



جامعة
المملكة
KINGDOM
UNIVERSITY



Fourth Kingdom University - WREN Seminar

Organize:

**Renewable Energy & Climate Change
Energy Efficiency, Conservation,
Cooling and Green Buildings' Design**

9 - 11 February, 2020

Crowne Plaza, Manama
Kingdom of Bahrain

Supported by



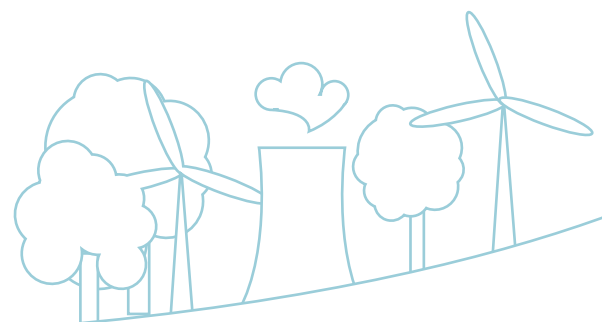
تمكين
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Sustainable Energy Unit | وحدة الطاقة المستدامة
Kingdom of Bahrain | مملكة البحرين

Sunday 9 February

- 09:00 - 09:30 **Opening Ceremony**
- 09:30 - 10:00 **Coffee Break**
- 10:00 - 11:00 **Renewable Energy & Climate Change**
Prof Ali Sayigh - Chairman of WREC, Brighton, UK
- 11:00 - 11:30 **Moving Towards Green City in Ajman - UAE**
Prof Riadh Al-Dabbagh - Ajman Univ., Ajman, UAE
- 11:30 - 12:00 **Photovoltaic Applications in the EU**
Dr Marta Szabo, Szent Istvan Universiyu, Godollo, Hungary
- 12:00 - 12:30 **Examples of European Green Buildings**
Dr Antonella Trombadore, Florence University, Italy
- 12:30 - 13:00 **Prayers Break**
- 13:00 - 14:00 **The importance of Solar Cooling**
Prof Robert Critoph, School of Engineering, Warwick University, UK
- 14:00 - 15:00 **Lunch Break**



Monday 10 February

- 09:00 - 10:00 **Waste to Energy & Biomass**
Prof Anastasia Zabaniotou, Aristotle University of Thessaloniki,
Thessaloniki, Greece
- 10:00 - 11:00 **Green Buildings in Portugal - Major Energy Saving**
Prof Manuel Correia Guedes, Instituto Superior Técnico, Brisbane,
Portugal
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 12:00 **The Health Implication of Climate Change & Global Warming**
Dr Jazla Fadda, Visionary Mindset, Dubai, UAE
- 12:00 - 12:30 **The Potential of Wind-Powered Desalination:
Achievement and Progress - Case Study for Bahrain**
Prof Salam Darwish, Manchester, UK
- 12:30 - 13:00 **PRAYERS & Break**
- 13:00 - 13:30 **Accomplishment of low energy buildings in high latitude
countries through passive Solar system**
Dorota Chwieduk Technical University of Warsaw,
Institute of Heat Engineering, Warsaw, Poland
- 13:30 - 14:00 **Local Speaker**
- 14:00 - 14:20 **Certificate presentation**
- 14:20 - 15:30 **Lunch Break**

Tuesday 11 February

- 08:30 - 13:00 **Three visits to Renewable Energy Facilities**
- 13:00 - 14:00 **Lunch Break**



Speakers



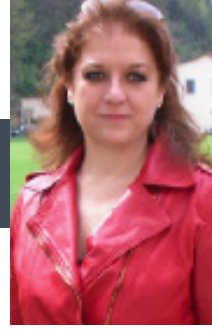
Prof. Ali Sayigh

BSc, AWP, DIC, PhD, FIE, FIEE, CEng, M BWEC, FRSA

He started working in solar energy in September 1969. In 1972, he established "The Journal of Engineering Sciences" in Riyadh, Saudi Arabia and in 1984 he established International Journal for Solar and Wind Technology, as an Editor-in-Chief. This has changed its name in 1990 to Journal of Renewable Energy. In March 2014, he left WREN Journal as editor-in-chief but remain as founding editor. He is editor of several international journal published in Morocco, Iran, Bangladesh, Nigeria and India. He established WREN and the World Renewable Energy Congress in 1990. Member of various societies related to climate change and renewable energy. He established with others by annual Forum in 2011 "Mediterranean Green Buildings and Renewable Energy Forum".

