



مؤتمر عجمان الدولي للبيئة
AJMAN INTERNATIONAL ENVIRONMENT CONFERENCE

AIEC2018

Ajman 5th International Environment Conference on
CLIMATE CHANGE & SUSTAINABILITY

حكومة عجمان
Government Of Ajman

دائرة البلدية والتخطيط
Municipality & Planning Department



CONFERENCE PROGRAMME

Day 1: Tuesday March 06, 2018

Venue: Sheikh Zayed Center for Conferences and Exhibitions, Ajman University, Ajman - UAE

- 08:30 – Registration
- 09:00 – Arrival of *H.H. Sheikh Humaid bin Rashid Al-Nuaimi*, Member of the Supreme Council, Ruler of Ajman
- Inauguration of the Sponsors' Exhibition

OPENING CEREMONY:

Venue: Theater Hall

- 09:15 – National Anthem
- Holy Quran
- Opening Address: *H.H. Sheikh Humaid bin Rashid Al-Nuaimi*, Member of the Supreme Council, Ruler of Ajman, Patron of AIEC2016
- Documentary Film
- Conference Speech: *H.E. Dr. Thani bin Ahmed Al Zeyoudi*, Minister of Climate Change and Environment
- Speech of Guest Honor
- Ajman Annunciation
- Honoring Ceremony

09:45 COFFEE BREAK

SESSION 1: Keynote Addresses – PART I:

Venue: Theater Hall

Chair: *Terrence Cooke*, Director of Business Development, Science Target Inc., CANADA

- 10:15 001KA: Climate Change and Smart Water Management. *Prof. Banu Örmeci*, Professor and Jarislowsky Chair in Water and Health, Director of Global Water Institute, Department of Civil and Environmental Engineering, Carleton University, CANADA
- 10:35 002KA: Solutions to Reduce the Effect of Climate Change in the UAE. *Prof. Ali Sayigh*, Chairman of WREC & Director General WREN, Chairman IEI and Med Green Forum, UK
- 10:55 004KA: Resilience, Biodiversity, and Adaptation to Climate Change: the Ottawa Example. *Prof. Nicholas Stow*, Senior Planner in the Resiliency and Natural Systems Planning Unit at the City of Ottawa, in Ontario, Canada, CANADA
- 11:15 006KA: Groundwater Management and Protection in Times of Climate Change: Challenges and Opportunities in the MENA Region. *Prof. Ralf Klingbeil*, Senior Expert Water, Environment, Sustainable Development -BGR - Federal Institute for Geosciences and Natural Resources, GERMANY



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11:35 Q&A Discussion

12:00 LUNCH BREAK

SESSION 2: OREC TECHNICAL WORKSHOP

Venue: Theater Hall

Chair: TBA

13:00 Technical Workshop on “Investing in Community-Owned Solar Power Projects”. *Janice Ashworth*, General Manager, The Ottawa Renewable Energy Co-op (OREC), Ottawa, CANADA

13:45 Q&A Discussion

14:00 COFFEE BREAK

SESSION 3:

Venue: Theater Hall

Chair: TBA

14:15 390AM: Assessing Environmental Impact of Climate Change on Desert Ecosystems: A Review. *Latifa Saeed AlBlooshi*, UAE University, UAE

14:30 369AM: Energy Performance Resilience of UAE Buildings to Climate Change. *Kirk Shanks*, The British University in Dubai, UAE

SESSION 3A:

Venue: Room A

Chair: TBA

117AM: Opening the ‘Pandora’s Box’ of North-South Transfers of Climate Change Mitigation and Adaptation Technologies: The Case of Domestic Biogas Technology (DBT). *Hyrine Gesare Munga*, University of Auckland, NEW ZEALAND

168AM: Assessing Greywater Reuse for Home Gardening to Improve Household Food Security within Two Villages in Fetakgomo Local Municipality. *Pabalelo Radingoana*, University of Limpopo, SOUTH AFRICA



