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Tentative Program

2nd World Congress on

Wind and Renewable Energy

June 14-15, 2018 London, UK

Theme: "Power Generation and Environmental Protection"



For Available Speaker Slots

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Glimpses of Wind and Renewable Energy





















Glimpses of Wind and Renewable Energy

















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2nd World Congress on Wind and Renewable Energy

June 14-15, 2018 | London, UK

AGENDA

2nd World Congress on
Wind and Renewable Energy

June 14-15, 2018 London, UK

Morning Sessions	**Reception/Registration**	**08.00-09.00**	
		Time	**General Session**
	Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
		09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
Evening Sessions	11.00-12.40	5 Speakers (20 Mins Each)	
	Lunch Break 12.40-13.30		
	13.30-15.30	6 Speakers (20 Mins Each)	
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	5 Speakers (20 Mins Each)	

19 Speakers for **Day 1**

Day 2, June 12, 2018

Morning Sessions		**Time**	**Session 1**	**Session 2**
	09.00-10.40	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Poster Sessions		
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	**5 Speakers (20 Mins Each)**	**5 Speakers (20 Mins Each)**

Awards & Closing Ceremony

30 Speakers on **Day 3**

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

Title: For Sustainable Development of the Whole World by Renewable Energy

Koji Hashimoto

Professor Emeritus

Biography: Koji Hashimoto is Professor Emeritus of Tohoku University (Institute for Materials Research) and Professor Emeritus of Tohoku Institute of Technology. He has been working for 30 years for the supply of renewable energy in the form of methane to the world by electrolytic hydrogen production and subsequent methane formation by the reaction of carbon dioxide with hydrogen. He has published more than 560 papers and received various international awards mostly from Electrochemical Society and NACE International.

Title: Condition Monitoring and Fault Diagnostics of Wind Turbines

Fulei Chu

Professor

Biography: Professor Fulei Chu received his PhD from Southampton University in UK. He is now a professor of mechanical engineering at Tsinghua University in Beijing. He is the Vice President of the Chinese Society for Vibration Engineering (CSVE). He serves as members of the editorial board for many journals, including Journal of Mechanical Engineering Science, Journal of Vibration Engineering, and others. His research interests include rotating machinery dynamics, machine condition monitoring and fault detection, nonlinear vibration and vibration control. He has published more than 300 papers in peer review journals, including more than 30 papers in the Journal of Sound and Vibration and 25 papers in the journal of Mechanical Systems and Signal Processing. He has received many awards in China, inclu

Title: Power Generation and Environmental Protection for Wind Tur

Badre Bossouf

Professor

Biography: Badre BOSSOUFI has completed his PhD at the age of 26 years from Sidi Mohammed Ben Abdellah University Faculty of Sciences, Morocco and PhD. Diploma of the University of Pitesti, Faculty of Electronics and Informatics, Romania and Montefiore Institute of Electrical Engineering, Liege, Belgium, in 2012. He was professor of electrical engineering at the Higher School of Technology, Oujda, Morocco. His research interests include Wind Systems, Power Systems, Electrical Machine Control, FPGA and smart grid. He has published over 25 articles in reputed journals and has been reviewer in IEEE and Elsevier journal.

Title: An Attack-Resilient Communication Architecture for Grid Integration of Renewable Energy Resources

Jin Wei

Assistant Professor

Biography: Jin Wei (Kocsis) is an Assistant Professor in Electrical & Computer Engineering at University of Akron and the director of the Cyber-Physical-Social System Design Lab. She received the Ph.D. degree in Electrical & Computer Engineering at the University of Toronto, Canada, in 2014, her M.S. degree in Electrical Engineering at the University of Hawaii at Manoa, in 2008, and her B.E. degree at the Beijing University of Aeronautics and Astronautics, China, in 2004. She worked as a Postdoctoral Fellow in National Renewable Energy Laboratory (NREL) from April, 2014 to July, 2014. Her research interests include the smart energy systems, cyber-physical systems security and privacy, renewable energy integration, social networks, and cognitive wired/wireless communication networks.

Title: Auditing Wind Farms beside technical issues

Andres Guzman

Professor

Biography: Mr. Andres Guzman has a law degree by the National Autonomous University of Mexico, with various post degree studies in the same institution. He has completed his PhD. at the Panamerican University where he is in thesis process. He also holds several Diplomas of Energy Law, Corporate Audit, COSO Framework and Management Skills. He is professor at the Panamerican University since 2001. He has over 20 years of experience in legal practice, both in the public and private sector, mainly focusing on legal audit and renewable energy regulation. He has participated in various international forums in cities such as New York, Chicago, Atlanta, Miami, Las Vegas, Boston and Sydney. Mr. Guzman is fluent in Spanish (native language), English and Italian.

Title: Fire safety design of wind turbines

Anne S. Dederichs

Associate Professor

Biography: Anne Dederichs has completed her PhD at from Lund Unversity in Sweden. She is associate professor at the Technical University of Denmark since 2006 and carries a position as a senior researcyh scientist at RISE, the Research Institutes of Sweden.

