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ARAB-GERMAN
YOUNG ACADEMY
OF SCIENCES AND
HUMANITIES

Interdisciplinary Workshop

Thermal Comfort Perceptions, Microclimatic Diversity and Climate Change

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

23 – 24 March 2022

American University of Ras Al-Khaimah
Ras Al-Khaimah, United Arab Emirates



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AGYA project partners:

Prof. Dr. Ahmad Sakhrieh, AGYA alumnus
AURAK, United Arab Emirates

Dr. Jan Friesen, AGYA alumnus
*Helmholtz Centre for Environmental Research - UFZ,
Germany*



AURAK
الجامعة الأمريكية في رأس الخيمة
AMERICAN UNIVERSITY OF RAS AL KHAIMAH

Tuesday, 22 March

Venue: Marjan Island Resort and Spa – Al Liwan Restaurant

19:00 Get-Together Dinner

Wednesday, 23 March

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

08:00 **Meeting in the Lobby & Transfer to AURAK**

09:00 – 09:30

Opening & Welcome Address

Ahmad Sakhrieh

AGYA alumnus, Organizing Committee Chair, AURAK, UAE

Jan Friesen

AGYA alumnus, Helmholtz Centre for Environmental Research - UFZ, Germany

Mahmoud Abdel-Hafiez

AGYA Co-President, Goethe University Frankfurt, Germany & Uppsala University, Sweden

09:30 – 10:00

Networking Coffee

10:00 – 12:30

Human Centered Approaches for Well-being and Sustainability

Chair: Mahmoud Abdel-Hafiez

AGYA Co-President, Goethe University Frankfurt, Germany & Uppsala University, Sweden

Personal Cooling Vests to Improve Thermal Comfort of Active Humans in Hot Outdoor Climates

Nesreen Ghaddar

American University of Beirut, Lebanon

Designed for Outdoor Comfort: The Singaporean Pavilion and Other Interventions at the Dubai EXPO 2020

Wolfgang Kessling

Transsolar Energietechnik, Germany

Urban Heat Diversity and Personal Exposure

Uwe Schlink

Helmholtz Centre for Environmental Research, UFZ, Germany

Neighborhood Environment & Walkability Cities

Mohammed Alkatan

AGYA member, Public Authority for Applied Education and Training, Kuwait

12:30 – 14:00

Lunch Break

14:00 – 15:20

Outdoor Thermal Comfort: Integrated Perspectives

Chair: Khaled Hossein

AURAK, UAE

Psychological and Emotional Effects of Climate Change (digital presentation)

Luise Fischer

AGYA member, University of Leipzig, Germany

Urban Spaces in Climate Change: Co-Creation of Climate-Adaptive and Inclusive Spaces for Cities in Transformation

Mais Jafari

Technical University Dortmund, Germany

15:20 – 15:40

Networking Coffee

15:40 – 17:00

Outdoor Thermal Comfort: Green Strategies

Chair: Mohammad Alnahhal

AURAK, UAE

Thermal Comfort and Architectural Design

Liudmila Cazacova

AURAK, UAE

Desert Agroforestry Using Plants Native to Extreme Ecosystems: Environmental and Ecological Considerations

Henda Mahmoudi

AGYA alumna, International Center for Biosaline Agriculture (ICBA), UAE

Ahmed Debez

AGYA alumnus, Centre de Biotechnologie de Borj Cedria (CBBC), Tunisia

19:00

Dinner, Marjan Island Resort and Spa – Al Liwan Resturant

Thursday, 24 March

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

08:00

Meeting in the Lobby & Transfer to AURAK

09:00 – 10:40

Water-Energy Sensitive Design Solutions

Chair: Muataz Al Hazza

AURAK, UAE

Smart and Sustainable Cities in the MENA Countries: Combining Sustainable Growth and Climate Adaption?

Jan Friesen

AGYA alumnus, Helmholtz Centre for Environmental Research, UFZ, Germany

Diurnal Radiative Cooling Impact in Mitigating Urban Heat Island Effect

Kamel Ghali

American University of Beirut, Lebanon

Outdoor Thermal Comfort: A Case Study from The University of Jordan

Jamil Al Asfar

University of Jordan, Jordan

10:40 – 11:10

Networking Coffee

11:10 – 12:30

Renewable Energy Systems for Outdoor Thermal Comfort

Chair: Kadhim Alamara

AURAK, UAE

Utilizing of Renewable Energy Systems for Outdoor Thermal Comfort: Opportunities and Challenges

Ahmed Al-Salaymeh

National University College of Technology, Jordan

Kholoud Hassouneh

University of Jordan, Jordan

Outdoor Thermal Comfort in Ras Al Khaimah

Akshay Datar

REEM, RAK Municipality

12:30 – 13:30

Lunch Break

13:30 – 14:00

Closing Session

14:00 – 17:00

Visit to Outdoor Thermal Comfort Projects in Ras Al Khaimah

20:00 – 22:00

Dinner, Marjan Island Resort and Soa – Al Liwan Resturant