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Disseminating Scholarly Knowledge

CONFERENCE PROGRAMME

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| <p>14:45 368BP: A Study to Assess Outdoor Water Evaporation in the Context of Alternative Water Reuse for Reducing Energy Consumption in a Medical Facility Case Study, Abu Dhabi. <i>Geraldine Seguela</i>, Cardiff Metropolitan University, UAE</p> <p>15:00 232SC: Constructability of an Estidama and Building Codes Compliant SIP System in Adaptive Public Housing in UAE. <i>Khaled Galal Ahmed</i>, UAE University, UAE</p> <p>15:15 147AM: The Political Economy of National and Energy Security: The Cases of the UAE and China. <i>Panteleimon Sklias</i>, American University in the Emirates, UAE</p> <p>15:30 116CB: High-Definition NDVI Sampling of Arabian Protected Areas to Assess Rangeland Condition. <i>David Gallacher</i>, Zayed University, UAE</p> <p>15:45 334AM: A Comparison between a Stand-Alone and Grid-Connected Roof Mounted PV Solar System under Abu Dhabi Net Metering Scheme Using HOMER. <i>Issah M. Alhamad</i>, Mechanical Engineering Department. UAE University , UAE</p> <p>16:00 Q&A Discussion</p> <p>16:15 End of Day</p> | <p>179AM: Assessment of CO₂ Emissions from Major Industries in Saudi Arabia. <i>Hussein Hoteit</i>, King Abdullah University of Science and Technology, SAUDI ARABIA</p> <p>343AM: Policy Driven Solar Installation and Industry: Stakeholder Analysis towards Energy Transition in Japan. <i>Yugo Tanaka</i>, Kyoto University, JAPAN</p> <p>374AM: Addressing the Best Policies for Halal Ecotourism Management in Adapting Climate Change Challenges: The Philippine Case. <i>Mariam Saidona Tagoranao</i>, Universiti Sains Islam Malaysia, MALAYSIA</p> <p>141AM: Energy Policies for Environmental Issues and Climate Change in Turkey. <i>Hasan Arman</i>, UAE University, Al-Ain, UAE</p> <p>376AM: Autonomy in Building Process to Adapt the Climate Change Impact: A Study of the Coastal Settlements in Bangladesh. <i>Shantanu Biswas Linkon</i>, Khulna University, BANGLADESH</p> <p>Q&A Discussion</p> |
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18:30 Gala Dinner (Venue: TBA)

Day 2: Wednesday March 07, 2018

Venue: Sheikh Zayed Center for Conferences and Exhibitions, Ajman University, Ajman – UAE

08:30 – Registration

SESSION 4: Keynote Addresses – PART II:

Venue: Theater Hall

Chair: TBA

09:00 005KA: The City of Toronto's Climate Change Adaptation Strategy to Mitigate Urban Flooding. *Prof. Michael D'Andrea*, Chief Engineer and Executive Director - Engineering & Construction Services - City of Toronto, CANADA

09:20 007KA: Ajman Sewerage System. *Xavier Mathieu*, Ajman Sewerage Company; Ajman, Ajman Emirate, UAE

09:40 003KA: Unconventional Water Resources as Climate Change Adaptation Measure. *Prof. Vladimir Smakhtin*, United Nations University Institute for Water, Environment and Health (UNU-INWEH); Hamilton, Ontario, CANADA

10:00 Q&A Discussion

10:20 Coffee Break and Poster Presentations Session*

SESSION 5:

Venue: Theater Hall

Chair: TBA

11:00 269BP: Environmental Best Practices, It Begins with Us: Business, Local Governments and International Community Should Work Together. *Jung Wan Lee*, Boston University, USA

SESSION 5A:

Venue: Room A

Chair: TBA

229BP: Mechanical and Thermal Properties of Perlite and Rubber Insulation Cement Mortar: Experimentally and Analytically. *Ahmed Salem Al-Tamimi*, King Fahd University of Petroleum & Minerals, SAUDI ARABIA