Title: A New Wind Tower Design Almost Doubles the Practical Hub Height

Anthony F. Gee

Engineer

Biography: Tony Gee graduated from Cambridge University and spent the early part of his career with major consulting engineering firms in the UK. He founded Tony Gee and Partners in 1974 and retired from the practice in 1988 to live and work in USA, where he has specialized in the design of purpose-built erection equipment, particularly for the bridge building industry. Before leaving the UK, he was a Fellow of the Institutions of Civil, Structural and Mechanical Engineers. He was a two-term Member of Council of the Institution of Structural Engineers and was also a founding Member of Council of the Steel Construction Institute. He has won numerous awards and has authored over twenty published works and conference papers.

Title: Innovative absorbers for solar thermal systems

Elisa Sani

Researcher

Biography: Elisa Sani, PhD (ORCID ID: 0000-0001-9854-2892) is a researcher at National Institute of Optics (INO-CNR), Italy, where she leads the Solar Energy Materials Laboratory. Her scientific interests are in the field of optical properties of materials for energy and photonics applications. She is author of 77 papers in refereed international journals.

Title: Theory of Electromagnetism and Gravity, Modeling Earth as a Rotating Solenoid Coil

Greg Poole

Engineer

Biography: Greg Poole was born in Auburn, Washington in 1959. He received the B.S. in electrical engineering from Washington State University in 1982. In 1984, he worked for Westinghouse Electric Corporation and spent much of his career working for their Engineering Service Division in the capacity of field engineer, sales and management. Mr. Poole was recipient of several awards at Westinghouse including the prestigious Eagle Award in 1994 for his efforts in renovating the NASA Unitary Wind Tunnel 200,000Hp motors and the commercialization of industrial substations. He also managed field service offices for General Electric, ABB and Square D prior to venturing into his own electrical engineering and testing company. At General Electric, he was involved in many AC drive upgrades of steel mills and paper plants in upstate New York. For the past ten years he has

Title: Multi-objective optimisation of wind turbine sizing aiming at minimising the levelised cost of energy generation inttermitency

Javier Serrano

Assistant Professor

Biography: Javier Serrano González studied Industrial Engineering at the University of Seville and gained a PhD in 2012 from the same university with expezialization in Electric Power Systems. He has been a post-doctoral researcher at Department of Electrical Engineering from 2012 to 2014 and worked as a research fellow at the Joint Research Centre–Institute for Energy and Transport of the European Commission between 2014 and 2016. He is currently an Assistant Professor at the Department of Electrical Engineering of the University of Seville. His primary area of interest are: optimization of renewable energy systems and integration into the grid power.

Title: Dynamic Testing of High Performance Concrete for Large Wind Turbine Towers

Jens Peder Ulfkjaer

Associate Professor

Biography: Jens Peder Ulfkjær has completed his PhD at the age of 28 years from Aalborg University and postdoctoral studies at the Joint Research Center in Ispra Italy. He is ascociate professor at Aarhus University and is working with fracture of materials especially ultra high performance concretes. He has published more than 40 papers.

Title: SnO2/TiO2 Nanohexagon Arrays Heterojunction Photoanode Based Dye-Sensitized Solar Cells with Enhanced Performance

Muhammad Asif Javed

Assistant Professor

Biography: Dr. Hafiz Muhammad Asif Javed has completed his PhD from Electronic Materials Research Laboratory, School of Electronic & Information Engineering, Xi'an Jiaotong University, Xi'an China. He is an Assistant Professor of Physics at University of Agriculture Faisalabad Pakistan. He has published more than 12 papers in well reputed journals. His current research interests include Advanced energy nanomaterials, organic–inorganic hybrid nanomaterials for solar cells, TiO2 nanotubes/nanowires arrays, ZnO nanowires arrays and SnO2 nanotube arrays sensitized with semiconductor quantum dots or organic dyes for photovoltaic and environmental applications.

Title: Study and realization of a mini Solar PV water pumping/turbine system for the production of the small electricity

Paiguy Armand

Assistant Lecturer

Biography: Ngouateu has completed his PhD at the age of 28 years from Dschang University (Cameroon). He is assistant lecturer in the Department of Renewable Energy, University of Buea (Cameroon). He has published more than 10 papers in reputed journals.

Title: III-Nitride Nanowires for Piezoelectric Generation: An alternative way for supplying nomad microelectronic devices

Noelle Gogneau

Researcher

Biography: Noelle Gogneau received her Ph.D. degree in Physics in 2004 from the J. Fourier, Grenoble University. After a post-doctoral position at the Laboratory of Physics of Nanostructures (EPFL, Switzerland) from 2004 to 2006, she joined the Center for Nanosciences and Nanotechnologies from the Paris-Saclay University as CNRS scientist in 2006. From 2011, her research activity is mainly centered on the growth of III-nitrides NWs by Plasma-Assisted Molecular Beam Epitaxy for the nano-energy appications. She currently leads the activities on piezo-generators. She is authors and co-authors of more than 75 referred scientific publications, GoogleScholar (H=18).

