

SAUD 2010

The Second International Conference on
Sustainable Architecture and Urban Development

12- 14 July, 2010 Amman, Jordan



The premier sustainability conference in the region
Over 120 speakers
Over 500 delegates

Organized by:
The Center for the Study of Architecture
in the Arab Region, Jordan

In Collaboration with
The University of Dundee, UK
The University of Jordan, Jordan

Introduction

The increasing urbanization of many parts of the world coupled with other globally critical issues such as environmental pollution, energy consumption, and resources shortage are resulting in major urban crises in many parts of the world. A strong emphasis nowadays is placed upon improving the sustainability of the built environment "from cradle to cradle". This is attributed to the growing public awareness of the importance of "sustainable development" practices, which also enhances quality of life. Public governance and the construction industry are confronted by the push for sustainability. A fresh and holistic approach to designing, constructing and managing the built environment addressing building and the spatial environment is required, which will need to address buildings and the entire spatial environment. New sets of regulatory practices, indicators, measurements, and priorities are emerging with application at all scales - from individual buildings to the district and city-scale level.

Building on the successful international conference Sustainable Architecture and Urban Development held in Tripoli, Libya in 2009 and in order to explore and map the challenges and opportunities of sustainable development within the urban environment, The Center for the Study of Architecture in the Arab Region (CSAAR) and Ministry of Public Works and Housing, Jordan and the University of Dundee, School of Architecture, UK have joined together to organize the second edition for the international conference on Sustainable Architecture and Urban Development (SAUD '10).

The conference aims to address the various aspects of urban development considering the implications of applying the principles of sustainability. Of particular interest for the conference is sustainability in the Arab world cities. These cities are undergoing one of the fastest rates of development in the world. However, this rapid, often erratic, and sometimes traumatic growth has not occurred without unwanted consequences in the built environment.

The theme of the conference is "Sustainable Architecture and Urban Development". It aims to provide a forum to examine and discuss solution-oriented, practical methods for implementing sustainable development, and to stimulate more ideas and useful insights regarding architecture and urban development within the context of sustainability. The conference welcomes papers that address issues related to best practice of sustainability in urban design, planning and development in the Arab region and elsewhere. In the interest of tackling these issues from multiple perspectives as well as disciplinary, we invite a wide array of research approaches, ranging from critical-theoretical interrogations to experimental-empirical studies that would encompass not only the spatial and physical aspects of the built environment, but also the social, economic, legislative, cultural and ecological contexts and consequences. The event will feature international prominent Key Speakers, Academic Sessions, Roundtable Discussions and other interactive discussions, to ensure that all participants will greatly benefit from this conference and its international format.

Conference Topics

Urban Planning & Urban Design for Sustainability

- Urban sustainability and the move to low carbon development
- Integrating of Renewable Energy Sources for Urban development
- Eco-Design and Eco-Friendly Development
- Eco-System and Biodiversity
- Transit-Oriented Development: Health and Walkability
- Emergent Urban Patterns
- Retrofitting the Existing City
- Green Development and Construction Systems
- Sustainable Housing and Compact Urban Neighborhoods
- Traditional Neighbourhoods Design/Neotraditional Design
- Eco-Mobility: Sustainability in Transport
- Innovative Waste Management Concepts
- Landscape Architecture, Productive Urban Landscape and Urban Farming

Design for Sustainability

- Low Energy Architecture
- Low Cost Building
- Design with Nature
- Sustainable Construction Materials, Systems & Technologies
- Smart and Bioclimatic Architecture
- Building Envelopes and Innovative Façade Systems
- Sustainable Vernacular Architecture
- Ecological, Social and Cultural Sensitivity
- Sustainable Urban Design
- Sustainable Design and Human Behavior: Changing Lifestyles
- Sustainable Renovation and Restoration
- Adaptive Re-use and Brownfield Development
- Cultural Heritage and Eco-Tourism
- Zero-Carbon & Low Energy Housing and Mixed-use Development
- Green Building (case studies)

