Green Forum 2015 Invited Speakers

Among the invited speaker are:

Mr Bill Watts

He is BA MSc CEng FCIBSE, and Max Fordham Senior Partner.

Following a university education in biological science, Bill Watts has spent 26 years developing Max Fordham LLP’s reputation for designing elegant buildings with a thorough understanding of how they are put together, how the environment affects comfort, in particular, how energy can be used and minimised to make buildings comfortable. Bill has worked with leading designers on a range of projects including new and refurbished offices in mixed use developments in the West End, refurbished and new build social housing on large high rise estates, schools including the new City Academy in Bermondsey, community and elite training pools and dry sports venues, theatres and galleries. The innovative Beaufort Court zero emissions building for RES in Kings Langley was completed in 2003 and its carbon emissions have been monitored. This provided great lessons on the potential of renewable energy systems and how they work. Bill has been candidly sharing the findings at conferences on achieving zero carbon buildings. Bill has recently provided advice on sustainable issues in the PFI schools procurement process as an assessor for Belfast Schools and Library Board, and as a bidder for the Islington schools BSF. More recently he advised a developer seeking planning for a large mixed use development in Stockwell Green, setting out an energy strategy that the client was comfortable with for presentation to the Mayor’s office to ensure the renewable energy commitments were met.

Recently, Bill carried out wider studies of how the UK could be self-sufficient for its energy needs from local renewable energy resources and tied this into a study of the use of land to produce food and energy and the use of waste as a resource. This has been presented at the 2006 World Renewable Energy Conference (WREC) in Florence. This informed his thinking about how we should be moving the design of buildings and transport to accommodate this strategy. He is currently working with commercial growers on insulated greenhouses to make vegetable food production in the UK possible without additional heating. He has worked with the Carbon Trust in Northern Ireland investigating methods of utilising waste to produce energy and other resources.

His presentation is on: **Food Water Energy Nexus**

Dr Shadia Ikhmayies
Shadia Ikhmayies had received the BSc from the physics department in the University of Jordan in 1983, the MSc in molecular physics from the same university in 1987 and the PhD in producing CdS/CdTe thin film solar cells from the same university in 2002. She worked in the Applied Science University in Jordan and now she works in Al Isra University in Jordan as an associate professor. Her research is focused on producing and characterizing semiconductor thin films, thin film bilayers and thin film CdS/CdTe solar cells. Besides, she works in characterizing quartz in Jordan for the extraction of silicon for solar cells and characterizing different materials (NbN and doped Si) by computation. She published 32 research papers in international scientific journals, three chapters in books and 49 research papers in conference proceedings.

Shadia is a member of the Jordanian Renewable Energy Society (JRES), the minerals, metals and materials society (TMS) and the World Renewable Energy Network (WREN), where she became a member of the steering committee in 2014. She was an associate editor in the journal of "Physics Express" for "Simplex Academic Publishers". She is an associate editor in the journal "Peak Journal of Physical and Environmental Science Research (PJPESR) for "Peak Journals". She is a member of the editorial board of the "International Journal of Materials and Chemistry" for "Scientific & Academic Publishing", the editor in chief of a book: "Advances in the II-VI Compounds Suitable for Solar Cell Applications" for the Research Signpost/Transworld Research Network. She was the technical advisor/subject editor for JOM as a representative of the Materials Characterization Committee for the year 2014. Shadia is a reviewer in 21 international journals and she is a member of the characterization committee of TMS. She was an organizer and session chair in a lot of international conferences.

Her presentation is: **Transparent Conducting Oxides for Solar Cell Applications**

**Hamdy Hassan El-Ghetany**

He is a consultanct engineer and head of solar energy department at the National Research Centre, Giza, Egypt. His key qualifications are: Dr. Hamdy has an extensive experience in the field of mechanical engineering for 28 years either academically or professionally. His fields of interests cover the following: Renewable Energy (Solar energy applications) and Mechanical Engineering (Fluid Mechanics, Heat Transfer, Thermodynamics, Green House Effect, Global warming, and Heating, Ventilation and Air Conditioning Systems).

- Dr. Hamdy is certified as Solar Energy and Renewable Energy Consultant Engineer.
- Professionally, he is an electromechanical designer and reviewer for the HVAC and solar energy systems of several projects.
- Academically, he is recognized both internationally and nationally in the area of solar energy applications. He is the author of 16 scientific research articles published in leading international journals and 8 scientific research articles published in international and national conferences. He nominated as the solar energy coordinator in the Japan Egypt Science and Technology Year Program 08, He nominated also as Country Representative in an international workshop held in Nagoya, Japan, entitled: Technology for greenhouse Gases emission Mitigation.
- Egyptian Partner in an international research project entitled "Mediterranean activities for research and innovation in the energy sector” "MARE Project", funded from European Commission FP7 (INCO - 9/2013 - 2016) under grant agreement 609554.

His presentation is on: **Environmental Design Aspects for Green Building Technology**
Prof. Datu’ Dr Mohd. Yusof Hj. Othman

Prof. Mohd. Yusof Hj. Othman obtained BSc (Hons) in Physics from Universiti Kebangsaan Malaysia (1976), MSc in Solid State Physics from University of London (1977) and PhD in Heat Pump from Aston University, UK (1984). He is currently, a Professor at Department of Physics, Universiti Kebangsaan Malaysia (UKM). He was the Head, Department of Physics (1990-94); Deputy Dean, Faculty of Science and Technology (1994-02); Director, Research and Innovation Management Centre (2002-07); and the founding Director of Institute of Islam Hadhari since July 2007 of the university. Prof. Othman has been involved in renewable energy since early 80’s. His main contributions are in solar radiation, solar thermal and photovoltaic systems. His major research efforts include designing solar collectors for drying and hot water systems, photovoltaic water pumping, grid connected photovoltaic systems, and currently in photovoltaic-thermal collector (air & water based). He was the founding member of Solar Energy Research Group, UKM and founding Secretary General of Malaysian Institute of Energy (1992-2005). He has been elected as council member of the World Renewable Energy Network (WREN) since 1992, contact person for International Solar Energy Society (ISES) in Malaysia (1990-96). He was a visiting professor at the Department of Engineering, University of Reading, UK (1994), Associate Editor of the International Journal of Renewable Energy since 2005, Editorial Review Board of Scientific Journal International since July 2007. He received “WREN Pioneer” Award from World Renewable Energy Network/Congress in 2004, and outstanding corporation and support during the last two decade (2010) for his recognition and contribution in renewable energy activities. He is also Fellow of Academy of Science, Malaysia and the recipient of Top Research Scientist of Malaysia (2013) by the academy. He is conferred with Distinguished Fellow of University of Sultan Zainal Abidin and Islamic University of Malaysia (2013-15). He has been sitting on various panels and committee on renewable energy and education at ministry level in Malaysia. He has authored and
Dr Mohamed Said

Mohamed Saied was born in K. El-Sheikh, Egypt, on 1973. He graduated from the Electrical Engineering Dept., Faculty of Engineering, Alexandria, University, in 1995. By July 2000, he got his M.Sc. degree, and by July 2007 he received the Ph.D. degree from the same department. His PhD is in the direct torque control of induction machines using multilevel inverters. By April, 2010, Dr Mohamed finished the Postdoc training matrix for PhD holders from the Faculty and Leadership Development Centre, Alexandria University, Egypt. Dr Saied has been elevated to the IEEE Senior Member grade in 2013. He published 13 technical papers in refereed journals and conferences. He attended several national and international conferences and workshops. His research fields are covering: AC-drives, direct torque control of Induction and synchronous machines, HVDC transmission, power quality, active power filters, harmonic elimination, PWM modulation techniques, multi-level voltage source and DC/DC converters, wind and solar renewable energy and deadbeat control. As a lecturer since 2008, Dr Mohamed is responsible for designing and delivering several electrical power and automatic control courses in different Engineering faculties in Egypt. He is an advisor for several M.Sc. dissertations in different universities.

In addition to his academic background, Dr Mohamed is working for Abu-Qir Fertilizers & Chemical Industries Company, Alexandria Egypt. He is now the general manager of the Electrical Engineering Dept. He has 18 years of industrial experience, that he is a consultant for several factories science 1995. He is now finishing the study of the professional certificate of Business Administration in the Arab Academy for Science and Technology.

His presentations are on:

1- Onshore Wind farms; Horizontal Axis Wind Turbine (HAWT) versus Vertical Axis Wind Turbine (VAWT); A comparison.
2- Offshore wind technology foundations: Challenges and Opportunities.

Dr John Lowry

BSc (Hons) MSc PhD CEng FIMechE FIET FEI ACGI
John Lowry is a highly experienced and qualified engineer and writer. His career has encompassed both industry and academia. In addition he has acted as a consultant for many national and international organizations including the United Nations.

John Lowry is currently concerned about the long term future of energy and global warming. He is the author of “Life Without Oil and Other Fossil Fuels” and is also co-author of “Electric Vehicle Technology Explained” which has sole worldwide and currently in its second edition.

John Lowry holds an honours degree from Imperial College, a Master of Science degree from Surrey University and a PhD from Queen Mary College, London University. He is also a fellow of the Energy Institute, a fellow of the Institution of Mechanical engineers and a Fellow of the Institution of Engineering and Technology.

John Lowry is currently a fee lance consultant. He was a principal lecturer in the Engineering Department at Oxford Brookes University and an Executive Engineer at British Telecom. He was a Research Fellow for Professor M.W.Thring working in Solar and biomass power generation at Queen Mary College, London University. He holds strong view about depletion of fossil fuels and global warming.