Title: Absorption Coefficient of Carbon Dioxide near Earth Surface

Peng-Sheng Wei

Professor

Biography: Dr. Peng-Sheng Wei received Ph.D. in Mechanical Engineering Department at University of California, Davis, in 1984. He has been a professor in the Department of Mechanical and Electro-Mechanical Engineering of National Sun Yat-Sen University, Taiwan, since 1989. Dr. Wei has contributed to application of heat transfer in manufacturing and materials processing, and atmospheric phenomena. Dr. Wei has published more than 90 SCI journal papers, given keynote or invited speeches in international conferences more than 120 times. He is a Fellow of AWS (2007), and a Fellow of ASME (2000). He also received the Outstanding Research Achievement Awards from both the National Science Council (2004), and NSYSU (1991, 2001, 2004), the Outstanding Scholar Research Project Winner Award from National Science Council (2008), the Adams

Title: Solar Thermal Air-conditioning for Queensland's Sub-tropical climates

Ramadas Narayanan

Lecturer

Biography; Dr Ramadas Narayanan is a Mechanical Engineer with diverse ranges of experiences over 20 years.He completed PhD in Sustainable Energy Engineering from the University of South Australia. His PhD research was on the development of a solid desiccant system for dehumidification/cooling in a solar air-conditioning system.
He has over 25 publications including in top rated journals and has over 100-lifetime citations. He received many awards which include an award from Australian Institute of Refrigeration, Air-conditioning and Heating (AIRAH) for outstanding scholarship in the refrigeration and air-conditioning .

Title: Transient Modeling & Fault Analysis of Long Transmission Line using PSCAD

Shahzada Sufyan Syed

Lecturer

Biography: Shahzada Sufyan Syed completed his engineering in electrical power from comsats abbottabad in 2011 and completed his masters in Electrical Power Engineering in 2014. Currently shahzada sufyan syed is working as lecturer in COMSATS Institute of Information Technology, Abbottabad. He has done research work in distributed generation and the research title of the masters work was interconnection of distributed generation (wind/ solar) with utility network.

Title: Wind Effect on the Evolution of Two Obliquely Interacting Random Wave-trains

Suma Debsarma

Professor

Biography: Suma Debsarma has completed her PhD from the University of Calcutta in the year 2007. She is now Professor in the Department of Applied Mathematics of the University of Calcutta. She is Life member of Indian Statistical Institute, Calcutta Mathematical Society and Institute of Theoretical Physics of Kolkata, India. She has published one book and 21 papers in reputed journals.

Title: Increasing the Efficiency of Wind Turbines Electric Generation Capactiy with an Airfoil Spinner

Amelia Peck

Researcher

Biography: Amelia Peck is an 18-year old student who has been doing reaserch in the field of wind energy for the last three years. She was a recepient of the Petit Foundation's Women in Science and Engineering Award, the United Technologies Cooperation's Award for Excellence in Engineering, and the Arthur Mensing Award for Excellence in the Physical Sciences. In 2016, she represented the United States at the International World Energy, Enviroment, and Engineering Project Olympiad (I-SWEEEP), and recieved a silver medal in the energy category.

Title: Incentives and barriers of green energy adoption among residential consumers

Anna Kowalska-Pyzalska

Assistant Professor

Biography: Anna Kowalska-Pyzalska received the M.Sc. degree in management from Wroclaw University of Science and Technology, Wroclaw, Poland in 2001 and the Ph.D. degree in technical science – electrical power systems, from the same University in 2006. Since 2010 she is an assistant professor at Faculty of Computer Science and Management, Department of Operations Research. Anna has an experience in the energy market and economy. Her last papers are devoted to modeling diffusion and adoption of innovative goods in the energy market (e.g. dynamic electricity tariffs) as well as to social acceptance of these goods by the electricity consumers. She is also interested in distributed generation and its integration with the power system. She is a reviewer for JCR listed journals. She participated in realization of a few national or EU grants.

Title: Structure Analysis of Aerofoil Water Turbine on Diminutive Hydraulic System

Pei-Hsun Huang

Researcher

Biography: I have completed my college at the age of 21 years from National Cheng Kung University Department of Resources Engineering and master at the age of 23 years from National Taiwan University Department of Mechanical Engineering. I am a researcher of Industrial Technology Research Institute, Material and Chemical Research Laboratories, a premier material and structure safety service organization. I has published one master papers and attended one conference as poster and two conferences as orator.

Title: Study and Evaluation of Offshore Wind Energy Potential in Indian Sub continent through TRIZ using CFD

Jagdev Singh

Assistant Professor

Biography: Mr Jagdev Singh has completed his Mtech in Mechanical Engineering at the age of 26 years from Punjab Technical University, Jalandhar, India. He is Astt. Prof. In Department of Mechanical Engineering at Rayat Bahra Institute Of Engineering and Nanotechnology, Hoshiarpur , INDIA. He is a life member of ISTE. He has published more than 8 papers in reputed journals.