Whole Life Urban Sustainability and its Assessment

- Measures, Assessment Theory, Complexity and Uncertainty
- Measuring Sustainability: Assessment and Buildings Performance
- Sustainability Assessment of Cities and Districts; Emphasizing Environmental, Economic and Social Assessment.
- Whole Life Thinking
- Whole life Assessment
- Sustainability Assessment Methods, Process, Applications and Limitations
- Benchmarking Systems and Schemes for Best Practice
- Parameters of Sustainable Urbanism
- Indicators of Sustainability

Governance & Local Planning for Sustainability

- Stakeholders Participation
- Sustainability in Developing Countries
- Need for Change - Implications of Legislation on Local Planning
- Legislative Empowerments for Sustainability
- Economical Viability versus Sustainability
- Accountability in Governance Practices: Impacts on Sustainability
- Governance Structures and Resource Management
- Community Governance
- Social Inclusion, Equity and Design for an Ageing Population
- Planning for Sustainability: local versus national initiatives

Who Should Attend

The conference will be of interest to designers, architects, engineers, planners, researchers, consultants, developers, professionals and managers working in industry, decision maker, municipal officials, universities, research organizations and government; involved in the planning and management of the built environment and urban development policy.

Conference Co-Chairs

Steffen Lehmann, University of Newcastle, Australia.

Husam Al Waer, The University of Dundee, UK.

Jamal Al-Qawasmi, CSAAR, Jordan.

Benefits of Attending

- Present your research within a unique forum.
- Increase your knowledge about sustainable architecture and urban development
- Collaborate with experts from around the world.
- Ways to improve the sustainability of the built environment
- Keep up-to-date with the latest advances and trends in the field.
- Participation in discussions regarding the balance between economic, environmental and social outcomes;
- Interactive environment that provides the opportunity to learn from experts in the field.
- Papers presented at CSAAR Conferences appear regularly in notable reviews, publications and databases.