His presentation is on: 

**Carbon Free Transport**

**Professor Najma LAAROUSSI**

Dr Najma Laaroussi has a master's degree in Thermal and Energy from the National Institute of Applied Sciences (INSA), Lyon, France and a Ph.D in Energy Systems and Thermal Processes obtained in 2008 from the University of Paris-Est, Marne-la-Vallée, France. She has been a Research and Development Engineer at Socotec Industries, France, in the period (2009-2011) and she is, currently a Researcher in Energy, Environment and Materials Laboratory, in Morocco since 2011. Her main research interests includes renewable energy building, thermal solar and photovoltaic systems. She is currently also a Professor of Renewable Energy at the High School of Technology in Salé, Morocco. She also coordinates and manages several co-operations with national and international organizations. Her International scientific production includes various publications in journals and conferences proceedings. She is a reviewer in several International Journals in the Energy building and Environment field. She supervises and co-supervises every Ph.D. and master's degree on thermal Solar Energy, photovoltaic systems connected to the grid and energy conservation in buildings. She is the general secretary and an active membership of the Renewable Energy University Network (REUNET), an association representing a new concept for the development of renewable energy and promoting its use in Morocco through Training, Research and Innovation.
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.

His presentation is on: Solving Water scarcity problems by using Renewable Energy Technology in Remote Areas

Dr Jazaer Dawody

Jazaer Dawody has a PhD degree in Materials Science from Chalmers University of Technology and a M.Sc. degree in Physical Chemistry from Gothenburg University. She is currently working at Volvo Technology Corporation in Gothenburg Sweden as project manager for both European and Swedish projects for the development of Fuel Cell-based Auxiliary Power Units s as well as energy efficient low emission exhaust gas after treatment systems for mobile applications. Dr. Dawody has also been working at Powercell Sweden as manager for the development of fuel converter systems and as senior researcher at Chalmers University of Technology in Gothenburg Sweden. She has a strong background in catalyst preparation, characterization, deactivation, performance optimization, reaction kinetics and modeling. She is a member of the scientific committee of CAPC (Catalysis and Automotive Pollution Control) and chair for the Hydrogen and Fuel Cells technical committee of WREC.

Her Presentation is on: How can Renewable Energy Implemented in Road Transport
Dr Sr Norhayati Mahyuddin

She is the Head of Department of Building Surveying, Faculty of Built Environment, University of Malaya, Malaysia.

Dr Mahyuddin obtained her PhD from University of Reading, UK in 2011. Her MSc and BSc from UiTM (Universiti Teknologi Mara (UiTM)) on (Integrated Construction Project Management).

Her Professional Affiliation and Memberships are:

- INTERNATIONAL SOCIETY OF INDOOR AIR QUALITY AND CLIMATE, Member, 2011-2014, (International)
- INSTITUTION OF SURVEYORS MALAYSIA, Member, 2007, (National)

Her Administrative Duties:

Research Assistant, UNIVERSITY OF READING, UK, 01/05/2007 until 15/12/2007

Pensyarah, PJ COLLEGE OF ART & DESIGN, 01/09/2000 until 30/06/2002

Design Architect, 2M DESIGN SDN. BHD., 01/06/1999 until 31/07/2000

Her main areas of Expertise are:

Air Pollution (INDOOR AIR QUALITY)
Computational Fluid Dynamic (CFD) Indoor Air Flow (CFD, AIR MOVEMENT & DISTRIBUTIONS)

She has several publications in papers and books.
Her presentation is on: Buildings Thermal Performance in Malaysia

Prof A. S. K. Darwish

Prof Darwish is 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 Aerodynamics from the University of Reading (UK). He is also a visiting professor and lecturer at Loughborough University, Warrington Collegiate, Wigan & Leigh College, Riverside College and other UK academic institutions 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 and operation of wind turbines and is leading researches to locate wind and solar technologies for developing countries. He had published many articles related to his specialist.

His presentation is on: Smart-Sustainable Green Buildings Aspects and Innovations

Dr Arch. Ruxandra Crutescu
Ruxandra Crutescu is a University Lecturer at the Faculty of Architecture, “Spiru Haret” University, Bucharest, and is the Head of the Research-Development-Innovation Department at Passive house Institute, Bragadiru, whose founder she is. Her contribution to the scientific activity consists of approx. 80 articles published in various scientific magazines or on the occasion of national and international scientific conferences and a number of books having as main subject the ecological architecture, the durable development in architectural matters, the use of renewable energies in buildings and architecture, in order to reduce the greenhouse gas emissions and protect nature.

Her activity is also oriented towards the designing and execution of energetically efficient buildings, ecological and non-polluting, respecting the passive, zero energy and plus energy buildings standards.

As member of Architects’ Order of Romania, the Register of Urbanist of Romania and the Passive house Institute of Darmstadt, Germany, she is involved in the research activity of passive buildings since 1997.

Active participant to the life of the Romanian and the international scientific community, she is Reviewer and Associate Editor for different Romanian and international publications.

Amongst her activity’s results, there is the first Romanian passive house, in 2004, at Burlusi (Arges County), and the first Romanian passive office-building (2500sqm), in 2007, at Bragadiru (Ilfov County), which belongs to Amvic Romania.

Her continuous and sustained activity, with an experience of 28 years in the research field of buildings and ecological architecture, her being an energetic audit specialist for buildings, authorized thermograph for buildings in EU, authorized designer for passive buildings, having planned and risen more than 3.500 buildings (family houses, kindergartens, schools, city halls, office-buildings, etc.), place her amongst the most active specialists in Romania and abroad.

The main achievement of the present activity is implementing in Romania of a new building system for ecological and passive buildings, energetically efficient: Marc Insulated Concrete Forms, made of Neopor, produced at Bragadiru, Ilfov County, Romania.

She obtained her Ph. D in 2009 in Architecture from “Ion Mincu” Architecture University, Bucharest.

Her presentation is on: **Aspects of Sustainability in the Romanian Vernacular Architecture**

**Professor Dania González Couret**
She is the Dean of Research, Faculty of Architecture, Havana, Cuba.

Professor Couret obtained her first degree in Architecture (ISPJAE, 1979); PhD. (ISPJAE, 1994); Post-Doctoral Studies in Lund University (Sweden, 1997 and 1999); Doctor in Science (ISPJAE, 2007). Now, she is titular professor, and Vice Dean for Research and Postgraduate Education in the Faculty of Architecture in Havana. Prof Couret is President of the Academic Committee for PhD Program in Architecture and the Master Course in Social Housing. Vice President of the National Tribunal for PhD in Architecture and Urbanism, member of the National Leading Board of Cuba solar and the International Leading Board of Arc. Peace. Professor Couret is member of several expert committees, Scientific Councils and Adviser Board in national and international magazines, reviewer in Renewable Energy Journal and INVI (Housing Institute, University of Chile), and Member of the Jury in several international design competitions.

Research and teaching issues: Sustainable Built Environment, specifically, Low Energy Architecture. She received several Awards in Cuba and abroad. Prof Couret published in various journals many articles. Edited books, and presented papers in national and international congresses. Tutor of Cuban and foreign Master and PhD. Professor and lecturer in Postgraduate Courses in Cuba and abroad.

Her presentation including others is on: **For a more Sustainable University of Computer Sciences**

Dania González Couret, Nataly González Milian, Elizabeth Rodríguez García, Mónica Llovet Salazar
Mr Rainer Hinrichs-Rahlwes

Rainer is an experienced Renewable Energy expert. Since May 2014, he has been serving as a Vice-President of EREF (European Renewable Energies Federation), the voice of independent producers of energy from renewable sources. From 2010 to 2014 he had been EREF’s President. Furthermore, he had been the President of the European Renewable Energy Council (EREC), the umbrella organization of Renewables in Europe, which had to be dissolved in March 2014.

Rainer also is a Board Member of the German Renewable Energy Federation (BEE), a mandate which he has been holding since 2006. He is BEE’s Spokesperson for European and international affairs, and he is the Chairman of BEE’s related working group.

He is a Member of the WREN-Council, the advisory structure of the World Renewable Energy Network. And he is closely cooperating with other international organizations in the area of Renewables, such as IRENA, die IEA, the Global100%Renewables-Campaign and others.

From November 1998 to December 2005, he was a Director General in the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), in charge of – among others – renewable energies and climate protection. As a representative of BMU he was one of the two chairmen of the International Steering Committee preparing the renewables2004-conference in Bonn. After the conference, he served as BMU’s representative and a founding co-chair and later a member of the Bureau of the Global Policy Network, now known as REN21.

His presentation is on: The European Climate and Energy Framework 2030 – Impact on Renewable Energy development

Dr Hussein A. Kazem

Has received his BSc, MSc degrees in electrical engineering from University of Technology (UOT), Baghdad - Iraq also, PhD from Newcastle University (NCL), UK. In 1996 he was appointed as Assistant Lecturer in UOT, Baghdad and from 1997 to 2002 he was a Lecturer with the Faculty of Engineering, Al Tahady University, Libya. In 2002 he became a Lecturer and then Assistant Professor with the Faculty of Engineering-Sohar University, Sultanate of Oman. Also, he is currently academic visitor at Newcastle University-UK and UKM-Malaysia. Hussein is involved in academics and research, since the last 18 years and is associated with professional organization and engineering societies such as IEEE, IEE, Elsevier, IAENG and WSEAS.
He organized and participates in many conferences, symposiums and workshops. He is a referee in IEEE, WSEAS, AMSE, Elsevier and IJCSEr journals. Also, he is a referee and organizer for many international conferences and editor of Bonfring International Journal. He has authored several publications on electrical engineering, including more than 100 papers published in scientific journals and conferences, some 40 invited talks, and four books in Power Electronics, Electrical Machines, Photovoltaic and Renewable Energy. Hussein had supervised and graduated more than 35 BSc, 8 MSc and 3 PhD students under his supervision in Al Tahady University, Sohar University, Newcastle University, University Kebangsaan Malaysia and University of Malaysia Perlis. His current research interest are in the area of Photovoltaic systems, Renewable Energy, Power Electronics, Power Quality, Harmonics, and Electrical Power System.

Hussein is chairman of the Renewable Energy & Sustainable Technology Research Group in Oman, they are working on three funded project (500,000 US$) by the Research Council of Oman. He is now leading project in title “Feasibility Study of Solar (Photovoltaic) Systems in Oman”.