Title: Towards Extending the Operational Life of Renewable Wind Energy Assets

Mahmood Shafiee

Lecturer

Biography: Dr Mahmood Shafiee (PhD, CEng, MIMechE, MIAM, MORS, FHEA, PGCAP) is an internationally thought-leader in the fields of “Asset Management", "Risk Analysis", "Reliability Engineering" and "Maintenance Optimisation". Currently, he is a Course Director and Lecturer in Engineering Risk Analysis at Cranfield University, and has authored over 100 peer-reviewed journal publications and conference papers. Several of these publications have won best paper awards over the last years for their use of evolving approaches and techniques to develop data-driven predictive asset management solutions for various applications. He has successfully managed a number of national and international research projects funded by different organizations, institutions and industries to optimise the reliability and maintenance decision-making of complex infrastructure

Title: Risk and Reliability of Distributed Energy Generation System

Min Xie

Professor

Biography: Prof Xie has delivered keynote and plenary talks at many international conferences. He has published 300 journal papers and 8 books, including “Software Reliability Modelling” by World Scientific, “Weibull Models” by John Wiley, “Stochastic Aging and Dependence for Reliability” by Springer, “Advanced QFD Applications” by ASQ Quality Press. He is an editor, associate editor and on the editorial board of many established international journals, including as Editor for Reliability Engineering & System Safety and Area Editor for Computers & Industrial Engineering. He has supervised about 50 PhD students, currently holding various positions in academia or industry. Prof Xie was elected fellow of IEEE in 2005 for his contribution in Systems and Software Reliability.

Title: Voltage Regulation with Energy Strorage Application in Distribution Feeders with High Penetration of PV

J. O. Petinrin

Principal Lecturer

Biography: J. O. Petinrin received his M.Eng. degree in Electrical Engineering from the Federal University of Technology, Akure, Ondo State, Nigeria in 2007. He received his Ph.D. degree in Electrical Engineering from Center of Electrical Energy Systems, Faculty of Electrical Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia in 2015. His research interests include distributed generation, renewable energy integration, smart grids and voltage control of distribution systems. He is currently a Principal Lecturer at Federal Polytechnic, Ede, Osun State, Nigeria. Engr. Dr. J.O. Petinrin is a Registered Engineer with Council of Regulation of Engineering in Nigeria (COREN), Member, Nigeria Society of Engineers (NSE) and Member, IEEE.

Title: Short term PV Power Forecasting for Smart Grid Energy Management

Mohammad Rizwan

Assistant Professor

Biography: Dr. M. Rizwan received the Ph.D. degree in power engineering from Jamia Millia Islamia, New Delhi, India. He is presently associated with Delhi Technological University, Delhi, as Assistant Professor in the Department of Electrical Engineering. He has published/presented more than 65 research papers in reputed international and national journals and conference proceedings. Dr. Rizwan has been awarded three research projects in the area of renewable energy systems and power quality. He is the recipient of UGC research award for the period of 2014-2016. Also he has been awarded Raman Fellowship for Post-Doctoral Research for Indian Scholars in USA for the Year 2016-17. He has completed his post-doctoral research at Virginia Polytechnic Institute and State University, USA. His area of interest includes power system engineering, renewable energy

Title: Multidimensional Sustainability Modelling of the Renewable Energy Systems: the Case of the UK

Stanislav Shmelev

Director

Biography: Dr Stanislav Shmelev has a PhD in Economics (2003), is a LEAD Europe Fellow (2007) and was named one of the most promising economists in the world by the Handelsblatt Newspaper. He is the director at an Oxford sustainability think-tank, Environment Europe Ltd and a Visiting Lecturer at the University of Edinburgh. Formerly a Senior Researcher at Oxford University, Dr Shmelev was a Visiting Professor at the Universities of Geneva, Paris, Versailles, European University in St Petersburg, Kazakh National University and National University of Colombia and consulted international organizations: UNEP, UNDP, IUCN, OECD and businesses. He is an author of 'Ecological Economics: Sustainability in Practice' (2012) and author and editor of 'Green Economy Reader' (2017) and 'Sustainability Analysis: An Interdisciplinary Approach' (2012).

Title: SWOT Analysis for Iran's Wind Farms

Akbar Adibfar

Managing Director

Biography: Akbar Adibfar is currently Managing Director and member of board of MAPNA Renewable Energies Co. This company is owner and investor in renewable energies and now it have 3 wind farm in Iran and will invest 500 mw in wind farm and 100 mw solar farm, PV type. He is author of two books "Wind Power Plant" and "Water Desalination Plants" an more than 10 international papers. He has over 20 years of experience as an engineer and project management. He is member of R&D workshop in MAPNA Group and he has PMP certificate.

Title: Design of an Airfoil for a Small Horizontal Axis Wind Turbine Utilizing Converted Energy from the Wind Shade Region

Jayakrishnan Radhakrishnan

Professor

Biography: Jayakrishnan Radhakrishnan is a Professor in the Aeronautical Engineering Department at the Manipal Institute of Technology, India. Wind energy conversion systems have been his area of focus for the past seven years. He is also the chair of the Betz Wind Energy Research Center at Manipal University, and the key coordinator for an upcoming startup WindME, that focuses on renewable energy systems for the mass population.

