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International Workshop

Interdisciplinary Solutions for a Sustainable Future

**Arab-German Young Academy
of Sciences and Humanities (AGYA)**

21 – 22 February 2024, Ras Al Khaimah, UAE

American University of Ras Al Khaimah (AURAK)



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الجامعة الأمريكية في رأس الخيمة
AMERICAN UNIVERSITY OF RAS AL KHAIMAH

Organized by AGYA alumni

Ahmad Sakhrieh

American University of Ras Al Khaimah, UAE

Salma Balazadeh

Leiden University, The Netherlands

All times correspond to local UAE time.

Tuesday, 20 February 2024

Arrival Day

Venue: Radisson Resort Ras Al Khaimah, Marjan Island

19:00 Get-Together Dinner

Wednesday, 21 February 2024

Venue: Ibn Khaldun Auditorium, American University of Ras Al Khaimah (AURAK)

08:30 Transfer to AURAK

09:30 – 10:00

Opening & Welcome Addresses

Stephen Wilhite

Senior Vice President of Academic Affairs and Student Success, American University of Ras Al Khaimah, UAE

Ahmad Sakhrieh (AGYA alumnus)

Organizing Committee Chair, American University of Ras Al Khaimah, UAE

Lobna Said (AGYA member)

AGYA Co-President, Nile University, Egypt

10:00 – 10:30

Networking Coffee

Session I

10:30 – 12:30

Building the Future: A Contemporary Approach to Sustainability

Chair: Henda Mahmoudi (AGYA alumna)

International Center for Biosaline Agriculture (ICBA), UAE

How Unethical Can You Be?

Tia Kansara

United Nations, Replenish Earth Ltd, and Kansara Hackney Ltd, UK

100% Heritage – A Modern Movement

Wido Quist

Delft University of Technology, The Netherlands

The Challenges of Local Sustainability Research in the Global South and Implications for Innovation

Dawud Ansari (AGYA member)

German Institute of International & Security Affairs (SWP), Germany

Local Solutions for Climate Adaptation: Examples from Paris

Youssef Diab

American University of Ras Al Khaimah, UAE

Shaping the Future of Mobility in Ras Al Khaimah

Logain Kamal

Ras Al Khaimah Transportation Authority, UAE

12:30 – 13:30

Lunch Break

Venue: Saqr Library Auditorium, American University of Ras Al Khaimah (AURAK)

Session II

13:30 – 15:00

Sustainable Cutting-Edge Solutions

Chair: Khaled Hossin

American University of Ras Al Khaimah, UAE

The New Era of Antibody-Drug Conjugate - The Presence and Future

Akram Atalla

College of Pharmacy, University of Palestine

Sustainable Healthcare and Impact of Nanotechnology

Maha Nasr (AGYA alumna)

Ain Shams University, Egypt

Harnessing Nature's Power: Mycelium as a Key Player in Sustainable Energy Solution

Soumaya Boudagga

Amity University Dubai, UAE

Innovation in Sustainable Infrastructure through Digital Transformation

Esraa Altwassi

BIM Department Design Zone, Saudi Arabia

15:00 – 15:20

Networking Coffee

Session III

15:20 – 17:00

Sustainable Solutions for Water, Agriculture, and Energy Management

Chair: Basem Yousef

American University of Ras Al Khaimah, UAE

A Hydroeconomic Model for Managing Groundwater Resources in Arid Regions

Hamed Assaf

American University of Ras Al Khaimah, UAE

Climate Change and Sustainable Agriculture: A Smart Greenhouse Solution

Lobna Said (AGYA member)

Nile University, Egypt

Optimal Scheduling of Rainwater Collection Vehicles

Mohammed Alnahhal

American University of Ras Al Khaimah, UAE

Energy Efficiency Measures in Educational Buildings

Hessa Saleh AlShehhi and Khaled Hossin

American University of Ras Al Khaimah, UAE

Venue: Radisson Resort Ras Al Khaimah, Marjan Island

20:00

Gala Dinner

Thursday, 22 February 2024

Venue: Saqr Library Auditorium, American University of Ras Al Khaimah (AURAK)

08:30

Transfer to AURAK

Session IV

09:30 – 10:40

Smart Solutions for Sustainable Infrastructure

Chair: Muataz Al Hazza

American University of Ras Al Khaimah, UAE

Housing Projects and Mobility Solutions in Algiers

Lilia Makhloufi (AGYA member)

Ecole Polytechnique d'Architecture et d'Urbanisme, Algeria

Heritage Preservation and Sustainable Development

Fatima Humaid Alsuwaidi

Ministry of Culture, UAE

Learning from Traditional Architecture

Eman Assi

American University of Ras Al Khaimah, UAE

RAK Energy Efficiency and Renewables Strategy 2040: Progress and Plans

Nada Al Safarini

Ras Al Khaimah Municipality, UAE

10:40 – 11:10

Networking Coffee

Session V

11:10 – 12:30

Transformative Approaches to Sustainable Energy

Chair: **Maissa Farahat**

American University of Ras Al Khaimah, UAE

Potential Utilization of Compressed Air Energy Storage and Ancillary Expansion Cooling Process

Abdul Hai Al-Alami

Sharjah University, UAE

Advancing Photovoltaic Viability in the UAE: A Holistic Approach through Battery Optimization, Agrivoltaic, and Machine Learning

Mohamad Kharseh

American University of Ras Al Khaimah, UAE

Reverse Engineering for Sustainable Innovation in Combustion Engines

Ahmad Alshwawra

German Jordanian University, Jordan

12:30 – 13:30

Lunch Break

13:30 – 14:00

Closing Session

14:00 – 17:00

AURAK Renewable Energy Competition

About AGYA

The Arab-German Young Academy of Sciences and Humanities (AGYA) is based at the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW) and at the Academy of Scientific Research and Technology (ASRT) in Egypt. It was established in 2013 as the first bilateral young academy worldwide. AGYA promotes research cooperation among outstanding early-career researchers (3–10 years post-PhD) from all disciplines who are affiliated with a research institution in Germany or in any Arab country.

The academy effectively supports the interdisciplinary projects and collaborative initiatives of its members in various fields of scientific research, science policy and education. AGYA is funded by the German Federal Ministry of Education and Research (BMBF) and various Arab and German cooperation partners.

About AURAK

The American University of Ras Al Khaimah (AURAK) is a public, non-profit, independent, coeducation institution of higher education. Its staggering 1.3 million square foot campus delivers integrated American-style undergraduate and graduate programs with a strong focus on the local indigenous culture.

AURAK is committed to sustainable investment and does not invest in fossil fuels. Instead, the university concentrates its investment on the local community and environmentally sustainable enterprises. AURAK's strong commitment to sustainable investment reflects its responsibility to promote environmentally responsible practices and protect our planet's future.

AURAK is officially licensed by the Ministry of Education of the United Arab Emirates to award degrees/qualifications in higher education.

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