He was consultants to many national and international organizations, among them, the British Council, ISESCO, UNESCO, UNDP, ESCWA, & UNIDO. He run conferences in 40 different countries, published more than 600 papers and associated in 40 books. He supervised more than 80 M Sc. and 35 Ph. D students. He established Renewable Energy Magazine, RE and the year, since 2000. He established as Editor-in-chief, well-refereed Journal of Renewable Energy and Environmental Sustainability, in 2016 as open access.

He is the Editor-in-chief of Comprehensive Renewable Energy coordinating 154 top scientists, engineers and researchers' contribution in eight volumes published in 2012 by Elsevier which won 2013 PROSE award in USA



Dr. Antonella Trombadore

Contract Professor at the University of Florence, Senior researcher, PhD, MSc, Architect from 1999 she works at the Department of Architecture and ABITA Interuniversity research center.

PhD in Architectural Technology in the University of Florence, MSC in Energy Management, she works as senior expert in the field of Project Management, Integrated Projects, Sustainable Urban Design, Energy Conscious Design, Low energy buildings, Sustainable architecture and bioclimatic design, Communication and dissemination strategies.

Team leader of several European Research Projects in the field of architectural integration of innovative solutions for energy retrofitting action, nearly zero buildings as well as integrated smart process for Abitare Mediterraneo, multi-issues platform as interactive Network for technical regulations management, technologies data base and best practice dissemination activity. Collaborator for the management of European Master Course "Sustainable design and technologies for built environment" and Post-graduate courses in Bioclimatic Architecture and Energy Saving in Buildings at the University of Florence.

Speakers



Prof Dr Dorota Chwieduk

Dorota Chwieduk Prof., DSc. PhD., M.Sc, Mech..Eng.

Deputy Director of the Heat Engineering Institute at Warsaw University of Technology. Research on Energy, Buildings and environment with focus on renewable energy, especially on solar energy, heat pumps and energy storage. Fellow Member of the Thermodynamics Section of Thermodynamics and Combustion Committee, Fellow Member of the Physics of Building Construction Section of the Civil Engineering Committee of the Polish Academy of Sciences, Fellow Member of the Energy Problems Committee of the Polish Academy of Sciences.. President of the International Solar Energy Society – Europe 2009 – 2011 and the Past President 2012 – 2013. President of the Polish Solar Energy Society, since 1993. Editor in Chief of the “Polish Solar Energy” magazine. Since 1994 member of the World Renewable Energy Network - WREN. Nominated member of the AGE - Advisory Group on Energy for the FP7 of the European Commission 2007 - 2013. Member of the International Management Committee of the Smart Cities EERA JP. Awarded by the annual title of the year 2006 as „Promoter of Renewable Energy” by the “Clean Energy” magazine. Awarded by the Ministry of Buildings in 2006 for a chapter Low energy buildings. Renewable energy. in: Physics of Buildings, publisher Arkady. Awarded in 2008 by the World Renewable Energy Network – WREN as Pioneer of Renewable Energy. Awarded in 2009 by The Ministry of Infrastructure for the Best DSc Dissertation (habilitation) in Buildings and Construction discipline in 2008 in Poland. Awarded in 2010 by the Division of Production Engineering of the Warsaw University of Live Science for achievements and support for the Division. Awarded in 2012 by the Rector of the Warsaw University of Technology for the Best Scientific Achievements in 2011. Author of 220 national and international papers and 9 books and different reports.



Speakers



Dr. Jazla Fadda

Dr. Fadda is a prominent public health specialist with many credentials at national, regional and international levels. In addition to her education in Dentistry, she got her master's degree in public health, MPH, from University of Liverpool, UK. Besides her working in management positions for different public health and health promotion programs at Ministry of Health, Dr. Jazla had also a remarkable contribution in academic profession, she has wide experience in teaching as a faculty member for graduate students in Public Health, Health System Management, Hospital Management and Health Economics at the Center for Strategic Health Studies affiliated with UK Liverpool School of Tropical Medicines in her origin country.

Dr. Fadda had worked with WHO as a consultant for developing a 'Global Program for Urban Health Equity' with WKC (WHO- Kobe - Japan International Research & Development Center). She also worked with the Global Health Workforce Alliance for mapping priority countries facing critical shortages of human resources for health. Moreover, Dr. Fadda is also involved in a global Network of World Renewable Energy "WREN" located in UK, addressing climate change health impacts, besides quality of healthcare & green healthcare system topics, through her publications and participating as a member of WREN in international conferences, forums and seminars.