Title: Improving the life-cycle of Lithium-ion battery packs to support wind renewable fluctuations

Kamyar Mehran

Lecturer

Biography: Dr Kamyar Mehran is a Lecturer in Power Engineering in Queen Mary University of London, UK. He worked in University of Warwick as a research fellow (2013-2015), Newcastle University and Imperial College London (2010-2013) as a research associate and commercialization Manager for a spin-off company, OptoNeuro Ltd. He received his PhD degree in Newcastle University, UK in 2009. Prior to his academic career, he collected over 8 years of industrial experience in companies like Sun Microsystems (Oracle), and National Iranian Oil Company. His current research interests include nonlinear dynamics, intelligent control/optimization of energy storage systems, high-switching power electronic converters, and home energy management systems.

Title: Research, Opportunities, and Challenges in Low Speed Wind Turbines

Kendrick Aung

Professor

Biography: Kendrick Aug has completed his PhD at the age of 25 years from Andhra University and postdoctoral studies from Stanford University School of Medicine. He is the director of XXXX, a premier Bio-Soft service organization. He has published more than 25 papers in reputed journals and has been serving as an editorial board member of repute.

Title: A computational study on Earth Air Heat Exchanger (EAHE)

Namrata Bordoloi

Student

Biography: Namrata Bordoloi is pursuing her MTech in Thermal Engineering from Lovely Professional University, Punjab and will be completing her MTech in July 2017. She has worked on CFD and has about 4 papers on CFD which will soon be published.

Title: The implications of Risk Management on the Delivery and investments of Wind and Other Renewable Energy Projects

Aminu Bature

Research Associate

Biography: Aminu Bature and Barbara Vardijan have both completed their MSc from Birmingham City University. Aminu is presently a Research associate at the Centre for Low Carbon Research and Bioenergy Research Group, School of Engineering and the Built Environment, Birmingham City University.

Title: Ontology and rules: instruments to improve semantic clustering

Elham Bahrami Foroutan

Teacher

Biography: Elham Bahrami Foroutan has completed her Master of software computer engineering at the age of 27 years from Malayer Azad University. She is the teacher of Hamedan Elmi-Karbordi University, a technical and engineering University. He has published one paper in reputed journal.

Title: Improved control of DFIG-based stand-alone wind turbine under unbalanced and nonlinear load conditions

Fateh Abdoune

Phd Student

Biography: Fateh Abdoune was born in Bejaia, Algeria, in 1984. He received the M.S. degree in electrical engineering in 2011 from the A/Mira University of Bejaia, Bejaia, Algeria, where he is currently working toward the Ph.D. degree in electrical engineering at the Department of Electrical Engineering. His research interests include control of electrical drives, modeling, wind turbine, and control in ac machines.

Title: Major Sources of Renewable Energy like Wind and Poverty Alleviation on a sustainable way in the Developing Nations

M. Usman

Scientist

Biography: Mr. Muhammad Usman, Former Director General of Agricultural Research System, Government of Pakistan who retired from service after a spotless career of about 35 years with senior level experience on research and development of agricultural industry with regard to livestock and dairy development, poultry, aquaculture and apiculture, crop production, horticulture, vegetable, seed production, processing plant, bioenergy, renewable energy.

Mr. Usman is basically an agricultural scientist with specialization of agricultural working as plant breeder with regard to the yield and quality of various agriculture as well as bio-energy. Mr. Usman has also worked on Bio-energy, renewable energy-wind.

Title: Renewable & Sustainable Energy : Challenges

Paul Saliba

Ex-Assistant Director

Biography: Currently a retired senior public officer who had assumed the Green Leader role, an integral component of his portfolio within the Ministry of Health (Malta). He participated as representative of the Ministry in several high profile international and European Conferences and Fairs, presenting a Paper Assuming the Green Leader's Role at Workplace – A Critical Analysis and acted as a moderator in one of the Sessions at the 2nd European Conference & Fair : Education for Sustainable Development – Hamburg (2006). He is also chapter author of the Book Sustainable Economic Development : Green Economy and Green Growth (Springer, 2016).

Title: Experimental Evidences for Abdelmohsen Theory for Morphology Transition Engineering (ATMTE)

Ahmed Abdelmohsen

Researcher

Biography: Ahmed Abdelmohsen will complete his European Masetr (FAME program) at Augsburg University, Grenoble INP-PHELMA and Université Catholique de Louvain on SEP 2017. He had BSc. Chemistry (TOP Scholar) on Beni-Suef University, Faculty of Science. He is the principal researcher for morphology transition engineering. He had postulated two theories for engineering the morphology transition of both binary compounds and solid compounds.