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- 11:15 139BP: In Search of Feasible Environmental Policy Making Tools in the United Arab Emirates: The Multi-Goal Approach. *Ahmed Mansour*, UAE University, UAE
- 11:30 148SD: The Leading European and American Quintuple-Helix Model for Inclusive Sustainable Transportation: Co-Creation with Businesses, Innovators, Policy Makers, Society and the Environment. *Adrian Solomon*, South East European Research Centre, GREECE
- 11:45 188BP: Best Practices in Environmental Governance: The Nordic Experience. *Habibul Haque Khondker*, Zayed University, UAE
- 12:00 110BP: Tragedy Associated with Environmental Commons – An Application of The Skinnerian Behaviour Modification Strategies in Teacher Training. *Olalekan Elijah Ojedokun*, Obafemi Awolowo University, NIGERIA
- 12:15 101BP: Renewable Energy Utilization - Aspects and Innovations: Sustainable, Green, and Smart Buildings in the Emirate of Ajman. *Abdul Salam Darwish*, Phoenix renewable Energy Centre, UK
- 12:30 107SD: Achieving Sustainable Industrialization: Critical Analysis of Egypt's Sustainable Industrial Development Strategy and Assessment of the Potential for EIPs. *Suzanna El Massah*, Zayed University, UAE
- 12:45 –Q&A Discussion
- 154BP: Deficient Legislations Sanctioning Oil Spill and Gas Flaring in Nigeria; A Need for a Review of the Petroleum Industries Bill towards Better Environmental Regulation in Nigeria's Oil and Gas Sector. *Chukwuemeka Chuks-Ezike*, Robert Gordon University, UK
- 276BP: Assessment of water quality of River Assi by using WQI, Varanasi, India. *Sachin Mishra*, Indian Institute of Technology (BHU) Varanasi, INDIA
- 250BP: Formation of Hierarchical Zinc Oxide Nanostructures for Solar Energy Converters and Photovoltaics. *Sergiy N. Lavrynenko*, National Technical University "Kh.P.I.", UKRAINE
- 277BP: Analysis of cool roof passive techniques for residential buildings in subtropical humid climate. *K K Pathak*, Indian Institute of Technology (BHU) Varanasi, INDIA
- 198BP: The Design of Public Health Management System Information Control Based on Software Define Networking (SDN). *Ayotuyi Tosin Akinola*, Centre of Excellence, University of Zululand, SOUTH AFRICA
- Green Energy is the future Energy. *Riadh H. AL-Dabbagh*, Ajman University, Ajman, UAE
- Q&A Discussion



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SESSION 5B:

Venue: Room B
Chair: TBA

- 11:00 138CB: Simulations of Conjunctive Use with MODFLOW in Agricultural Region of Colorado River Delta, Mexico. *Kedir Mohammed Bushira*, Universidad Autonoma de Baja California(UABC), MEXICO
- 11:15 136CB: Use of Remote Sensing Data in Assessment Land Cover Changes, Land Use Patterns, and Land Capabilities in Al-Qassim Region, Saudi Arabia. *Yousef Nazzal*, Zayed University, UAE
- 11:30 191CB: Mapping Cultural Ecosystem Services in Different Landscapes of the Uzbek Ugam Chatkal National Nature Park. *Madina Bekchanova*, UNDP, UZBEKISTAN
- 11:45 308BP: Dibbin Transect Model: A New Framework for Mainstreaming Biodiversity Conversation into Land Use Planning. *Deema Mohammad Abu Thiab*, Consolidated Consultants Group CCG, JORDAN
- 12:00 291SC: Impact of Green Spaces on the Urban Micro-climate through Landsat 8 and TIRS data, in Varanasi, India. *Ashwani Kumar Agnihotri*, Indian Institute of Technology (BHU) Varanasi, INDIA

SESSION 5C:

