

Wednesday, 6 November 2019

08:00 - 09:30	REGISTRATION
09:30 - 10:00	Opening Ceremony
	Welcome Speech Prof. Stephen Wilhite, Senior Vice President of Academic Affairs and Student Success
	Welcome Address Ahmad Sakhrieh, AGYA Alumnus, Organizing Committee Chair
10:00 - 10:30	NETWORKING COFFEE
10:30 - 10:50	SESSION A URBAN INFRASTRUCTURE: BUILDINGS, ENERGY, UTILITIES, RESILIENCE Chair: Abdalla Elbashir, AGYA Alumnus, University of Khartoum
10:30 - 12:30	Sustainable Smart City
10:50 - 11:10	Smart Cities and Smart Citizens
11:10 - 11:30	Smart Dubai Initiative Overview
11:30 - 11:50	Smart Connections with Investors
11:50 - 12:10	Stitching the Urban Fabric-Reinventing Lost Space
12:10 - 12:30	Linking Smart Cities Concept to Energy-Water-Food Nexus: The Case of Masdar City in Abu Dhabi, UAE
12:30 - 14:00	Mohammed Saqr Al Zaabi, American University of Ras Al Khaimah

LUNCH BREAK

14:00 - 15:20

14:00 - 14:20

14:20 - 14:40

14:40 - 15:00

15:00 - 15:20

15:20 - 15:50

15:50 - 17:10

15:50 - 16:10

16:10 - 16:30

16:30 - 16:50

16:50 - 17:10

17:10

SESSION B
SMART MOBILITY: TRANSPORTATION & AUTONOMOUS SYSTEMS

Chair: Salma Balzadeh, AGYA Alumna, Max Planck Institute of Molecular Plant Physiology
 Comparing Smart Cities in Arab Countries and Germany: Energy and Mobility
 Marc Ringel, AGYA Member, HFWU – Nuertingen-Geislingen University
 Smart Mobility: Application to Intersections
 Assia Belbachir, Institut Polytechnique des Sciences Avancées
 New Technologies and Innovation Systems of The Hashemite University in Jordan
 Mohd Sami Ashhab, The Hashemite University
 A Governance Infrastructure for the Digital Commons
 Zakia Soomaroo, Reiner Lemoine Institute

NETWORKING COFFEE

SESSION C
DIGITAL TRANSFORMATION: BIG DATA AND SMART CITIES
Chair: Henda Mahmoudi, AGYA Alumna, International Center for Biosaline Agriculture (ICBA)
 Machine Learning for Future Sustainable Digital Buildings
 Djamel Djenouri, AGYA Member, Research Centre on Scientific and Technical Information
 Drug Design in Smart and Sustainable Cities
 Alya Arabi, Zayed University
 Big Data: A Case Study
 Mohammed Al Nahhal, American University of Ras Al Khaimah
 Smart Villages in Bavaria: A Living Lab Approach to Prevent Urbanization
 Diane Ahrens, Technische Hochschule Deggendorf

TRANSFER TO HOTEL

18:00 - 19:00

19:30

20:00

Thursday, 7 November 2019

09:00 - 10:40	SESSION D SMART ENVIRONMENTS: TRANSFER AND TECHNOLOGIES FOR SMART CITIES Chair: Olfa Khelifi, AGYA Alumna, University of Tunis El Manar
09:00 - 09:20	Sustainable Campuses: The Role of Solar Energy
09:20 - 09:40	Zero Energy House: AURAK Solar Decathlon Experience
09:40 - 10:00	Low-Flux Nanofluid Direct Absorption Solar Collectors (DASC): Effect of Wall-Particle Interaction
10:00 - 10:20	Anaerobic Digestion as a Source of Bioenergy: Towards Sustainable Development Solutions
10:20 - 10:40	Smart Cities' Ecosystems
10:40 - 11:10	NETWORKING COFFEE

AGYA Working Group Meeting
Only for members of the AGYA Working Group: Energy, Water and Environment

GATHERING AT THE HOTEL LOBBY AND TRANSFER TO THE RESTAURANT

CONFERENCE DINNER

Chair: Olfa Khelifi, AGYA Alumna, University of Tunis El Manar
 Sustainable Campuses: The Role of Solar Energy
 Osama Ayadi, The University of Jordan
 Zero Energy House: AURAK Solar Decathlon Experience
 Tawfiq Abu Hantash, American University of Ras Al Khaimah
 Low-Flux Nanofluid Direct Absorption Solar Collectors (DASC): Effect of Wall-Particle Interaction
 Eiyad Abu-Nada, Khalifa University
 Anaerobic Digestion as a Source of Bioenergy: Towards Sustainable Development Solutions
 Zeina Hobaika, AGYA Member, Saint Joseph University of Beirut
 Smart Cities' Ecosystems
 Mohammed Hamdan, The University of Jordan

- 11:10 - 12:30** **SESSION E**
SMART PLANNING:
URBAN ANALYSIS & URBAN PASSENGER
TRANSPORTATION SYSTEM
Chair: Fayçal Djeflal, AGYA Alumnus, Batna University
- 11:10 - 11:30** **Designing the Smart City: The Gap between Planning and Implementation**
 Wasfi Zqoul, Biehler Architektur, PEHT GmbH
- 11:30 - 11:50** **Architecture and Metabolism**
 Thomas Corbasson, Chartier - Corbasson Architects
- 11:50 - 12:10** **Rethinking Urban Form: New Insights for Energy Efficiency and Walkability in the UAE**
 Khaled Galal Ahmed, UAE University
- 12:10 - 12:30** **Energy Management System according to ISO50001 in the Jordanian Water Sector**
 Louy Qoaider, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- 12:30 - 14:00** **LUNCH BREAK**
- 14:00 - 15:30** **AURAK Renewable Energy Competition**
 Poster Presentation
- 15:30 - 16:00** **NETWORKING COFFEE**
- 16:30 - 17:00** **Closing Words**
- 17:00** **TRANSFER TO THE HOTEL**
- 19:30** **GATHERING AT THE HOTEL LOBBY AND TRANSFER TO RESTAURANT**
- 20:00** **FAREWELL DINNER**

Workshop Organizers:

Ahmad Sakhrieh
 AGYA Alumnus
 American University of Ras Al Khaimah

Olfa Khelifi
 AGYA Alumna
 University of Tunis El Manar

Marc Ringel
 AGYA Member
 HFWU - Nuertingen-Geislingen University

Local Contacts:

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Workshop Venue:

**American University of Ras Al Khaimah,
 School of Engineering, Building G**

Conference Hotel:

DoubleTree by Hilton Resort & Spa Marjan Island
 Marjan Island Blvd, Ras Al Khaimah, UAE

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International Workshop
 of the Arab-German Young Academy of Sciences and Humanities

Smart and Sustainable Cities: Towards Sustainable Development Solutions

American University of Ras Al Khaimah

Ras Al Khaimah, UAE

6-7 November 2019



IN COOPERATION WITH