Title: A parametric study of semi-transparent Trombe wall design for passive heating and cooling in hot climate

Alaa Al-hwaidi

Architectural Designer

Biography: Alaa Al-hwaidi has completed his BSc at the age of 23 years from University of Technology and Master studies (MSc) from University of Nottingham/ School of Architecture and Built Environment. He is an Architectural designer in the state company for oil projects (SCOP)/ Ministry of oil.

Title: The Carousel type Two-Rotary Wind Turbine

S.E. Sakipova

Professor

Biography: Candidate of Physics and Mathematics, Professor, executor of scientific projects, invited researcher of ESF project, Riga, Latvia, author of 75 papers in reputed journals and 7 patents.

Title: Measurement Technique of Wind Speed and Direction with a Rotating 3-Axis Ultrasonic Anemometer for Installation on Wind Turbine Spinner

Byeong Hee Chang

Researcher

Biography: Byeong Hee Chang has graduated from Korea Advanced Institute of Science and Technology (KAIST) in 1996 with PhD and worked in KARI. In KARI, he woked in wind tunnel design, construciton, and wind tunnel tests. Since 2016, he had been interested in this measurement technique with a roll-rotating ultrasonic anemometer for measuring wind speed and direction. In 2017, he did a validaton research with wind tunnel tests.

Title: Installation and Design of a New Wind Tunnel for Measurement of Vertical Axis Wind Turbines (VAWT)

Frank Ulrich Rückert

Professor

Biography: Frank Ulrich Rückert has studied process engineering and received his PhD from University of Stuttgart in the field of combustion technology. He worked for over 12 years at Robert Bosch GmbH in pre-development, advanced design and computational fluid dynamics. In 2016 he got his professorship call for Fluid Energy Machines from University of Applied Sciences, Saarbrücken, Germany. He holds over 45 patents and has written several international publications.

Title: Gallium Nitride Power Electronics for Renewable Energy

Nikita Hari

Director

Biography: Nikita is a Doctoral Scholar in Electrical Engineering at the University of Cambridge. She is a scientist , academic, engineer and social tech entrepreneur. She did her masters in power electronics and bachelors in electronics & instrumentation engineering graduating with first rank and gold medals for both. Nikita is the co-founder of start-ups Wudi & Favalley & serves as the director of Innovation Disruption Cell, Probiz, mentor at Career Horn, research consultant at BrainAura, advisory board at Next Tech Lab & global ambassador at Queen Elizabeth Prize for Engineering. The recipient of 'Top 50 Women in Engineering', Developher Entrepreneur Award, Forbes and Hult Prize finalist with other numerous awards & recognition to her credit, she is a regular invited speaker at STEM outreach events and tech conferences. Her research interests are in the area of gallium

Title: A Novel Super Performance Dew Point Air Conditioner

Xiaoli Ma

Senior Research Fellow

Biography: Xiaoli Ma is a Senior Research Fellow at the School of Engineering and Computer Science, University of Hull (UK), and has experienced in research in the areas of sustainable building services, renewable energy, and energy efficiency technologies. She has a number of research projects funded from EU, EPSRC, Innovate UK, National Science and Technology Committee, China, Industry. Dr Ma has published 58 peer-reviewed papers in high impact scientific Journals and International Conferences, 1 book chapter and claimed 2 patents. She is Editorial Board member of 4 international Journals and a paper reviewer of 16 international Journals including ASHRAE, Renewable Energy and Applied Energy, etc.

Title: Managing variability of renewable energy resources on networks with rising renewable generation

Fereidoon Sioshansi

President of Menlo Energy Economics

Biography: Dr. Sioshansi is President of Menlo Energy Economics, a consulting firm based in San Francisco advising clients on rapid transformation of the electricity sector and emerging business models. He is the editor and publisher of EEnergy Informer, a monthly newsletter with international circulation.

He has over 35 years of experience including working at Southern California Edison Company (SCE), the Electric Power Research Institute (EPRI), National Economic Research Associates (NERA), and Henwood Energy, now part of ABB.

Since 2006 he has edited 10 books published by Academic Press, the latest titled Innovation and disruption at the grid's edge: How distributed energy resources are disrupting the traditional utility

Title: A Big Wind Energy Data Analytic Paradigm - From PCA to Machine Learning

Mo Jamshidi

Professor

Biography: Mo Jamshidi is a Life Fellow IEEE, Fellow ASME, A. Fellow-AIAA, Fellow AAAS (American Association for Advancement of Science), Fellow TWAS (The World Academy of Sciences), and Fellow NYAS (New York Academy of Science), Fellow of Hungarian Academy of Engineering and Member of Russian Academy of Nonlinear Systems. He received BS (Cum Laud) in electrical engineering, Oregon State University, Corvallis, OR, USA in 1967, the MS and Ph.D. degrees in electrical engineering from the University of Illinois at Urbana-Champaign, IL, USA in June 1969 and February 1971, respectively. He holds honorary doctorate degrees from the University of Waterloo, Canada, 2004, Technical University of Crete, Greece, 2004 and Odlar Yourdu University, Baku, Azerbaijan in 1999. Currently, he is the Lutcher Brown Endowed