International Scientific Committee

A. Elmualim, University of Reading, UK

A. Y. Rashed, The British University in Egypt

A. Tsikaloudaki, Aristotle University of Thessaloniki, Greece

A. van Nes, TU Delft, The Netherlands

A. Bennadji, Robert Gordon University, UK

A. Elnokaly, University of Lincoln, UK

A. Al-musaed, Archcrea institute, Denmark

A. Kaka, Heriot-Watt University, UAE

A. van Timmeren, Heriot-Watt University, UAE

A. Al-Hajj, TU-Delft, The Netherlands

A. Orbasli, Oxford Brooks University, UK

A. Othman, The British University in Egypt

B. Brownell, University of Minnesota USA

C. Owen, University of Tasmania, Australia

C. Du Plessis, Council for Scientific & Industrial Research, South Africa

D. ElKerdany, Cairo University, Egypt

D. Gopinath, University of Dundee, UK

D. Clements-Croome, The University of Reading, UK

E. M. Mazzola, The University of Notre Dame, Italy

F. Fadli, University of Liverpool, UK

F. Serdoura, FAUTL, Portugal

F. Lattke, Fachgebiet Holzbau - TU München, Germany

G. Post, The Amman Institute, Jordan

H. Alshuaikhat, KFUPM, Saudi Arabia

H. Thomsen, Gehl Architects, Copenhagen, Denmark

H. Ekadi, Deakin University, Australia

J. Choi, Seoul National University, Korea

J. J. Ferrer Fores, Universitat Politècnica de Catalunya, Spain

J. Kolo, American University of Sharjah, UAE

K. Jones, University of Greenwich, UK

L. Makhoulfi, University of Constantine, Algeria

L. Steil, The University of Notre Dame, USA

M. Sibley, The University of Manchester, UK

M. Nikolopoulou, University of Bath, UK

M. Deakin, Edinburgh Napier University, UK

M. Haris, Mark Harris, Architects, USA

M. Haase, NTNU, Norway

M. B. Ozdeniz, Eastern Mediterranean University, Cyprus

M. Joachim, Terreform ONE, USA

M. El-Haram, The University of Dundee, UK

M. Gadi, University of Nottingham, UK

M. A. Kamal, KFUPM, KSA

M. R. Masnavi, University of Tehran, Iran

M. F. Khamidi, Universiti Teknologi Petronas, Malaysia

M. A. Tirmizi, National College of Arts, Pakistan

M. Ababsa, IFPO, Jordan

N. Hamza, Newcastle University, UK

N. Lechner, Auburn University, USA

N. H. Wong, National University of Singapore, Singapore

P. Lombardi, Politecnico di torino, Italy

P. Huovila, VTT, Finland

P. Jones, Cardiff University, UK

P. Hanachi, University of Tehran, Iran

R. Lorch, Building Research & Information, UK

R. Fay, University of Tasmania, Australia

S. Salat, CSTB, France

S. Saeed, University of Bahrain, Bahrain

S. Ahmed, Bangladesh University of Engineering Technology, Bangladesh

S. B. Riffat, University of Nottingham, UK

S. Bandyopadhyay, Nottingham Trent University, UK

S. Roaf, The University of Heriot watt, UK

T. Gado, University of Dundee, UK

T. Shakur, Edge Hill University, UK

T. Schroepfer, Harvard University, USA

V. Soebarto, The University of Adelaide, Australia

V. Buhagiar, University of Malta, Malta

W. Wang, Pacific Northwest National Laboratory, USA

W. Chi-Nguyen CAM, RSP, Singapore

Y. Ahmad, University of Malaysia, Malaysia

Z. Alwan, Northumbria University, UK

Z. S. Mahmoud, Al-Baath University, Syria

Keynote Speakers

Prof. Raymond J Cole
University of British Columbia, Canada

Prof. Gerhard Hausladen
Technische Universität München, Germany

Program Draft

Featured Opening Sessions
Over 120+ Presentations

Major Educational Programs on:

* Introduction to Green & Renewable Energy Projects

* Introduction to Clean Development Mechanism (CDM) Projects

* Challenges in Sustainable Construction, the Impact of Sustainability

Featured international prominent speakers, plenary sessions, workshops, and interactive discussions with experts and participants.

Publications

Conference Proceedings

All papers accepted for publication will be published in a conference proceedings (4 volume book), which will be available to delegates at the time of registration. In addition, papers will be published in a volume of CSAAR Transactions on the Built Environment (ISSN 1992-7320).

Journal Publication

A selection of outstanding papers will be published in one of the following peer reviewed print journals:

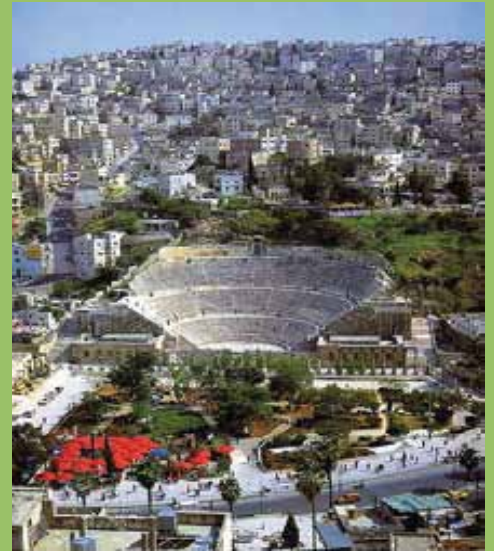
a. Journal of Green Building, USA

b. Journal Intelligent Buildings International, UK

Location

Amman is the capital and largest city of Jordan. The city has a population of more than 2.5 million and is located in a hilly area of northwestern Jordan. Visitors enjoy the Amman area's scenic views and ancient Roman structures. Amman sits on a plateau at an elevation of more than 2,500 feet above sea level. The city has a Mediterranean climate with four distinct weather seasons.

Amman is very well known for its seven hills that are burst with stone colored houses of plane roofs. Its hills get a remarkable admiration by the tourists. It is called the White City after its luminous white houses that date to many past ages. The city is simply a combination of the old world and the new world. It may be considered one of the oldest cities on earth. Many civilizations have lived in Jordan, we mention some of them: Ammonites, Babylonians, Nabateans, Romans. Many of the wonderful places in Jordan are less than one hour driving from Amman, i.e., Dead Sea, the Decapolis of Jordan, Jerash, Philadelphia. Umm Qais (the Roman Gadara), Tabaqat Fahl – (ancient Pella), Petra, and many more.



