



جامعة
المملكة
KINGDOM
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Sustainable Buildings & Renewables Seminar

- Crowne Plaza Hotel Al-Manama, Kingdom of Bahrain -

15 & 16 April, 2017

Organized by Kingdom University and the World Renewable Energy Network

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Saturday 15 April

09:00 – 9:30

Opening Ceremony

9:30 – 10:30

Renewable Energy and the Turning Point

Prof Ali Sayigh – Chairman of WREC & D G of WREN, UK

10:30 – 11:00

Coffee Break

- 10:30 – 11:30 **Green Buildings Design – Modern Approach – I**
Professor Antonella Trombadore – Abita, Florence University, Italy
- 11:30 – 12:30 **Water Desalination Systems – The Best Approach Approach – I**
Professor Nader Al-Bastaki – Vice Chancellor, Kingdom University, Bahrain
- 12:30 – 13:00 **Prayers Break & End of the Day**

Sunday 16 April

- 9:00 – 10:00 **Green Buildings Design – Modern Approach – II**
Dr Ruxandra Crutescu – "Spiru Haret" University, Bucharest, Romania
- 10:00 – 11:00 **why do we need Green Buildings in the GCC?**
Prof Riyadh Al-Dabbagh, Ajman University
- 11:00 – 11:30 **Coffee Break**
- 11:300 – 12:300 **Bahrain Photovoltaic & Feeding Tariff**
Dr Shaker Haji – University of Bahrain, Bahrain
- 12:30 – 13:00 **Prayers & Coffee Break**
- 13:00 – 14:00 **Sustainable Buildings around the world**
Prof Ali Sayigh: WREN, Brighton, UK
- 14:00 – 15:30 **Lunch and Distribution of the Certificates**

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SPEAKERS OF THE SEMINAR

Prof Ali Sayigh,



UK Citizen, Graduated from London University, & Imperial College, BSC.AWP, DIC, PhD,

C Eng. in 1966. He is Fellow of the Institute of Energy, and Fellow of the Institution of Engineering & Technology, Chartered Engineer, Chairman of Iraq Energy Institute.

Prof Sayigh taught in Iraq, Saudi Arabia, Kuwait, Reading University and University of Hertfordshire From 1966 – 2004. He was Head of Energy Department at Kuwait Institute for Scientific Research (KISR) and Expert in renewable energy at AOPEC, Kuwait from 1981-1986.

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

Topic: Renewable Energy & the Architects

Dr Arch. Ruxandra Crutescu



Ruxandra Crutescu is doctor architect associate professor at the Faculty of Architecture in “Spiru Haret” University, Bucharest, Romania (Europe). Since 2009, Ruxandra Crutescu holds a PhD in Architecture from “Ion Mincu” University of Architecture, Bucharest. Between 2008-2013, she led the Research-Development-Innovation Department at Passivhaus EcoArchitect, Bragadiru, whose founder she is. Her contribution to the scientific activity consists of more than 80 articles, published in scientific magazines or by the occasion of national /international scientific conferences and several books. The main subjects were the ecological architecture, the sustainable development in architectural matters, the use of renewable energies in buildings and urban sites, in order to reduce the greenhouse gas emissions and protect the nature. Her activity is oriented towards the design and construction of energetically efficient buildings, ecological and non-polluting, respecting the passive, zero energy and plus

energy building- standards. Member of Romanian Order of Architects, the Romanian Register of Urbanists and the Romanian Union of Architects, she is involved in the research activity of energy efficient buildings since 1997. Active participant at the life of the romanian and the international scientific community, she is since 2012, member in the Council of the World Renewable Energy Congress and WRE Network (based in Brighton – Great Britain) and co-chair of the World Renewable Energy Congress Bucharest in 2015. She is also member in steering committees of international congresses WSEAS and WREC. Amongst her design activity’s important results, as project manager, there are the first romanian passive house, build in 2004, at Burlusi (Arges County), certified by the Passivhaus Institute Dr. W. Feisst, Darmstadt, Germany and the first romanian passive office-building (2500sqm), build in 2007, in Bragadiru city (Ilfov County), which belongs now to the romanian Arcon -Amvic company. Dr. arch. Ruxandra Crutescu has a continuous and sustained activity, with an experience of more than 33 years in the architectural design and research in the field of buildings and ecological architecture. She is also an authorized energy auditor for buildings, authorized in EU thermographer for buildings, authorized designer for passive buildings, having planned and risen (together with her design team) more than 3.500 buildings (family houses, kindergartens, schools, city halls, office-buildings, etc). All the buildings that she designed are based on nearly zero energy /bioclimatic concepts of the actual architecture. One of the main achievements of her activity is implementing in Romania of a new building system for ecological and energetically efficient buildings: Marc Insulated Concrete Forms, made of Neopor, that are produced at Bragadiru city, Ilfov County, Romania. She organizes annual symposiums and seminars like “Energy Days”, “Green Spot”, „ECOARCHITECT” and “Active Green Architects” on similar topics. In 2015 she was between the organisers and co-chair of the World Renewable Energy Congress in Bucharest Romania. In 2016, she was one of the 5 organisers of the „Diversity in Sustainability” Symposium in Bucharest, Romania. In may 2013 she received the SUERD award – Social & Economic Innovator.

Topic: Vernacular architecture as inspiration for contemporary green buildings

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 career 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.

Topic: Why Do We Need Green Building in UAE

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 Abitaremediterraneo, 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.

Topic: Green Buildings Design – Modern Approach – I

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