Title: Currents of electrons do not develop energy systems, current of money do- Facilitating 'Consumer Power' in deregulated power

Per Ribbing

Energy Advisor

Biography: Sir Per Ribbing completed his Masters Degree in Engineering Physics at Linköping University 1989. He later entered into the area of Sustainable Development after a close encounter with oil wars. He was the Energy Advisor for the Swedish Society for Nature Conservation 1997-98 and worked with energy matters at the Nordic Eclolabel 2004-2010. He also runs his own company; Perpetuum Energy & Environment where he is a public speaker, consultant and educator. At present he is a PhD student at Uppsala university writing his thesis on Climate Change Leadership – the case for Electrification. He has arranged monthly speaker pubs (ENVIRONMENTALE) for the NGO Swedish Engineers for Sustainable Development since 1996. Sir Ribbing stopped flying 2008 and came here by train and electric bike.

Title: Application of nano-materials for renewable energy sector

P. Selvan

Professor

Biography: Dr.P. Selvan, graduated his BE in the department of Electrical and Electronics Engineering from Alagappa Chettiar College of Engineering and Technology, Karaikudi. He has done his post graduation in Power System from Regional Engineering College, Tiruchchirappalli (Presently National Institute of Technology). He obtained his doctoral degree from Anna University in the area of Power Systems. Totally he is having more than 20 years of teaching experience and 2 years of industry experience. Currently he is working as a Professor and Head of Electrical and Electronics Engineering department at Erode Sengunthar Engineering College, Erode. His areas of interest include power system, FACTS controllers. He got Anna University Supervisor Recognition. He guided one Ph.D. student. He published 30 papers in various national/international journals. He

Title: Environmental Consciousness and Choice of Bulb for Lighting in a Developing Country

Anthony Amoah

Researcher

Biography: Anthony Amoah obtained his PhD from the University of East Anglia, UK. He has since then been working with the Department of Economics, Central University in Ghana. His current research focuses on Environmental and Development Economics related issues. Apart from having several peer reviewed published papers to his credit, he is also a reviewer for some of these journals. Currently, he serves on some academic editorial boards as well as on non-academic boards in industry.

Title: Advances in wind energy conversion

Asfaw Beyene

Director of the Renewable Energy and Energy Efficiency

Biography: Prof. Beyene graduated with Ph.D. from Warsaw University of Tech., Warsaw. He is a Fellow member of ASME and currently serves as Director of the Renewable Energy and Energy Efficiency at SDSU. Dr. Beyene's research integrates analytical, computational, and experimental techniques to address fundamental and practical problems of energy conversion. He has developed novel methods for wind and wave energy conversion. Over the years, Dr. Beyene has attracted several millions of dollars in funding from NSF, DOE, US Navy, CEC, and others. Professor Beyene is the recipient of many research and teaching awards. He has authored significant number of refereed journal articles, conference proceedings, and technical reports.

Title: Impact of Hybrid Distributed Generation in Power Distribution System

Deependra Singh

Professor

Biography: Deependra Singh received the B.Tech. degree in Electrical Engineering from Harcourt Butler Technological Institute, Kanpur India in 1997, the M.E. degree in Electrical Engineering From the University of Roorkee, Roorkee India in 1999 and Ph.D. degree in Electrical Engineering from Uttar Pradesh Technical Univeristy, Lucknow India.
Presently, he is a Professor in Department of Electrical Engineering, Kamla Nehru Institute of Technology, Sultanpur (UP) India. His research interests are Distributed Generation planning and Distributed System Analysis.

Title: Wind Farms the Next Generation of Ancillary Services in Power System

M. Gholami

Assistant Professor

Biography: Mostafa Gholami has completed his PhD at the age of 30 years from Amirkabir University of Technology. He is currently the Assistant Professor of University of Science and Technology of Mazandaran. He has published more than 16 papers in reputed journals and international conferences.

Title: Tagattach Tag-Plate Hands Free Turbine Turning Kit Incorporating Tagattach Professional Heavy Lifting Taglines

Tony Walker

Sales Director Tagattach Ltd

Biography: The author has had a unique opportunity to work within sales and heavy lifting environments. Having completed his studies, he worked in the lifting industry as a slinger and piling rig attendant within piling & foundations before moving on to sales and business development. Beginning his journey in retail as a sales assistant and quickly moving up the corporate ladder as a sales executive and finally reaching the position of national award winning regional business manager with a large U.K corporate

The unique mixture and in-depth knowledge of both industries has given the author a heterogeneous skill set that has allowed him to build the Tagattach brand to a globally recognised product, with hub distributors in 4 continents and products sold in over 160 countries.

Title: Performance analysis of Intelligent Proportional-Integral Sliding mode control for DFIG based wind turbine with 500KW capa

Vijayalaxmi. M

Assistant Professor

Biography: M. Vijayalaxmi, is an Assistant Professor in the Department of EEE, College of Engineering, Guindy, Anna University, Chennai, Tamilnadu, India. She has completed Bachelor's degree in Electrical and Electronics Engineering in 2000 from Madurai Kamaraj University, Tamilnadu, India and Master's degree in Process Control and Instrumentation in 2002 from National Institute of Technology, Trichy Tamilnadu, India. She has published research papers in International journals and conferences. Her area of interest is designing controllers for wind energy conversion system.