His presentation is on: **Feasibility Study of 12 MW hybrid Wind/PV/diesel systems for Masirah Island-Oman**

Hussein A. Kazem¹, Ahmed H Al-Busaidi², and A Albadi³

¹Faculty of Engineering–Sohar University, PO Box 44, Sohar PCI 311, Oman
²Nizwa College of Technology, Oman
³College of Engineering, Sultan Qaboos University, Oman

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**Prof. Dr. Ali Hamzeh**

Prof. Dr. Ali Hamzeh obtained his PhD in Electrical Power Engineering from Technical University of Dresden, Germany. He is currently a full professor at the Department of Electrical Engineering, Faculty of Engineering, Al-Ahliyya Amman University, Jordan. Prior to that, Prof. Hamzeh worked from 1984 to 2012 as full professor at the Department of Electrical Power Engineering, Faculty of Mechanical and Electrical Engineering, Damascus University, Damascus, Syria. He has been a visiting Professor at the University of Strathclyde in 2000, and at Erlangen-Nuernberg University, Germany many times since 1994. His main research domains include electrical power systems and renewable energy systems. He published over 83 peer-reviewed article and conference papers. He authored/co-authored 17 books in the area of electric power systems, renewable energy, and computer programming.

He is member of IEEE, World Wind Energy Association (WWEA), Board of Arab Institute of Operation & Maintenance (Saudi Arabia), and Energy Committee of Arab Engineers Fedaration.
His presentation is on: **First Year Performance of a 276 kWp PV Plant in Al-Ahliyya Amman University**

**Prof Anwar El - Hadi**

His Ph. D from Norway in 1980, and Master from Turkey in 1971 while his B Sc. from Khartoum University in 1966 in (Engineering) and in 1961 in (Science). He has Diploma in teaching from Norway and several awards and fellowships among them: Accelerated Excellence Award, IGICA 2009; Honorary Award by H.E. Prince of the State of Kuwait for leading Arab Engineers, Kuwait, 2004; Award by the Arab Festival (sponsored by The Arab League of Nations) for Scientific Innovation, Cairo 2007; NORAD Fellow, Norwegian Agency for International Development, 1973/76; Fellow, Turkish Government, Ministry of Foreign Affairs, 1967/71 and Exchange Programme to Sweden, 1965 through I.A.E.S.T.E. (International Agency for the Exchange of Students for Technical Experience; Affiliated to UNESCO).

He is a member of twenty-seven international institutions and professional societies. El-Hadi is a professor of Air-conditioning and Refrigeration, University of Juba, Sudan (2000 to date). Teaching and supervising postgraduate students. He was Dean and Head of Division at the same University. He taught at Royal Norwegian University of Science and Technology 1980 – 1982. He also taught at Middle East Technical University, 1969 – 1973. Graduation projects in the fields of renewable energy and application in rural areas. He was president, Sudan Engineering Council 2000 – 2010. He was in charge of Regulatory professional body and curricula accreditation, Engineers Assessment and Registration.

Prof El-Hadi was Ambassador and served his country by being in many governmental committees, director of several private companies and supervised many engineering projects in Sudan. He is member of WREC Steering Committee representing Sudan and published many articles and reports.

His presentation is on: **The Normal; Minimising Energy Use, The Abnormal: Changing the Habits**

**Dr Joachim Pasel**
Dr. rer. nat. Joachim Pasel is head of group “Chemical Technology for Fuel Processing” at the Institute of Energy and Climate Research (IEK-3: Electrochemical Process Engineering) of Forschungszentrum Juelich GmbH. He studied chemistry at the Ruhr-University in Bochum, Germany, and did his PhD in chemistry at the University of Leipzig, Germany. The focus of Dr. Pasel’s scientific work is the development and experimental validation of reactors for autothermal reforming of middle distillates (diesel fuel and kerosene), water-gas-shift reaction and catalytic combustion for fuel cell systems. This work has been closely connected to research and development projects together with Airbus Deutschland GmbH. Additionally, his scientific work covers processes for desulfurization of middle distillates in the liquid phase. Dr. Pasel is author of several scientific papers about fuel processing and different processes for desulfurization. He is a recognized reviewer for scientific papers in these areas.

His presentation is on: **Autothermal Reforming of BTL Diesel Fuel for Fuel Cell Systems.**

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Dr Mohammad S Widyan

**Academic Qualifications**

3) B.Sc. in Electrical Engineering,(Power & Electrical Machines), Yarmouk University 2000. GPA 78.6 out of 100, Grade: Very Good.

**Work Experience**

1) T.A. in Electrical Engineering Department at Jordan University of Science and Technology (JUST), during the Master studies teaching electrical machine and circuit laboratories starting from June 2000 up to May 2002 .
2) MATLAB Course Lecturer at the IEEE Student Branch at JUST in 2001.
3) Lecturer in Electrical and Computer Engineering Department at The Hashemite University from September 2002 up to September 2003 teaching Electrical Circuits and Electrical Machines Courses.
4) Assistant Professor in Electrical Engineering Department at the Hashemite University from September 2006 till February 2012.
5) Associate Professor in Electrical Engineering Department at The Hashemite University from February 2012 till now.
6) Associate Professor in Electrical Engineering Department at Princess Sumaya University for Technology for the Academic Year 2013/2014 (Sabbatical Leave).

Awards:
1) The Second among the 27 Bachelor Students graduated in the same academic year.
2) The Second among the 10 Master Students graduated in the same academic year.
3) Several Thanking Letters from the President of The Hashemite University for teaching performance.
4) Scholarship from The Hashemite University for Ph.D. studies for three years to Berlin University of Technology.

His presentation is on: Transient Stability Analysis of Photovoltaic Generator Integrated to the Grid After Symmetrical Three-Phase Fault

Dr Gary Leeke

Dr Gary Leeke is a Reader in Low Carbon Technologies at the University of Birmingham. He received his PhD from the University of Birmingham and after working in the oil and gas industry he returned to Birmingham to undertake post-doctoral research, taking up his lectureship in March 2006. His research interests lie in the areas of sustainable carbon processing and resource efficiency. He has interests in high pressure engineering and thermo-chemical processing, specifically in reaction engineering, flow reactors, polymer and composite processing, rapid crystallisation, waste and the circular economy. He sits on the Sustainability Working Group of the UK’s Composites Leadership Forum.

His presentation is on: Assessment of algae biodiesel viability
Robert Dilger

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
German international Cooperation
c/o: GIZ-ESRA Office
Taimani, 10th street
Kabul, Afghanistan

GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit en Afghanistan Industry, Renewables & Environment GIZ

Current
1. GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH

Previous
1. Grand Gian Pineapple GGP, Indonesia,
2. GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit,
3. Regional Unit for Technical Assistance

Education
Universität Karsruhe

His presentation is on: Energy Efficiency and the Afghan Building Code – Institutional Progress and Reality on the ground

DR. SERGEY KARABANOV

He received his Ph.D. in electronics in 1984 in Ryazan State Radio Engineering University, Russia, since 1996 - Doctor of Science in micro- and nanoelectronics. Since 1986 he is dealing with photovoltaics. 1996 - 2012 – CEO, Ryazan Metal Ceramics Instrumentation Plant JSC
2006 – 2013 professor, head of the electronic engineering and technology department at the Ryazan State Radio Engineering University, Russia
In 2012-2013 he was the deputy minister for industry, innovation and information technologies of Ryazan region
2013 ~present, Senior Research Fellow, Ryazan State Radio Engineering University.

He is a member of international scientific societies and organizations: IEEE (The Institute of Electrical and Electronics Engineers, USA), MRS (Material Research Society, USA), ISES (International Solar Energy Society), WREN (World Renewable Energy Network, UK) and the member of the Steering Committee of the World Renewable Energy Congress.

He is author or co-author of eighty six patents and nearly 200 publications on different aspects of solar energy and electronic in books, technical journals, conference papers, studies and reports in 11 countries.
In 2007 Dr. Sergey Karabanov became the Laureate of Russian Federation Government Premium in the field of science and engineering. He has been the leader of the projects for PV module production, development of solar cells production technologies and new technologies for polysilicon production, MEMS switches production. His achievements include setting up production of solar cells and PV modules, electric double layer capacitors, reed switches, security and level sensors for automotive industry, relays, terminal switches.

His presentation is on: **New environmentally friendly chlorine-free solar-grade silicon production technology**

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**Dr DAVID S. RENNÉ**

Since 1991, Dr. Renné developed and managed programs on renewable energy resource assessment and analysis, and the integration of resource data into GIS at the National Renewable Energy Laboratory (NREL). He retired from NREL in 2012 and now holds an Emeritus position there. His consulting firm, Dave Renne Renewables, provides support to both the public and private sector in planning and developing domestic and international renewable energy programs.

Dr. Renne has been President of the International Solar Energy Society since 2010. He is also the Operating Agent of an International Energy Agency Solar Heating and Cooling Programme Task 46 titled “Solar Resource Assessment and Forecasting”. He continues to serve as an Associate Editor of the Solar Energy Journal in the field of solar resource assessment.

Dr. Renné other current professional activities include a Senior Consultant to Clean Power Research, a small U.S. Company that develops resource assessment and analytical software tools to support large-scale grid connected solar energy systems, and a Consultant to the World Bank’s Energy Sector Management Assistance Program’s (ESMAP)’s Resource Mapping Project.

His presentation is on: **Innovative Solar Resource Tools for a Growing Photovoltaic Energy Supply**

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**Prof Dr Patrik Rohdin**
Dr. Patrik Rohdin is an assistant professor of energy systems in the department of Management and Engineering at Linköping University, Sweden. Patrik is conducting research related to energy efficiency in the built environment and building simulation. In addition to this he is involved in courses in building energy systems, building simulation and modelling and industrial energy systems. Patrik also co-supervise several PhD-students and is active within the national interdisciplinary research program, Program energy systems.

His presentation is on: **Connecting energy efficiency, indoor environment and time-use in health care buildings**

**Mr Narayan Bhardwaj**

He has a Diploma in Automobile, and a BSc in Finance and MBA

In 2014 he was the winner of “Young Innovator Award in India”.

Since 2004 Mr Bhardwaj is engaged in providing R & D guide to many government and private institutions, individual and students. In 2010 he established his workshop cum laboratory in New Delhi for all those who have ideas and cannot develop them. He has several patents in the process of being realized.