Venue: Room C
Chair: TBA

- 316SC: How to Build a Smart Climate City Conserving and Using Biodiversity. *Gabriela Teodorescu*, Valahia University of Targoviste, ROMANIA
- 333SC: Current and Alternative Scenarios for Reducing Carbon Emission: A Case Study from Muscat Express Highway Lighting System. *Ahmed Al-Mayahi*, Sultan Qaboos University, OMAN
- 165SC: Increased Fossil Fuel Consumption: Implications on Energy Efficiency and Economic Growth. *Kehinde Damilola Ilesanmi*, Department of Economics, University of Zululand, , SOUTH AFRICA
- 317SC: Sustainable City Transport Development and Reduction of Greenhouse Gases Emissions Through Introduction of Biodiesel Fuel. *Kakha Karchkhadze*, Ilia State University, Georgia, GEORGIA
- 184SD: The Study of Product Obsolescence: Finding Optimal Lifespan of Electronic Product Using Game Theory Approach. *Rafika Farah Maulia*, University of Indonesia, INDONESIA



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12:15 142CB: Ecological Niche Modeling of Important UAE Tree and Shrub Species using MaxEnt and Global Environmental Data. Taoufik Saleh Ksiksi, UAE University, UAE

12:30 320SD: Assessing and Evaluating Above Ground Biomass (AGB) and Evaluating Carbon Sequestered Using Medium to High Resolutions Satellite Imagery. *Basam Dahy*, UAE University, UAE

12:45 Q&A Discussion

13:00 Lunch

SESSION 6:

Venue: Theater Hall
Chair: TBA

14:00 280CB: Rehabilitation of Coastal Habitats to Protect Biodiversity and Livelihood from Climatic and Non-Climatic Factors - A Vital Management Tool. *J.K. Patterson Edward*, Suganthi Devadason Marine Research, INDIA

14:15 284CB: The Ecological Impacts of Climate Change in Hot Regions: Can Nile Tilapia Adapt to Global Warming? *David L. Thomson*, Biology Department, UAE University, UAE

14:30 305CB: Risk Assessment of Green Turtle Habitat through Geospatial Indicators A Case Study of Hawks Bay Beach, Karachi-Pakistan.

265SD: Municipal Solid Waste Composition and Greenhouse Gas Emission Potential from a Landfill – A Case Study from Muscat, Oman. *Hameed Sulaiman*, Sultan Qaboos University, OMAN

Q&A Discussion

SESSION 6A:

Venue: Room A
Chair: TBA

358SC: Impact of building setback on environmental sustainability: A study of leftover space of residential building in Khulna. *Md Raihan Khan*, Khulna University, BANGLADESH

241SD: The Expanded Bed Biofilm Reactor: Innovative Technology for Advanced Treatment of Used Water. *Michael J. Dempsey*, Manchester Metropolitan University, UK

391BP: Behaviour of Nuclear Power Plant Wall under Different Aircrafts. *Pabitra Maiti*, Indian Institute of Technology (BHU) Varanasi, INDIA



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Farheen Khanum, ECOBUILD Sustainability and Renewable Energy Consultants, UAE

14:45 266CB: Protecting the Natural Ecosystems for Building Climate Resilient Cities as Carbon Sink. *Abdullah Al-Nadabi*, Sultan Qaboos University, OMAN

15:00 120SD: Comparing Social Costs of Conventional Rice Production System and System of Rice Intensification: A Case Study of Indonesia. *Mohamad Maulana*, ICASEPS, INDONESIA

15:15 298SC: Development of Ornamental Plants Modules Based on Outdoor Hydroponics. *Moustafa Fadel*, UAE University, UAE

15:30 – Q&A Discussion

249BP: Synthesis of Highly Efficient Sorbents Based on Copper and Cadmium Sulfides for Water Purification. *Sergiy N. Lavrynenko*, National Technical University, "Kh.P.I.", UKRAINE