Dr. Jazla continued her passion in academic discipline by joining American University in the Emirates/ Dubai International Academic City- the College of Business Administration as the head of "HHM" Hospital & Healthcare Management Specialization. Moreover, she was the main teaching faculty member of most HHM specialization courses such as; Healthcare Management, Ethics and Fraud in Healthcare, Clinic Services Management, and Hospital Strategic Management. Dr. Fadda has also **joined Westford University College as an adjunct faculty teaching Healthcare Operation Management** at MBA in Healthcare Management Program, and **Post Graduate Diploma in Healthcare Management & Leadership Program**.

Having an innovative approach, along with presenting and communication skills, Dr. Fadda is proactively engaged in Media presenting a variety of healthcare topics on different TV channels such as; MBC, Sky News Arabia, Dubai TV and Sharjah TV, having a passion of developing health messages to the public, to help them choose the best healthy life style choices.

At the moment, Dr. Fadda is the **President & CEO** of one prominent Training Institute in Dubai, **"Visionary Mindset Professional & Management Development Training"**, in which she is planning to continue her passion in advocating knowledge using a visionary approach to develop knowledge and practical skills of healthcare professionals besides other industries' professionals.

Speakers



Prof. Riadh H. Al-Dabbagh

Prof. Al-Dabbagh obtained his first degree B Sc. in geology from Mosul University, Iraq in 1968, then his Diploma, MSc, PhD from University College, London in 1975. He has a very colourful courier prior to his present post in the UAE.

President of 4 universities for 21 years, Faculty member for about 40 years in 7 universities Published Approximately 79 scientific papers in the field of water resources and hydrology, Environment, Pollution, Water management, Water Engineering 25 short papers in education and scientific contribution, Five textbooks in the field of hydrology, water management and engineering geology, Teaching graduate and undergraduate courses in water resource management, hydrology, environmental hydrology, basic ecology, environment water& energy and general geology, hydrochemistry, ground water resources, water quality, pollution, and environment,

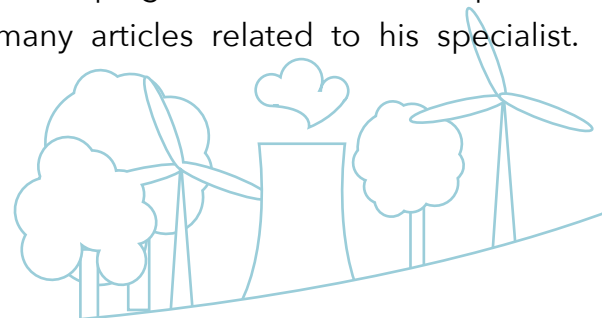
Attended 65 international conferences and 42 national and regional conferences, Received approximately 44 awards from regional, Arabic and international universities and organizations, Spent a total of 6 years as a visiting professor in 14 different universities in 10 different European, North and South American countries.

In 2003- up to the present, He is a professor at Ajman University and advisor to the President of the University, UAE.



Dr. Salam Darwish

Dr. Salam Darwish is the Director of Phoenix Renewable Energy Centre and Head of Engineering Department at Manchester Trinity College (UK). He holds an MSc Membership in Aeronautical Engineering CIT (UK) and a PhD in Wind Turbines Aerodynamics from the University of Reading (UK). He is also a visiting professor and lecturer at Loughborough University, Warrington Collegiate, and other UK academic institutions. He is international program consultant at University of Glyndwr and Wolverhampton University and had supervised and graduated more than 11 PhD students and 33 MSc students under his supervision at Universities in UK and Middle East. His main Interest is the design, operation and management of Renewable Energy technologies and is leading research to locate wind and solar technologies for sustainable buildings for developing countries. He had published many articles related to his specialist.



Speakers

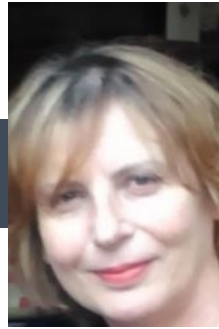


Dr Marta Szabo

Dr. Marta Szabo graduated in Hungary as agricultural and mechanical engineer specialized in Building Service engineering. She received a PhD in engineering in 1998 in the field of energy and renewable energy utilization in greenhouses. She started as lecturer in 1998, then in 2004 became Assistant Professor and Researcher at the Szent Istvan University Hungary. In 2008 became an Associate Professor. Her field is the utilization of renewable energy, and energy management in buildings. In 2009 she acted as a Faculty Director for the International Relations.