His presentation is on: **Hydrokinetics - a promising emerging renewable energy technology for the generations to come**

**Prof Dr Reinhard Haas**

Energy Economics Group, Institute of Energy Systems and Electric Drives, Vienna University of Technology

Reinhard Haas is university professor of Energy Economics at Vienna University of Technology in Austria. He teaches Energy Economics, Regulation and Competition in Energy markets, and Energy Modelling.

His current research focus is on (i) evaluation and modelling of dissemination strategies for renewables; (ii) modelling paths towards sustainable energy systems; (iii) liberalisation vs regulation of energy markets; (iv) energy policy strategies.

He works in these fields since more than 20 years and has published various papers in reviewed international journals. Moreover, he has coordinated and coordinates projects for Austrian institutions as well as the European Commission and the International Energy Agency.
His presentation is on: **How electricity systems largely based on renewables will look like**

**Prof Dr Helmut Muller**

Prof. Dr.-Ing. Helmut F.O. Müller, Architect.
He is a German by birth, studied Architecture at University of Hanover and Stuttgart (Diploma), in (1971 – 72) DAAD scholarship at the London University College (School of Environmental Studies / Bartlett School), while in (1972 – 82) Professional activity in design and research. In 1979, he got his Doctor´s Degree at the University of Stuttgart (Dr.-Ing.). From 1982 – 93, he worked as Professor at the Polytec of Cologne, Department of Architecture. 1991 – 97, Foundation and director of the Institute of Light and Building Technology at the Polytec of Cologne (ILB). From 1993 – 2009 Univ.-Professor, Chair of Environmental Architecture, Department of Building, University of Dortmund. 1997 – 2005, he was a General Manager, GLB, Gesellschaft für Licht und Bautechnik mbH, Dortmund and since 2006 Deputy chairman of FitLicht e.V. Development Association Innovative Daylight Utilization. Since 2008, Director of Green Building R&D, Düsseldorf Partner of office consortium, 4greenarchitecture, Düsseldorf. He is Member of board of directors, Schuermann Spannel AG, Bochum

His presentation is on: **Spectral Variation of Energy Efficient Room Lighting**

**Prof Wim Zeiler**

Wim Zeiler studied Mechanical Engineering (Design and construction; Methodical Design) at the Technische Universität Twente. In 1983 he started working in Kropman Building Services contracting, in which he currently holds the position of specialist building services technology. In 2001 he became full professor Building Services at the faculty of Architecture, Building and Planning at the Eindhoven University of Technology. His current research is on Integral Design, Agent technology, Climatic Design and Renewable Energy in the Built Environment. He is member of the board of advice of ISSO (Dutch society for stimulation of research on building services in the Netherlands) and participated in many different committees and boards within the TVVL (the Dutch Society for Building Services in the Built Environment).

His present is on: **Life Cycle Performance Costing as argument for Green Buildings and renewable energy application**

**Dipl. Ing. Dr. techn. Amela Ajanovic**
Amela Ajanovic is a senior research scientist at Energy Economics Group at Vienna University of Technology. She holds a master degree in electrical engineering and a PhD in energy economics at Vienna University of Technology. She is responsible for research, project acquisition and scientific coordination in the area of energy economics with a focus on sustainable transport. Her main research interests are alternative fuels and alternative automotive technologies as well as transition to a sustainable energy system and long-term energy scenarios. She has also been involved in several national and international projects related to these topics. She has authored more than 50 papers and journal articles.

Her presentation is on: **Solutions for sustainable transport: renewable energy sources and electric vehicles**

**Prof Abubakar S Sambo**

Prof. A.S. Sambo, the Vice-Chair for Africa of the World Energy Council, is also the Director-General of the Energy Commission of Nigeria. He was born on 31st July, 1955 in Zaria, Nigeria. He received his B.Eng. degree in Mechanical Engineering, with first class honours, from Ahmadu Bello University, Zaria in 1979 and his D.Phil also in Mechanical Engineering, from the University of Sussex in the United Kingdom in 1983.

Prof. Sambo is registered with the Council for the Regulation of Engineering in Nigeria and is a Fellow of the following five associations: Nigerian Society of Engineers, Solar Energy Society of Nigeria, Nigerian Academy of Science, Nigerian Academy of Engineering and the Nigerian Association of Energy Economics.

Before joining the Energy Commission in 2005, Prof. Sambo served as the Vice-Chancellor of Abubakar Tafawa Balewa University of Technology from 1995-2004. Prof. Sambo has supervised 12 doctoral theses and has written more than 200 articles in scholarly journals on energy. He was appointed professor of energy studies by Usmanu Danfodiyo University, Sokoto in 1991.

In 2007 Prof Sambo was elected the Chairman of the Nigerian National Committee of the World Energy Council. He was also elected the Vice-Chair for Africa of WEC in 2007. In July 2011, Prof Sambo was named Special Adviser on Energy to the President of Nigeria.

His presentation is on: **Renewable Energy Technologies for Sustainable Development in Nigeria**

**Professor Helena Coch**
Her title of presentation is on: **Light and shadow. Mediterranean visual scenes**
With architect **Judit López Besora of the same institute** (email: juditlb@yahoo.es)

**DR. Herliyani Suharta**

Herliyani Suharta works for The Center of Energy Technology at the Agency for the Assessment and Application of Technology (B2TE-BPPT), Jakarta, Indonesia. 
As chief editor of the Institute Scientific Journal on Energy Technology (2005-2013). In 1998, she win the 1st and the 3rd winner of scientific writing competition held by BPPT.

Herliyani Suharta got Doctor of Philosophy from Hertfordshire University for her thesis on Solar Cooker Design for Indonesian Islands and an Approach to Its Dissemination. 
Previously, she got her Master of Philosophy from Sheffield University, Department of Metallurgy on topic Ternary Diffusion in Fe-Ni-Cr.


Principal Investigator at The Center for Field Research at Earthwatch Institute, Massachusetts, USA on topic ‘Indonesian Sun Cooking’ with activities Technology Transfer and Field Test of Solar Oven, Searching Its Real Environmental, Social & Economic Impact. Received many appreciations from various local Gov for these activities. 
Author for a proposal “Global Sun Cooking.

Project Developer of CDM Cook Stove Project Kupang 1, National Approval was signed on 27 December 2006. Previously, as an advisor to Indonesian Project Developer of CDM Solar Cooker Project, Aceh. She has many publications in journals, books and conferences.

In 2006, Herliyani Suharta was awarded a Research Professor.
Herliyani Suharta is one among “THE BEST HUNDRED INDONESIAN FEMALE RESEARCHERS”, published by The Ministry for Women Empowerment in cooperate with The Ministry for Cultural and Education and UNESCO on 22 December 2010. She is a member of World Renewable Energy Network (WREN), United Kingdom and several other organizations.

Her presentation is on: **Biomass Small Power Generation in the Archipelagic Islands of Indonesia which have the third largest forest in the World**

With others: Adiarso ²), Andika Prastawa ³) and Nurdi ⁴)

**Dr Kamil M Yousif**

Dr Yousif is an assistant Professor at University of Zakho, Iraq. He is an active member of the Physics Dept. His area of Research are: Renewable energy, Solid State physics, and Environmental Technology.

He is Head of Environmental Engineering. Area of research including SOLAR CONTROL WINDOW FILMS (SCWF)

- SCWF also screens out harmful ultraviolet rays (UV) and uncomfortable glare. - In summer, the film reflects the hot sun and lowers air conditioning cost while prevents inside heat from escaping through the windows in winter.

His presentation is on: **Some of Physical Properties of Pure and Fluorine Doped Tin Oxide Films suitable for energy-conserving windows**

Sayran A. Abdulgafar ¹), Kamil M. Yousif

**Dr Linda Hassaine**

Linda Hassaine is an Researcher in Renewable Energy “Centre de Développement des Energies Renouvelables, CDER, Algeria. She is a team manager and a project manager in the photovoltaic division of CDER. She received the doctorate in electrical engineering, Electronic and automatic from polytechnic of Carlos III University of Madrid, Spain, in 2010 and the Master’s degrees specialised in advanced electronic systems from polytechnic of Carlos III University of Madrid, Spain, in 2007. She got the Magister in solar electric from polytechnic of Algiers in 2002.

His research interests are, solar Energy, power electronics, photovoltaic systems, power converters for renewable energy systems, Inverters, namely, in the digital control of inverter, photovoltaic systems connected to the grid and in power quality. She is an Editor
of the review: “Revue des Energies Renouvelables” of CDER, Algeria. and reviewer in international journals. She supervise Masters and PhD’s in collaboration with several universities in Algeria. She is author of many papers, published in International Journals and the book in intituled “Control de Potencia para Inversores Fotovoltaicos” (Spain: Academic, 2012).

Her presentation is on: **Photovoltaic Solar Electricity Potential in Algeria**

**Dr Shaker Haji**

Dr. Shaker Haji is an Assistant Professor in the Department of Chemical Engineering at the University of Bahrain (UOB). He holds a B.Sc. degree from King Abdul Aziz University and M.Sc. and Ph.D. degrees from University of Connecticut. He teaches several chemical engineering courses at UOB including introductory chemical engineering courses, thermodynamics, chemical reaction engineering, process instrumentations, and fuel cell technology. Dr. Haji has authored/co-authored many peer-reviewed articles and contributed a chapter in a book on fuel and fuel processing for fuel cell applications. His recent publications and research interests are in the areas of water and energy including: water treatment, fossil fuel processing, and fuel cell technology. Dr. Haji lectured in several short courses on the topics of renewable energy, laboratory measurements, and fundamentals of chemical engineering. Recently, Dr. Haji completed one year industrial assignment with the Research and Development Center (R&DC) of Saudi Aramco in Dhahran. He is currently the Chairman of the Department of Chemical Engineering at the University.

