. Melgarejo, University of Alicante, Spain

International Scientific Advisory Committee:

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Tuesday, 8th May 2018

08:30 Registration

09:00 **Opening Addresses**

Welcome and Introduction from both Chairmen

Session 1

Session Chairman: S. Syngellakis

Invited:

09:30 Urban growth and energy supply in African cities: the case of Ethiopia
A. Hoeltl, R. Brandtweiner, T. Berger & R. Bates

10:00 Towards carbon free cities: interplay between urban density and energy demand
U. Dietrich & H. H. Chen

REFRESHMENT BREAK

Session 2

Session Chairman: R. Brandtweiner

Invited:

10:50 The floodable park "La Marjal" (Alicante, South East Spain) as a paradigmatic example of water reuse and circular economy
A. Jodar Abellan, J. Melgarejo & M.I. Lopez Ortiz

11:20 Drivers of water supply costs in Mediterranean Spain
P. Fernandez Aracil, A. Ortuno Padilla & J. Melgarejo

11:40 Temporal evolution of urban growth and its impact on runoff rates generation
A. Jodar Abellan, J. Valdes Abellan, C. Pla & F. Gomariz Castillo

12:00 Approach to urban metabolism of the municipality of Almassora as a tool for a Sustainable City
I. López Chofre, E. Gielen & J. S. Palencia Jiménez

LUNCH

Tuesday, 8th May 2018

Session 3

Session Chairman: J. Melgarejo & A. Molina

- 14:00 **Invited:**
Preservation of the hydraulic heritage in landscapes under permanent water stress. New approach to utility and sustainability criteria
M. M. Martinez Almira
- 14:30 **Invited:**
Efficient water management in the smart city
A. Molina Gimenez
- 15:00 The effects of environmental globalization on water resources: in search of the right to water
M. F. Zaragoza Marti & A. Zaragoza Marti
- 15:20 Circular economy, human behavior and law
A. Morais da Rosa & A. L. Schmidt Ramos

REFRESHMENT BREAK

Session 4

Session Chairman: A. Molina

- 16:10 Ornamental plants and cut flowers production in periurban areas. An economic and environmental analysis of the Barcelona Metropolitan Region
X. Recasens & O. Alfranca
- 16:30 Design solutions for instrumental hydroponic greenhouses for receptive purposes
F. Cumo, B. de Lieto Vollaro, E. Pennacchia, R. Roversi & V. Sforzini
- 16:50 Water management plans in Panama: from IWRM to water security
V. Vega
- 17:10 Urban park and aging people in China: a new challenge from old people's "Parents blind date"
A. Li & Q. Yang

END OF DAY 1

Wednesday, 9th May 2018

Session 5

Session Chairman: P. Marti

- 09:00 City repair: the vibrant transformation of public open spaces: analysis and derivation of detailed measures
U. Dietrich
- 09:20 Peri-urban residential areas at the margins of current trends in urban growth: towards sustainable transition paths?
J. Drouilles, S. Lufkin & E. Rey
- 09:40 Integrative and modeling approach to sustainability modes of living and neighbourhood development
T.P. Moroke, C.B. Schoeman & I.M. Schoeman
- 10:00 "Slow your motions" interventions in urban spaces towards a livable neighborhood. Study case of Hamm-Nord, Hamburg, Germany
J. Benachio, Xh. Haveriku & P. Zaluski
- 10:20 Undeveloped land: is it development opportunity or planning problem?
M. Alsulaiman

REFRESHMENT BREAK

Session 6

Session Chairman: To be confirmed

- 11:10 **Invited:**
Waterfront landscapes in Spanish cities. Regeneration and urban transformations
P. Marti, C. Garcia Mayor & A. Melgarejo
- 11:40 Construction costs estimating model for low rise residential buildings
A. Alshibani, O. Alshamrani & M. Essam Shaawat
- 12:00 Coastal line changes in Mediterranean cities: anthropogenic or natural
P. Marcet, J. Navarro Pedreno & J. Soria
- 12:20 Demographic and dwelling models by artificial intelligence: urban renewal opportunities in Spanish coast
F. J. Abarca Alvarez, F. S. Campos Sánchez & R. Reinoso Bellido
- 12:40 Use of applications with georeferenced contacts 'dating apps' to identify creative areas
P. Tomas Castello, J. Lopez Baeza & C. Pastor Garcia

LUNCH

Wednesday, 9th May 2018

Session 7

Session Chairman: To be confirmed

- Invited:**
- 14:30 Mobility and collateral effects on Aguascalientes city heritage
A. Acosta Collazo
- 15:00 Using Blockchain Technology in Human Food Chain Provenance
M. Guo & X.J. Liu
- 15:20 Traffic operation on the road network with recurrent congestions
A. Szele & L. Kisgyorgy
- 15:40 Participatory Planning of Livable Neighborhood: The Case of Hamburg
L. Garcia Rios, C. Moshia, H. Hui, U. Dietrich

REFRESHMENT BREAK

Session 8

Session Chairman: A. Acosta Collazo

- 16:50 Seismic risk through social vulnerability: a methodological proposal for the evaluation of the seismic vulnerability in the coast of the province of Alicante
P. Aznar Crespo & A. Aledo Tur
- 17:10 Risk oriented approach to competition assessment on the global renewable energy sources market
G. Chebotareva
- 17:50 Environmental design and planning strategies to mitigate waste condition in nightlife zones – the case of Reeperbahn Street, Hamburg, Germany
N. Fallahranjbar, H. H. Chen & U. Dietrich
- 18:10 Land subsidence and its effects on the Urban area of Tepic City, México
W. H. Herrera León, J. P. Martínez, M. Hernández Marín, R. Padilla Cenicerros & M. de la Luz Perez Rea

END OF DAY 2

CONFERENCE DINNER—confirm your attendance with the Conference Coordinator

Thursday, 10th May 2018

Session 8

Session Chairman: R. Brandtweiner

- 09:00 Mechanisms involved in the removal of emerging contaminants by a combined system UASB-MBR
M. A. Bernal Romero del Hombre Bueno, N. Boluda Botella & D. Prats
- 09:20 Non-polymeric chemicals or additives associated to the microplastic particulate fraction in a treated urban effluent
J. Bayo, S. Olmos & J. López Castellanos
- 09:40 The reuse of reclaimed water in the urban area. A cost-benefit analysis
A. del Villar
- 10:00 The impact of cooperation on the implementation of the DescarteON WEEE reverse logistics pilot project in Brazil
E. E. Fernandes Augusto, J. Demajorovic & J. Melgarejo Moreno

REFRESHMENT BREAK

Session 9

Session Chairman: S. Syngellakis

- 10:50 High density architecture as a local factor of circular economy
L. Valenzuela, R. Tisi & L. Helle
- 11:10 Airbnb on the Costa Blanca. Diagnosis and proposal of social and tourist integration
A. Ortuno, A. Aledo & I. Jimeno
- 11:30 Using social networks data to improve planning and design of Smart Cities
R. Perez del Hoyo, H. Mora & J. Francisco Paredes
- 11:50 Cities under planning siege: the Palestinian case
R. Khamaisi

CLOSURE OF URBAN GROWTH 2018 BY STAVROS SYNGELLAKIS

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home.