Partners

The University of Dundee, School of Architecture, UK
 The University of Jordan, Jordan

International Council for Research and Innovation in Building and Construction (CIB), Netherland
 The International Initiative for a Sustainable Built Environment (iiSBE), Canada
 The United Nations Environment Programme (UNEP)

Sponsors

The Center for the Study of Architecture in the Arab Region, Jordan
 The University of Dundee, School of Architecture, UK
 Greater Amman Municipality, Jordan
 The Arab Potash company, Jordan

Endorsers

Energy Center, The University of Jordan, Jordan
 Jordanian Architects Society, Jordan
 Jordan Engineers Association, Jordan
 Jordan Green Building Council, Jordan
 Jordanian Renewable Energy Society, Jordan
 National Energy Research Center, Jordan
 SUE-MoT, UK
 Project Management Institute, Jordan Chapter



For More Info & Registration:
<http://www.csaar-center.org/conference/saud2010/>
 3 Easy Ways to Register:
 Fax online email
 Tel : +962 6 5541824
 Fax: +962 6 5541825
 Email: saud10@csaar-center.org

Title: Dr. Mr. Mrs. Ms. Prof. Registration for: Conference Workshop

Name: _____

Affiliation / Company: _____

Address: _____
Street Address

_____ City _____ Country

Phone: _____ Fax: _____

Email: _____ Date of Registration: _____

Green workshops

The following workshops will take place in conjunction with SAUD 2010 Conference. Workshops are organized by CSSAR in Collaboration with Terra Vertis.

Date: Sunday, July 11, 2010

Duration: 4 hours, each workshop

Instructor: To be announced

Location: Amman, Jordan

Number of Participants: Maximum 30

Language: The language of instruction will be English

Fees: 400 USD for each workshop

Deadline for Application: Applications will be accepted until the workshop is full

Registration: Registration for workshops can be made online at conference website:

<http://www.csaar-center.org/conference/saud2010/registration/index.htm>

Workshop I: Introduction to Green & Renewable Energy Projects

- * Definition of RE, different types of RE, and how/what to implement of REs (prospects for MENA region)
- * An overview of current green businesses and projects locally and world-wide
- * In-depth understanding of different forms of energy and transferring from one energy form to another
- * Knowledge and understanding about different methods for use of renewable energy and the technology in practice
- * Procedures to assess, analyze, and integrate knowledge about different forms of renewable energy and their suitability in environments with different conditions
- * RE & EE in the construction sector, cost, technology and capacity needed
- * Opportunities and Risks
- * Financial feasibility of RE & EE construction projects
- * Where and how to start
- * Case study

Workshop II: Introduction to Clean Development Mechanism (CDM) Projects

- * The broad outlines of the CDM Regulations and the reasons for their introduction
- * The responsibilities and roles of the various parties involved: Client, Designer, Planning Supervisor, Principal Contractor, Contractors etc
- * Hazard Recognition - at the design stage
- * Construction Techniques - Pre-stressed concrete, piling, Excavation, Hazardous Materials.
- * Construction - Traffic, Working at Heights, Cranes, Confined Spaces, Excavations, Materials, Hot Work, Substances/Chemicals, Access, Segregation
- * Risk Assessment and Method Statements - The importance of these in tendering and Contract Processes to fulfill the objectives of CDM
- * Construction Phase Health & Safety Plans
- * Duty Holder Responsibilities - Client, Designer, Planning Supervisor, Principal Contractor, Contractors
- * Case Study

Workshop III: Challenges in Sustainable Construction, the Impact of Sustainability

- * Definition of sustainable construction
- * Walk-through the current Laws, regulations and incentives for Green construction in MENA region
- * Overview of existing Green Construction rating/evaluation mechanisms
- * Risk assessment for medium-scale, large-scale Green buildings
- * Case study