382SC: A Proposal for A Sustainable Local Neighborhood/ Case Study of Mezyad. *Meera Khalfan*, UAE University, UAE

270SC: Smart Mobility through the Integration of Land use and Transportation – A case study of Chennai Metro Rail station. *Sheeba Chander*, Hindustan Institute of Technology and Science, INDIA

- Q&A Discussion

SESSION 6B:

Venue: Room B

Chair: TBA

SESSION 6C: OREC TECHNICAL WORKSHOP

Venue: Room C

Chair: TBA



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- 14:00 118CB: Carbon Sequestration Implementation through Sustainable Agricultural Land Management (SALM) Methodology in Nigeria. *Idowu Oluropo Ologeh*, Dangote Projects, NIGERIA
- 14:15 119BP: Study on Soil Erosion And Nutrient Loss of Nitrogen and Phosphorus in Sugarcane Cropping Systems. *Hongwei Tan*, Guangxi Academy of Agricultural Sciences, CHINA
- 14:30 203CB: The Forest Heritage and Sustainable Development of Morocco (Cedar-Barbary Macaques): Is There a Link Between the Degradation of the Cedar Forest, the Barbary Macaques and Climate Change? *Faical Boutlib*, Université Sidi Mohamed Ben Abdellah, MOROCCO
- 14:45 273BP: Green Fodder Production and Effect of Different Saline Water Levels Under Hydroponic Barley. *Basel Awni Natsheh*, Palestine Technical University, PALESTINE.
- 15:00 275SC: Sustainable Development in the UAE Through Cement-Free Geopolymer Concrete. *Hilal El-Hassan*, UAE Univeristy, UAE
- 15:15 Q&A Discussion
- 392AM: The Role Of Climate Change and Agricultural Practices on Deterioration of Groundwater in Wadi As-Sirhan Basin, Al Jouf, Kingdom Of Saudi Arabia. *Ibrahim Bin Muhammad Aboabat*, Watania Agriculture, SAUDI ARABIA
- 321AM: Application of Smart Cities Techniques in Integrated Planning and Sustainable Urban Energy Systems in Ijapo Housing Estate, Akure Nigeria. *Kolawole Atinuke J.*, Toyinks Planning Associates, NIGERIA
- 133AM: Predictors of recycling behavior: A survey-based study in the city of Sharjah, UAE. *Lutfi Kawaf*, University of Sharjah, UAE
- 159CB: Human Demand on Nature: Where Do We Stand vis-à-vis World Scenario? *Tareefa Alsumaiti*, UAE University, UAE
- 367SC: Receding wetlands in peri-urban area and urban vulnerability to climate change: A case study of Lucknow City, India. *Kashif Imdad*, PPN PG College, INDIA



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Closing Ceremony

15:45 Wrap-up, Recommendations and Closing Ceremony

16:15 City Sightseeing Tour (Ajman and Dubai)

10:30-11:00 * POSTER PRESENTATIONS

Venue: TBA

- 131BP: Drone Ecology Research Network. *David Gallacher*, Zayed University, UAE
- 140SC: Groundwater Potential Evaluation Based on Integrated GIS and Remote Sensing Techniques, Bilate River Catchment: South Rift Valley of Ethiopia. *Tesfaye Tessema Gintamo*, University of the Western Cape, SOUTH AFRICA
- 149SD: Role of Information and Communication Technologies (ICTs) in Flood Risk Mitigation. *Javed Ali*, UNESCO-IHE, NETHERLANDS
- 346SC: Assessment of Climate Changes Impacts on Groundwater Recharge in Eastern UAE. *Mohamed Mohamed*, UAE University, UAE
- 377SC: Optimization of Double Skin Facades for High Rise Buildings in Hot Arid Climates. *Ann Johny*, Heriot Watt University, UAE
- 378SC: Air quality management through sustainable urban transport measures: A step towards climate change mitigation. *Pawan Kumar Singh*, National PG College, INDIA