His presentation is on: **Feed-in Tariff Scheme Development for PV Electricity for the Kingdom of Bahrain**
Dr. Ali Al-Alawi

(PhD: Solar Energy, MSc: Renewable Energy, B.Eng: Mech)
PO Box 941, Postal Code 132, Al-khoud
Sultanate of Oman

He has published many papers and reports in the field of Renewable Energy. He was a lecturer at Qaboose University in Muscat.

Presently he is enior Corporate Environmental Advisor Petroleum Development Oman LLC

His presentation is on: Renewable Energy Applications in Oil & Gas Industry

Dr Noura Youssef Mansouri

Noura earned her PhD in clean energy transition from Queen Mary, University of London, upon graduating she went on to pursue a postdoctoral research fellowship at MIT, she received an Ibn Khaldun fellowship and continues to work at the Center for Clean Water and Clean Energy, Mechanical Engineering, MIT, on a part-time basis. She joined AREVA, the French global leader in nuclear energy, in 2012 and continues to serve as the manager of strategy and marketing in Riyadh, Saudi Arabia. She received her Bachelor of Science degree in Management Information Systems from Dar Al Hekma University in Jeddah, Saudi Arabia and her Master of Business Administration degree in clean energy technology management from Queen Mary, University of London in the UK. Dr. Mansouri published her first book based on her PhD thesis in 2013 entitled “Greening the Black Gold: Saudi Arabia’s quest for clean energy”. She continues to research in clean energy, water desalination and sustainability topics. Noura has a diplomatic training certificate from The Fletcher School, Tufts University. She participated in several international and local events, including: AREVA's nuclear learning tour, presented before the Saudi and German foreign ministers on the topic of renewable energy collaboration at the Ministry of Foreign Affairs, and spoke at international events at MIT, Harvard University, and the Oxford Institute for Energy Studies. Noura is a co-founder of CellA+ a network for professional women in Saudi Arabia. Noura is married and a mother of two, Aya (7 YO) and AbdAllah (2 YO).

Her presentation is on: Greening the Black Gold: Saudi Arabia's quest for clean energy
Professor Anastasia Zabaniotou

Anastasia Zabaniotou is Prof. at the Chemical Engineering Dept. of the Faculty of Engineering of University of Thessaloniki, Greece and member of the Board of the centre for sustainable development of the Aristotle University. She holds a Ph.D. from Ecole Centrale de Paris and has been working for 4 years in the European Commission in DG research as an expert. She is still working with the EC on project evaluation and monitoring. For the 15 last years she is the leader of the Biomass and Waste Group of AUTH, which carries out fundamental and applied research in cooperation with several public and private organizations in the field of renewable energy production, with emphasis in biomass and waste valorisation by using innovative technologies of fast and slow pyrolysis, high temperature fixed and fluidized bed gasification and in topics of green chemistry and biorefinery. Group’s mission is to stimulate and promote know how and innovative solutions that meet the specific technological needs of the Greek and European bio-energy and waste management companies in the context of bio-economy, circular economy and industrial symbiosis. She has been involved in more than 30 national and international research projects. She is author and co-author of more than 85 papers in international journals and more than 100 conference presentations.

Her presentation is on: Development and Business opportunities in Mediterranean countries by valorising agricultural biomass in the context of Circular Economy and Industrial Symbiosis

Professor Hassan Nfaoui

Dr Hassan Nfaoui has a M.Sc in Solar Energy and a Ph.D in Wind Energy from the University of Mohammed-V (Morocco) in cooperation with the University of Reading (UK) sponsored by British Council. Since 1982, he has been at the Solar Energy & Environment Laboratory, developing and managing programs on renewable energy resource assessments and analysis. He is currently a Professor of Renewable Energy at University of Mohammed – V, Morocco. Besides his current main area of research in wind energy, he has several projects in solar and environmental area. Prof Nfaoui also, was appointed as an Academic expert in Solar and wind energy resource assessments by the government. He has published several scientific research papers in International peer reviewed Journals and supervised several M.Sc students with their research. He is currently reviewer in several International Journals in the Energy and Environment Sector, among them
is the Renewable Energy Journal, Solar Energy, wind Energy. Prof Nfaoui is also a member of several domestic and International Societies including WREN and The Moroccan Fulbright Alumni Association.

His presentation is on: **EVALUATION OF RENEWABLE ENERGY IN THE SOUTH OF MOROCCO AND PERSPECTIVES**

**Prof Federico Butera**

Federico M. Butera, formerly professor of Environmental Applied Physics at the Politecnico di Milano, is now consultant for energy research and education in developing countries of the Department “Architecture, Built Environment and Construction Engineering”, Politecnico di Milano. For 40 years has been actively concerned in the field of solar energy applications, low energy architecture and sustainable urban development. He has been involved in many research tasks of the IEA Implementing Agreement "Energy Conservation in Buildings and Community Systems" and "Solar Heating and Cooling", as well as in several EC research programs and in UN and World Bank development projects dealing with renewables and efficient use of energy at community scale. Besides his wide scientific production he is also author of books, articles and videos on energy issues for non-specialised audiences. In the last years he has been involved in advanced projects, many of which realised, regarding low and zero energy buildings and communities in Italy and abroad. He was awarded “Pioneer for Contributions in renewable Energy” by the World Renewable Energy Network in 1998 and, for his “outstanding service to the utilization and promotion of Renewable Energies and Sustainable Architecture”, by Eurosolar in 2004.

His presentation is on: **Guidelines for a sustainable Mediterranean urban development**

**Prof Ana-Maria Dabija**

- Architect, University professor, at the „ Ion Mincu University of Architecture and Urbanism, Bucharest Romania
- Vice-Rector for Scientific Research – Development – Innovation in UAUIM
- Author of University courses in the field of architectural technology
- team leader, collaborator or consultant in the elaboration of technical regulations
- author or team member in over 30 architecture design projects for new buildings or for the refurbishment of existing buildings
- author of 8 books, out of which 2 are at the second, revised and completed edition
- articles (over 100) of technical articles in magazines, cumulating over 200 pages
- PhD tutor
- President of the Romanian Technical Committee for Standardisation 318 “Doors and Windows” and member in other Standardisation Committees
- member of the Technical Committee “Building Physics and functional requirements”
- Technical expert and verifier, attested by the Ministry of Regional Development and Public Administration, in respect with the functional requirements Safety in use, Hygiene, health and environment, Energy economy and heat retention, Protection against noise
- Expert in the Horizon 2020 Research Framework Programme
- Member in the National Council of Scientific Research of Romania
- Member of the Romanian Union of Architects and of the Order of Architects
- Member of the International Solar Energy Society (ISES)
- Member of the International Council for Research and Innovation in Building and Construction (CIB), in the Roofing Working Group
- Member of the Association New and Renewable Energy Sources (SunE),
- Member of the Romanian Green Building Council (RoGBC)
- Member of the RehabiMed Association (international network)

Her presentation is on: **Building integrated renewable energy systems, or rediscovering forgotten principles**

**Dr.-Eng. Angelo Freni**

He graduated in Materials Engineering at the University of Messina in 1998. He holds a Ph.D. in Materials and Chemical engineering from the University of Messina. He has been at the Italian National Council of Research - Institute for Advanced Energy Technologies (CNR-ITAE), Messina, since 1998. He has worked on thermally-driven heat pumps, heat and hydrogen storage, has published more than 150 printed papers in the field, plus 3 patents. He has been carrying out and leading scientific activities in the framework of National and International programs, in co-operation with industries and research groups. Currently, he is Head of the research group on “Thermally Driven Heat Pumps” at CNR ITAE. He is the Italian representative member in the Executive Committee of the IEA - Heat Pump Program organization. He is member of the commission “E2 - Heat pumps, energy recovery” of the IIR – International Institute of Refrigeration.

His presentation is on: **SOLAR ADSORPTION COOLING SYSTEM FOR RESIDENTIAL BUILDINGS IN MEDITERRANEAN CLIMATE**

**Prof Despina Kyprianou Serghides**
She is Professor in Bioclimatic Architecture and the Urban Environment and the vice chair of the Department of Environmental Science and Technology, at the Cyprus University of Technology. She is scientific coordinator of European projects and she carries out research in bioclimatic Architecture, energy conscious building design for sustainable indoor and outdoor environments. The architectural design and concepts of her research have been presented and discussed at international congresses, forums and conferences and most of it has been published in international journals and proceedings. She studied Architecture at the Architectural Association School of Architecture (AA) London, UK. She continued postgraduate studies in Planning at the Planning Department of the AA. Also from the AA she obtained her Master and Doctorate in “Architecture – Energy & Environment”. She is the president of the International Solar Energy Society of Cyprus (ISES) and member of the Board of Directors of ISES-Europe of which she was the president. She has acted as a consultant for the Cyprus Government and Parliament and has been the national scientific representative of the National Scientific and Technical Co-operations with Greece and China. She gives lectures at National and international Universities and Institutes. She is on editorial boards and a reviewer in scientific journals and international conferences. She was honored with a lot of scholarships, awards and offices. She chairs and participates in organizing and scientific committees of International and National conferences, seminars and congresses of which she is invited plenary or and keynote speaker and presents papers.

Her presentation is on: **Energy Efficient Refurbishment for the Mediterranean houses – Investigating Energy Conservation in Multi-Storey Dwellings.**

**Prof Arch Fernando RECALDE**

He is Visiting Professor / Senior Research Scholar in the field of Bio ecologic Architecture and Environmental Innovation Technologies at ABITA Interuniversity Centre Headquarters in Florence. “Suma Cum Laude” in Architecture and Urban Planning University of Florence 1983; PhD University of Rome;“La Sapienza” 1990; Post PhD University of Rome and University of Grenoble, France 1994.