In 2006-2007 Dr Szabo was seconded as a national expert to the Institute of Environment and Sustainability of the Joint Research Center of the European Commission, and in 2010-2011 has been senior researcher in the Institute of Energy of the Joint Research Center of the European Commission working on the technical assessment of Renewable Energy in the EU.

She has authored and coauthored more than 120 papers and research reports, published in journals and international conferences. She was member of several organizing committees for many international conferences and workshops. Dr. Szabo is member of the WREN and has been awarded a has been chosen as the best young scientist in renewable energy Congress, Florence, Italy in 2006.



Prof Anastasia Zabaniotou

Anastasia Zabaniotou is Professor at the Chemical Engineering Department of the Faculty of Engineering of Aristotle University of Thessaloniki, Greece. Dr Zabaniotou holds a Ph.D. and a DEA from Ecole Centrale de Paris, France. She has been working in the European Commission, in Research and Innovation policy as an officer and expert. She is member of the Board of the Centre for Sustainable Development of the Aristotle University of the International Relations Committee of the Engineering School of Aristotle University. She is coordinator of T.I.M.E (Network for a double degree, coordinated by Ecole Centrale de Paris) and board member of RMEI (Network of Mediterranean Engineering Schools on Sustainable Development). She is founder member of the Aristotle's University Centre for Space, Environment Technology and Gender issues. She is interested in multidisciplinary and interdisciplinary research and education. She is also involved in activities concerning science and society, international Engineering Education, and Mobility. Prof Zabaniotou is active in Bio- Economy and Circular Economy concepts, with focus on thermo-chemical conversion of biomass, residues and waste to energy, biofuels, carbon materials production including biochar, in the context of cascade waste-bio- refinery and closing resources loops. She has been involved and coordinated many national and international applied research and innovation projects and her group awarded for the innovation in research several times. She is author and co-author of 100 papers in international journals and 200 conference presentations. She has been invited in several conferences as keynote speaker, organized several conferences, workshops and events and awarded for innovation in research.

Speakers



Prof. R.E. CRITOPH

Bob Critoph is a professor in the Division of Civil and Mechanical Engineering of the University of Warwick. His first degree was in Aeronautical Engineering, from Southampton University but he went on to do a PhD in energy analysis also at Southampton. As a result of this work he was awarded the Institute of Energy Bone-Wheeler Medal.

He then worked in the Open University Energy Research Group as a Research Fellow, responsible for the design, construction and testing of a gas engine driven heat pump. From 1979 he has been at Warwick lecturing in Thermodynamics, Heat Transfer and Solar Energy.

His research is in adsorption refrigeration and heat pump systems, with uses ranging from solar refrigeration and air conditioning to gas-fired heat pumps. At present, his research team consists of two post-doctoral RA's and two PhD students and he has five active research projects worth £1.2.



Prof Dr Manuel Correia Guedes

Dept of Civil Engineering & Architecture Instituto Superior Tecnico, Lisbon, Portugal

Professor, Director of the Architectural Research Centre (ICIST-N8), Portugal

He is Director of the Architectural Research Centre of the Instituto Superior Tecnico (ICIST - Group 8). He is Responsible for several Disciplines of the courses of Architecture, Civil Engineering and Territorial Engineering. He is supervising several Ph D and M Sc. students.

Participation in various research projects: Chief Coordinator of a COOPENER E.U. project (SUREAFRICA), National Coordinator of an ASIA-LINK project, Dr Guedes, participated in various international and national conferences, seminars and workshops. His Ph. D was on Environmental design in Southern European Office Buildings covering sustainability, passive design, energy efficiency, and thermal comfort. Both his Ph D and M Phil were done at Cambridge University, Martin Centre. The M Phil thesis was sponsored by the E.U. "Praxis" scholarship on Environmental Design, "Aspects of Environmental design of Office Buildings in Portugal".

Since 1985 he participated in various projects, namely the Portuguese Pavilion in Seville's EXPO 92, two residential buildings in Vila Real, the competition for the National Assembly building, and the building of the Agronomy Faculty (UTL). He worked as an architect in several Portuguese architectural companies. He published many articles and papers in the fields of bioclimatic architecture and the built environment.