Holds advanced professional and academic qualifications and expertise in Urban Planning and Architecture, with over 20 years of experience in spatial /urban planning fostering sustainable development within Agenda 21 UN Participatory planning strategies together with RES (Renewable Energy Sources) & RUE (Rational Use of Energy) European Union Eco-efficient strategies. ABITA’s International Relationship Coordinator for South America since 2005, promoting renewable industrial bilateral collaboration between Europe & ACP countries triggering mitigation strategy for poverty reduction and rehabilitation of urban & rural environments.
Over the past 5 years fosters Industrial production of Added value bio-composites for ecological building material, urban & furniture design, naval carpentry, targeting RECYCLING and RENEWABLES technologies & advanced industrial processes for new solar and sustainable cities and real estate green living development. Founder of ABITArGreenBusiness ® EU Register Industrial Mark and promoter of Recycling Re-Evolution for Housing esign Team, since 2010 which promotes institutional, economic, social and cultural benefits in the fields of environmental protection, tackling climate change and biodiversity protection. “Waste To Energy & Recycling for Housing” supports poverty eradication and the achievement of the UN Millennium Development Goals; essential needs of the population, in particular public health social cohesion and employment.

Over 20 years professional experience in addressing, fostering and implementing Capacity Building issues and Demonstrative Pilot Projects expertise in architectural (residential housing and eco tourism) and urban design (human settlements in developing countries) together with Advanced Training activities in Developing & Transitional economies countries, focusing on the use of media and eco efficient technologies as potent advocacy tool both for a general audience, stakeholders and for specific national and development co-operation agents (bilateral and multilateral). The ability for planning, organizing and supervising development cooperation activities, is focus in the leadership of root communities through innovated multimedia pedagogy and strategic planning methods, experience developed within local government and bilateral and multilateral development cooperation agents, using the academic environment as trigger. Focus its strategy on media as communicator for policies and decision-making actions, fostering community participation.

His presentation is on: The RENAISSANCE Project - Renewable Energy & Sustainable Environment

Dr Michael Geyer Abengoa
Solar S.A., Sevilla (Spain)

Dr.-Ing. Michael Geyer obtained his Physics Diploma at the University of Tübingen in 1981 and holds a Ph. D. in Mechanical Engineering from the University of Essen. Since 1981 his professional activities have been dedicated to the development of renewable energy systems with special emphasis on solar power plant technologies, including positions as researcher and deputy director at the German Aerospace Agency (DLR) departments in Stuttgart and the Plataforma Solar de Almeria in Spain (1981-1989), Manager for System Engineering, Research and Development at Flachglas Solartechnik and ABB (1989-1993), Professor for Energy-, Power Plant Technology and Process Technology at the Polytechnic University of Regensburg (1993-1995) and Head of DLR’s Division at the Plataforma Solar de Almeria in Spain from 1995 until 2001. From 2001 until 2007 he was responsible for the solar thermal project development of the AndaSol projects of the Solar Millennium Group in Spain. Since April 2007 he is the Director for International Business Development of Abengoa Solar S.A.,
the solar division of the Spanish Abengoa group (www.abengoasolar.com). From September 2000 until March 2008 he served as the Executive Secretary of the IEA SolarPACES Implementing Agreement (www.solarpaces.org), which represents the international Solar Thermal Community of R&D institutions. Since November 2007 he has been elected Vice-President of the European Solar Thermal Electricity Association ESTELA (www.estelasolar.eu). He is author or co-author of more than 60 publications in the mentioned fields, including technical books, journals, conference papers, studies and reports.

His presentation is on: **Solar Thermal Electricity - A solar technology option to cover the electricity demand when the sun is not shining**

**Dr Kuruvilla Mathew**

Dr Kuruvilla Mathew finished his first degree in Physics and Mathematics. Then he continued his studies in Civil Engineering. After graduation worked as an engineering in the Public Health Engineering Department of Kerala State, India. During this time he completed his postgraduate course in Public Health Engineering from All India Institute of Hygiene and Public Health, Calcutta India. He was selected to do his postgraduate diploma in Environmental Engineering at International Institute of Environmental Engineering in Delft, Netherlands. He was appointed as regional engineering in charge of water pollution control in the state of Kerala, India. He pursued his PhD at Murdoch University in Western Australia. After completing his PhD he worked as an academic at Murdoch University. He was instrumental to start the courses, environmental technologies for sustainable development and water Conservation and water auditing. He has also taken initiative to establish an international environmental technology center at Murdoch University. He has organized many international events including WREN conferences at Murdoch in Australia in 1999, 2007 and 2013. He has been very active in promoting the message of renewable Energy and sustainable development all through his career.

His presentation is on: **Building Integrated and Distributed Energy and Water Infrastructure: Findings for Transit-Oriented Developments in Western Australia**

**Prof Dr Mohsen Aboulnaga**
Dr Aboulnaga is a Professor of Sustainable Built Environment at Cairo University and Government Strategy and Policy Advisor. He is member of The Ministry of Planning’s task-force responsible for developing Egypt’s Strategy on Sustainable Development and Green Economy 2030. He is an Associate Partner at Oil and Gas Skills (OGS), and an Associate Expert at the Regional Centre for Renewable Energy and Energy Efficiency. He is an expert on Sustainability, Sustainable Development and Sustainable Built Environment. Dr Aboulnaga obtained his PhD from University of Leeds, UK and Master and Bachelor Degrees from Cairo University. He has over 25 years of diverse experience (18 yrs were in the UAE) in government, senior management, consultancy and academic positions. His areas of competency include strategy planning, policy development, low-carbon society, green cities and sustainable building policies, as well as renewable energy and climate change. Dr Aboulnaga is former Strategy & Policy Advisor – Environment & Infrastructure at His Highness, the Prime Minister’s Office of the UAE (Feb 2009–April 10) responsible for implementing and monitoring the federal Government Strategy (cycle 2008-10). Prior to that, he held a position in the Capacity of Strategy & Policy Advisor at The Executive Council, Government of Dubai (May 2007–Jan 09) where he developed many strategic projects, namely Dubai Government policies, and detailed policy for Dubai Sustainable Urban Development Framework 2020 and Green Building Guidelines for UAE Ministry of Public Works, which was presented to the States of Arab League (LAS) in Jan 2009. He founded and established the Emirates Green Building Council in 2006 (no 8 worldwide in that year) and was elected the first chairman of the Council and Board of Directors. Prof. Aboulnaga holds an Honorary Fellow of the Institute of Green Professionals, USA. He is an Associate Partner of the European Sustainable Development Network, Austria; and a registered expert with UNEP, UNDP, ESCWA and UNECA. Dr Aboulnaga participated in the European Commission – JRC expert meeting in Italy to review the guidebook on Sustainable Energy Action Plan for the ENPI South Countries (Mediterranean cities) – Dec 2013; the UN Economic Commission for Africa (ECA) Ad-Hoc Expert Group meeting on integrated assessment tools and methodologies for Inclusive Green Economy in Africa from 25-26 Nov. 2014, and invited speaker at the Asian iNstitute for Environmental Research & enerGY symposium, 20-22 Nov. 2014, Incheon National University, South Korea; and participated in the ESDN Conference 2014 “A renewed policy framework for sustainable development - The international SD agenda and its impact on Europe”, Rome-Italy, 6-7 November 2014. He has been also an invited speaker to more than 120 int’l and regional conferences, seminars and workshops and training programs; and has more than 100 int’l publications and presentations. He taught at University of Leeds, UAE University, American University in Dubai and University of Dubai from 1986 till June 2013. He is currently teaching at Cairo University. Prof Aboulnaga has published, more 70 Intermetal publications, including journals and conferences, and 4 books’ chapters. He was invited keynote speaker to more than 100 international conferences, seminars, workshops and training as well as an external PhD examiner at University of Sheffield, UK.

His presentation is on: **Sustainability of educational buildings: Retrofitting measures to enhance energy performance; the case of AASTMT building**

Prof Emil Barbu Popescu
Prof. Dr. Architect in the « Ion Mincu» University of Architecture and Urbanism
Teaching and working as Architectural design professor in the field of Architecture and Urban Planning
- Professor Emeritus of the University since 2011
- top career in architecture and urban planning, as project author or collaborator
- Consulting in the field of loisir and housing structures
- Consulting in the field of accommodation structures and interior design
- participations at several international architectural competitions
- Lectures and conferences concerning problems of loisir, housing and architectural teaching in Romania and abroad
- invited professor in universities of architecture, juries, conferences in Europe, Asia, South America.
- international and national competitions/ exhibitions in architecture
Held top management positions, decision and control:
- Dean, Vice-Rector, Rector and now as President of the Ion Mincu University of Architecture and Urbanism;
- Vice-president – Order (Chamber) of the Romanian Architects
- Member of the Leading Council of the Romanian Urban Planners Register
- General Manager of the Center of Research, Design, Consulting and Expertise of UAUIIM
- Member of the Union of Romanian Architects
- Project leader of the Steering Committee of the European Association for Architectural Education (EAAE)
- Member of European Board Association of Architectural Education Council (EAAE) and ENHANSA
- Member of Romanian Academy of Technical Sciences
- National secretary – IAESTE, - Member of the educational group of ACE
- Expert coordinator - Group for Professional Qualifications Recognition by the European Commission.
- Expert – “Romualdo del Bianco” Foundation – Florence – Italy
For his professional activity, as architect or /and as professor he was awarded:
2006 - Medal of Bienale of Architecture –First prize award
2004 - Honorary Professor of « Ricardo Palma » University - Peru
2002 - Medal of Bienale of Architecture- First prize award
1996 - Arhitext Design Award
1987 - Second Prize at International Biennial of Architecture – Sofia - Bulgaria
1986 - first prize of the Romanian Union of Architects
1984 - first prize of the Romanian Union of Architects
1979 - first prize of the Romanian Union of Architects
2013 - prize of the Romanian Academy
2014 - medal of Romanian Union of Architects « Opera Omnia »

His presentation is on: **Examples from Romania – Novel Architecture**

Prof Bahram Moshfegh
He studied at the Linköping University, Sweden, where he received a Ph.D. degree in Energy Systems in 1992. He was appointed Professor of energy systems there in 2000. Professor Moshfegh is the Chairman of Division of Energy Systems at the Linköping University since 2000. He has been involved as expert for Swedish parliament and funding research council both nationally and internationally, member of the scientific committee for the Swedish Research School Energy Systems, member of the scientific committee and organization committee as well as invited speaker for many International Conferences. Referee for many international journals and international conferences in the field of energy and building. He is Swedish expert and Subtask leader in the Annex 51 - Energy Efficient Communities: Case Studies and Strategic Guidance for Urban Decision makers acting under IEA International Energy Agency, Energy Conservation in Buildings and Community Systems Programme (2009-2012). Professor Moshfegh was the Chairman for the World Renewable Energy Congress (WREC-2011) on May 8-13, 2011 in Linköping, Sweden. Professor Moshfegh has authored or co-authored more than 150 papers and research reports mainly presented in international journals or at international conferences with referee. His presentation is on: Assessment of air flows in a school building with mechanical ventilation using active and passive tracer gas methods.

Professor Ananda Amarasekara

Ananda Amarasekara is a professor in the department of chemistry at Prairie View A&M University in Texas. He received his Ph.D. in organic chemistry from the City University of New York in 1985. His research interests include cellulosic ethanol, renewable fuels, catalysis in biomass processing, and renewable polymeric materials. For his current research projects he has received funding from numerous funding agencies including; NSF, USDA, and ACS-PRF. He has supervised 24 graduate students and published more than 90 research publications in peer reviewed journals. Since 2010 he serves as the biofuel research group leader at NSF–CREST funded Center for Energy and Environmental Sustainability. He serves in the editorial boards of Journal of Biomass to Biofuel, Current Catalysis and Open Catalysis Journal. Professor Amarasekara has given a number of invited presentations at recent International Renewable Energy Conferences including; ISAF-2015-Gwangju, South Korea, WREC2014-Kingston, UK, CatBior2013-Dalian, China, EMR 2012-Torremolinos, Spain, and ISAF2011-Verona, Italy. He is the author of the book "Handbook of Cellulosic Ethanol" Wiley-Scrivener Publishers-2014.

His presentation is on: "Ionic liquid based artificial cellulase type catalysts for cellulosic ethanol process"

Prof Chigueru Tiba
CHIGUERU TIBA is Professor in the Department of Nuclear Engineering of the Federal University of Pernambuco, Brazil, where he leads the Renewable Energy Center. He teaches Solar Energy Engineering in the Masters and Doctorate programs of the graduate school and also conducts research on physics applied to solar energy, CSP and linear Fresnel, Simulation model for Cylindrical parabolic plants, Siting study for large CSP and CPV, Measurement, assessment and mapping solar resources for CSP and CPV. He’s a specialist in solar resource assessments.

Chigueru, in conjunction with colleagues, were awarded many scientific projects grants from the Brazilian Research Council, ANEEL, CAPES and others. He is the principal team leader of several projects in the area of solar energy, particularly solar resource and large solar plants. Find below a list of his most recent main research projects: GIS for siting of large solar thermoelectric plant (100 MWe) in the semi-arid Northeast of Brazil– ANEEL/CHESF – 2013-2016 (09 stations); HELIOTERM 2: Implementation of a CSP pilot plant (1 MWe) in the semi-arid region of Brazil (Petrolina), FINEP/CEPEL/UFPE/ SECTEC-PE – 2012 – 2015: Solarimetric measurement network in the state of Minas Gerais seeking CSP and CPV applications - ANEEL/CEMIG/PUC-MG/UFPE - 2011 – 2014 (05 stations) and Linear Fresnel and cylindrical parabolic concentrator to produce electricity and industrial process heat, 405569/2013-0, UFPE / CNPq, 2014 -2016.

He has published over 90 peer reviewed congress articles, 40 periodic articles, 04 books or technical publications, and has had fourteen successful PhD and MSc completions. He is the author of the first Solarimetric Atlas for Brazil.

He is a scientific reviewer in several scientific journals including Energy, Energy Conversion and Management, Solar Energy and Renewable Energy and, he also contributes on reviewing research projects for CNPq (National Research Council of Brazil) and CYTED (Spain). Finally, he is currently the coordinator of the organization of the V Brazilian Congress of Solar Energy that occurs between May 31st and April 3rd, 2014, in Recife, PE, Brazil.

His presentation is on: PHOTOVOLTAIC SYSTEM PERFORMANCE INSTALLED IN A COMERCIAL OFFICE

Prof Dr Herman Darnel Ibrahim
Born in 1954. He was a Board Member of DEN, the National Energy Council of Indonesia 2009-2014. He has been very active in promoting Renewable Energy development in Indonesia. Besides serving as a consultant and advisor to several energy companies, he has also served as Vice President of International Geothermal Association [IGA], Expert Board of Indonesian Renewable Energy Society [IRES], Advisory Board of Indonesian Power Society [MKI], and Advisory Board of Indonesia Geothermal Association [INAGA], Indonesia Hydropower Association [INAHA] and Indonesia Ocean Energy Association [INOCEAN].

Professor Ibrahim obtained his First Degree in Electrical Engineering from Bandung Institute of Technology [ITB], an M.Sc. in Electrical Power System Analysis from the University of Manchester, UK, and a PhD in Energy Policy for Power System Development from ITB Bandung. Until 2008 he worked with PLN, the State Electricity Corporation of Indonesia for almost 30 years. He achieved a senior management position at the company as Director of Transmission and Distribution [2003-2008], Director of PT. Indonesia Power, a subsidiary of PLN [1998-2003]. He has written several papers, articles and a book on energy, and in the past decade he has contributed as a Speaker and Panelist at several national and international energy conferences.

His presentation is on: **Wind Power in Indonesia: Regulation, Projects and Development Challenges**

**Dr. Francesca Scalisi**

Francesca Scalisi is Assistant professor at the Department of Architecture, Polytechnic School, University of Palermo. She has Ph.D in “Recovery and Fruition of Ancient Contexts” from University of Palermo, Postgraduate courses in Bio-ecological Architecture and Technology Innovation for the Environment from University of Florence, Master in Architecture from University of Palermo.

Her main research interests are innovative materials for architecture, nanotechnology for architecture, low-energy architecture. She is a professor of Architectural Technology at Polytechnic School, University of Palermo.

Principal Research Project are: *Natural and artificial innovative materials for architecture; Nanotechnologies for unfired clay bricks: tradition, innovation and sustainability; Recovery and conservation of architectural heritage: nanostructured materials and innovative technologies; Nanotechnologies and Cultural Heritage.*

Her International scientific production includes various publications in journals and conferences proceedings; she has authored more than 40 papers and journal articles. She is a reviewer in several International Journals and Research Institute.
Dr. Cesare Sposito

Cesare Sposito is Assistant Professor at the Department of Architecture, Polytechnic School, University of Palermo. He has Ph.D in “Recovery and Fruition of Ancient Contexts” from University of Palermo, Master in Architecture from University of Palermo.

His main research interests are innovative materials for architecture, nanotechnology for architecture, low-energy architecture. He is a professor of Construction Laboratory at Polytechnic School, University of Palermo.

He is responsible for research project: Natural and artificial innovative materials for architecture, Recovery of industrial sites.

He is member of Research Project: Technologies for passive cooling of buildings in Mediterranean climate; Nanotechnologies for unfired clay bricks: tradition, innovation and sustainability; Recovery and conservation of architectural heritage: nanostructured materials and innovative technologies; Nanotechnologies and Cultural Heritage.

His International scientific production includes various publications in journals and conferences proceedings; he has authored more than 40 books, papers and journal articles. He is a reviewer in several International Journals.

His presentation is on: Materials for sustainable architecture in the Mediterranean region.

with Francesca Scalisi

Dr Yue ping Fang

Dr Yue ping Fang is a Research Fellow in the Centre for Sustainable Technologies at Ulster University. He has a BEng in Electrical Engineering and a PhD in Advanced Vacuum Glazing, member of International Solar Energy Society and a fellow of UK Higher Education Academy. Dr Fang has significant experience in the thermal modelling and experimental analysis for advanced glazing systems, in addition to a broad experience in solar energy technologies and fenestration. He has extensive experience in the thermal evaluation of advanced glazing and thermal insulation systems and technologies through experimental characterisation and theoretical evaluation. His extensive experience and excellent work in nonimaging optics area has been recognised by his publication on top journals “Applied Optics”. He has published his research widely in journal and conference contributions in this and related areas. He has continuously completed Advanced
Glazing projects funded by European Union, UK DTI and Irish government and completed several KTP Innovation Projects with local companies. He has been a reviewer for proposals by UK EPSRC, National Natural Science Foundation of China (NSFC) and Netherlands Organisation for Scientific Research (NWO) and a regular reviewer for over ten international journals and a reviewer for international conferences.

His presentation is on: **Thermal performance of vacuum glazing with tempered glass panes**

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**Prof Karen Gambaryan**

Professor Karen Gambaryan has completed his PhD at the age of 28 years from Yerevan State University. He has defended the second doctorate dissertation (habilitation) and received Doctor of Science (Physics) degree at 2013. Since 2004, he is an Associate Professor and Senior Researcher at Yerevan State University. He has published more than 40 scientific papers in reputed journals and has been invited and delivered invited talks in more than 20 International Conferences and Congresses. He is a certified supervisor for PhD and Master of Science students. Under his supervision, two PhD students have successfully completed and defended their theses.

His presentation is on: **Narrow Band-Gap Quantum Dots Diode Heterostructures and Photoconductive Cells for Thermophotovoltaic Applications**

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**Prof Yoshinori Itaya**

Professor, Environmental and Renewable Energy Systems Division, Graduate School of Engineering, Gifu University, Gifu 501-1193 Japan  
Birth Date: August 23, 1957  
Education:  
1985 : PhD, Chemical Engineering, Nagoya University, Japan  
1982 : M.E., Chemical Engineering, Nagoya University, Japan  
1980 : B.E., Chemical Engineering, Nagoya University, Japan  
Career:  
Present – 2015 : Professor, Environmental and Renewable Energy Systems Division, Graduate School of Engineering, Gifu University  
2015 – 2011 : Professor, Department of Mechanical and Systems Engineering, Gifu University  
2011 – 1997 : Associate Professor, Department of Chemical Engineering, Nagoya University  
1997 – 1985 : Assistant Professor, Department of Chemical Engineering, Nagoya University  
1990 – 1989 : Postdoctoral Fellow, Department of Food Science, Rutgers University, U.S.A.

Present Main Research Activities
- Gasification of carbonaceous resources
- Recycling of low rank biomass by hot water treatment, carbonization and gasification
- Heating up of waste low temperature heat by absorption heat pump system
- Environmental energy technology of microwave plasma
- Desulfurization by adsorption from syngas
- Self-energy sewage treatment system combined by compost/drying of sludge

His presentation is on: **Thermal Energy Recovery System Upgrading Waste Heat by Absorption Heat Pump**

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**Mr Javier Remon**

Javier Remón is currently a junior researcher at the Thermochemical Processes Group (GPT), belonging to the University of Zaragoza, Spain.

His research lines include the valorisation of different residues and feedstock such as bio-oil, crude glycerol and cheese whey among others, towards the production of value-added liquid and gaseous products using thermochemical processes. These include steam reforming, aqueous phase reforming, supercritical water reforming and hydrocracking. As a result, he has co-authored several peer-reviewed scientific papers in international Journals listed in the JCR index, different peer-reviewed proceedings papers and has presented several communication to congresses, both with oral and visual contributions.

His presentation is on: **Liquid and gas biofuels from the catalytic reforming of pyrolysis bio-oil in super-critical water. Effect of operating conditions on the process**

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**Dr Neveen Hamza**

Dr Hamza is a Senior Lecturer in the School of Architecture, Planning and Landscape, Newcastle University, United Kingdom. Her research interests include looking at the thermal and daylight performance modelling of buildings to improve human comfort and productivity. She also directs the MSc in Sustainable Buildings and Environments in the School aimed at developing a new generation of architects that are proficient in environmental modelling of buildings and micro urban environments. She has several publications and 7 PhD students completed their research in this technical and social area of research.

She is a Vice chair for the International building Performance Simulation Association-England (IBPSA-England) and the Arab Society for Computer Aided Architectural Design (ASCAAD). She is a reviewer for more than 10 scientific journals in the field as well as being on the editorial board for some of them.

Her presentation is on: **Users Behaviours and Preferences for Low Carbon Homes: Lessons for predicting energy demand**
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.

Some of his presentations with his group (8) are:
1- An expert system for the thermal assessment of architectural building design in Portugal
2- Assessing the Environmental Impact of Governmental Resettlement Housing in Northern Africa – The Case of Morocco
3- Vernacular Design Solutions in Hot Regions: A Study on Erbil Citadel in Iraq
4- Other 5- more

Dr Adriano Milazzo
He obtained his Degree in Mechanical Engineering, University of Florence, 1986, then a PhD in Energy Engineering, University of Florence, the title: Monitoring methods for internal combustion engines.

From 26/7/95, researcher at the School of Engineering, University of L’Aquila – Department of Mechanics, while in 1996 he taught heat transfer and energy management at University of Florence and Department of Energy Engineering “Sergio Stecco. Other areas Dr Milazzo was involved were in the teaching and training of Thermal Machines, Power-plant environmental management, Dynamics, heat storage and ejector chillers. He was a reviewers for few journals and published more than 20 papers in various areas of renewable energy, heat transfer and hybrid vehicles.

His presentation is on: Ejector chillers for solar cooling

Professor Khaled A Al-Sallal

Dr. Khaled A. Al-Sallal is currently a professor of architectural engineering and the director of Daylighting Laboratory at UAE University and his area of expertise is sustainable design with emphasis on building energy. He has a Ph.D. from Texas A&M University and a Master’s degree from Arizona State University. He has been involved in many research projects and consulting services that introduced new building sustainable technologies to the UAE and the Middle East. His teaching and research has focused on building performance and simulation, carbon-neutral design, daylighting, and vernacular and climatic responsive architecture. He produced numerous publications in international refereed journals (17) and scientific conferences proceedings (44), and wrote chapters in 3 edited books published by reputable scientific publishers (Elsevier, Francis & Taylor, Hogrefe & Huber). He is currently editing a book on low carbon low energy architecture. He gave numerous lectures and presentations in various conferences, meetings, and scientific forums. He served as the UAE Representative of the Council of Tall Buildings and Urban Habitat (CTBUH) based in Chicago, USA. He is an active member of Board of Directors of the International Building Performance Simulation Association (IBPSA) and the founder and current president of the UAE Affiliate (IBPSA-UAE). He is also a full member of ASHRAE and the Vice President of the ASHRAE Falcon Chapter. He received several awards including: the best research project award of Engineering for 2007 and the Award of Excellence in Teaching 2000, UAE University.

His presentation is on: Learning Sustainability from the Arab Gulf Vernacular Architecture
Dr Ian Master

He is Associate Professor at the College of Engineering. Specialist Subjects: Renewable Energy, Marine, Ocean, Tidal, Engineering Design

- Senior Lecturer in Mechanical Engineering at Swansea University
- Chartered Mathematician
- Chartered Scientist
- published over 70 technical papers
- Managed over £2m of collaborative R&D projects.

- Head of the Marine Energy Research Group at Swansea University which is based at the world renowned 4* Civil and Computational Engineering Centre, founded by Prof. Zienkiewicz in the 1960s

His presentation is on: The use of computational models to aid the understanding of tidal renewable energy

Dr Arch Mona Azarbajani

Mona Azarbajani is an Assistant Professor School of Architecture at the University of North Carolina at Charlotte (UNCC) where she is currently teaching Design Studio, core building technology courses, Energy Simulation and the use of renewable energies in architecture. Dr Azarbajani holds a PhD from the University of Illinois Urbana Champaign. She was the Lead Principal investigator and faculty team leader for the UNC-Charlotte Solar Decathlon team 2013. Her research in energy performance, natural-ventilation, High performance skins, and carbon neutral building will serve current building technology expertise in the Integrated Design Labs, Energy Performance Lab (EPL).

Her presentation is on: Sweating Skin: Evaporative Skin

Prof Dr Arch Alessandra Battisti
Associate Professor in the Faculty of Architecture of the “La Sapienza” University of Rome, Lecturer in the Environmental Design & Planning Analysis Workshop and the Architecture Technology Course for UE Master's Degree. Director of the 2nd level University Master's degree course in “Valorisation and management of minor Historical centres. Environment Cultur Territory integrated actions. Member of the Faculty Board for the Ph.D. in Environmental Design & Planning, lecturer at the 2nd level University Master's degree course in “Sustainable Architecture and Sustainable Technology for the Environment”. Expert consultant for the European Community - DG XXII – in the Energy in Building sector; expert consultant on the Roster of Consultants and Permanent Roster of Auditors launched by the MIUR (Italian Ministry of Education, Universities and Research). Member of the Working Group for Energy Efficiency of MiBAC. Member of the Working Group for the Environment/Airport Programme of the ENAC launched by the Italian Ministry of the Environment, as an expert in the field of energy efficiency in buildings. Member of the interdisciplinary FOCUS research centre (Training Culture History) of “La Sapienza” University of Rome.

Her presentation is on: Revitalization and refurbishment of Mediterranean minor historical Centres

Prof Myrsini Christou

She is agriculture engineer from Agricultural University of Athens, Greece with MSc on environmental planning. She is working at CRES, Centre for Renewable Energy Sources and Saving, leading the Biomass department, and has over twenty years of experience in a range of R&D activities, related to research and evaluation of growth and productivity of several energy crops, as well as the technical evaluation of integrated bioenergy chains.

She is involved in several European and national projects as scientific responsible and as coordinator in the projects FAIR CT96 2028 “Giant reed (Arundo donax L.) Network”, ENK-CT-2001-00524 “Bio-energy chains from perennial crops in South Europe”, EIE-05-113 ‘Promoting favourable conditions to establish
biodiesel market actions’ and KBB7-208-2B-227299 “Non-food-crops-to-industry schemes in EU27”.

She is a member of the Governmental Committee for drafting the National Renewable Energy Action Plan (NREAP) of Greece, member of the National Committee responsible for the harmonisation of the RED Directive 2009/28/EC and the National representative in the Mirror Group of the European Technology Platform on Biofuels, and in the European Committee for the sustainability in biofuels and bio-liquids. Her research work has been presented in several papers in international journals and Conferences

Her presentation is on: Multipurpose crops for energy and bio-refineries

**Professor Rajat Gupta** BArch MSc PhD FRSA

Prof Rajat Gupta is Director of Oxford Institute for Sustainable Development (OISD) and Low Carbon Building Research Group at Oxford Brookes University (OBU), where he also holds professorial chair in sustainable architecture and climate change. He is recipient of the inaugural 2006 RIBA President’s award for outstanding research related to DECoRuM carbon counting model. In 2013 Rajat was voted as one of 13 international building science stars and joined the Building4Change’s Virtual Academy of Excellence. Rajat is engaged in teaching, research and knowledge exchange activities focussing on advanced low carbon refurbishment, building performance evaluation, and climate change adaptation of buildings. As Principal Investigator, Rajat has won over £7 million in research grants from Research Councils UK, EU, Innovate UK, World Bank, UNEP, RICS and British Council.

Until recently Rajat was Principal Investigator (PI) on a 4.5 year Economic and Social Science Research Council (ESRC) funded £1.14 million RCUK/ESRC-funded EVALOC project on evaluating the impacts of low carbon communities on localised energy behaviours. Rajat has also been PI on an EPSRC funded SNACC project on suburban neighbourhood level adaptation for a changing climate, and an EPSRC CASE award assessing the potential of heat pumps in reducing domestic carbon emissions in a changing climate. Rajat has also been lead academic on numerous UK Government funded projects (Retrofit For the Future, Building Performance Evaluation, Design for Future Climate, Invest in Innovate Refurbishment) with extensive industry collaboration. He is also Co-I on two Horizon 2020 projects – HERON project on ‘socio-economic research on energy efficiency’ and Zero Plus project on positive energy settlements in collaboration with a number of international partners. Rajat has published widely, including strategic research papers on future direction of energy demand research and evaluation of an innovative national deep renovation programme. He advises government at senior level and is on the boards of several key organisations and task groups.

His presentation is on: Learning from building performance evaluation of sustainable homes and civic buildings