Title: Renewables and Energy Storage a Pilot Project in India

A.D.Thirumoorthy

Chief Technical Advisor, Indian Wind Power Association

Biography: A.D.Thirumoorthy is Bachelor In Electrical Engineering and MS is Power Quality. After 32 years of experience in Power Utility is freelace consultant and Chief Technical Advosor for Indian Wind Power Asociation,India. Associated with number of research projects in India.

Title: The Case study of Hybrid Energy Storge System for Wind Turbine in Glasgow

Yu tack Kim

Manager of Korea Battery R&D Association

Biography: Dr. Yu tack, Kim has completed his PhD from Yonsei University. He is the manager of Korea Battery R&D Association and Korea Battery Industry. He has a expert in International Standard of IEC TC21/SC21A and ISO.

Title: Energy Transitions in the MENA Region

Brian Efird

Senior Research Fellow

Biography: Brian Efird is a Senior Research Fellow and the Program Director for Policy and Decision Science at the King Abdullah Petroleum Studies and Research Center (KAPSARC). He manages a global program of work focused on energy policy and energy economics. This program encompasses a multi-disciplinary, multi-national team of researchers who focus on quantitative models of collective decision making processes (CDMP), geospatial information system applications to energy economics and energy policy, demography and energy, and energy policy studies of countries in the Gulf Cooperation Council (GCC) region. Dr. Efird is Co-Editor-in-Chief of a new journal from Springer Scientific called Energy Transitions.

Title: Solar Cell Photovoltaic Model Shell SP 75

K.B. Bencherif

Faculty of Sciences and Techniques

Biography: Bencherif Kamel Benamor First Year PhD student in the Department of Electrical Engineering, Faculty of Sciences and Techniques, University Abdelhamid Ibn Badis Mostaganem.

Title: Wind Farm Power Performance Verification Using Non–parametric Statistical Inference

Maja Celeska

Teaching Assistant

Biography: Maja Celeska is a PhD candidate at the age of 28 years from Skopje, Republic of Macednia, working as a teaching assistant at the Ss. Cyril and Methodius University in Skopje. Curently preparing PhD thesis on the topic “Methods for wind farm layout optimization in condition of a complex terain”, at the Technical University of Graz, Austria. She has published more than 10 papers in reputed international conferences.

Title: Optimization and Control of Wind Energy Systems

Mario A. Rotea

Professor

Biography: Mario A. Rotea is the holder of the Erik Jonsson Chair in Engineering and Computer Science at the University of Texas at Dallas, where he is also the department head of mechanical engineering. Rotea spent 17 years at Purdue University as a professor of aeronautics and astronautics, developing and teaching methods for the analysis and design of control systems. He also worked for the United Technologies Research Center as senior research engineer on advanced control systems for helicopters, gas turbines, and machine tools. Rotea was the head of the Mechanical and Industrial Engineering Department at the University of Massachusetts Amherst, where he expanded the department in the area of wind energy and applications of industrial engineering to the health care sector. His career includes terms as director of the Control Systems

Title: Engineering Options for an Emission-free Global Economy by 2050

Max F. Platzer

Emeritus Professor

Biography: Max F. Platzer is distinguished emeritus professor of mechanical and aerospace engineering at the Naval Postgraduate School, an adjunct professor of mechanical and aerospace engineering at the University of California Davis and president of the research & development partnership "AeroHydro Research & Technology Associates. He is a graduate of the Technical University of Vienna, Austria. He was a member of Wernher von Braun's SATURN space vehicle development team at the NASA Marshall Space Flight Center, chief of the aeromechanics research group at the Lockheed-Georgia Research Center and professor/chair of the Department of Aeronautics & Astronautics at the Naval Postgraduate School. He is a Fellow of AIAA and ASME and editor of the international review journal "Progress in Aerospace Sciences".

Title: Foldable Wind Turbine Blade

Rezvan Gharehbaghi

Student

Biography: Rezvan Gharehbaghi has completed his Master’s degree at the age of 25 years from University of Johannesburg.

Title: Principle of Geoexchanger Systems for Buildings Heating and Cooling

Abdeen Omer

Associate Researcher

Biography: Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies. He has been graduated from University of El Menoufia, Egypt, BSc in Mechanical Engineering. His previous experience involved being a member of the research team at the National Council for Research/Energy Research Institute in Sudan and working director of research and development for National Water Equipment Manufacturing Co. Ltd., Sudan. He has been listed in the book WHO’S WHO in the World 2005, 2006, 2007 and 2010. He has published over 300 papers

Title: VORTEX – Resonant wind generator

David J. Yáñez Villarreal

Engineer

Biography: David J. Yáñez Villarreal is an industrial engineer in electronics and automation by the University of Valladolid and he has a master's degree in Natural Computing which he obtained while he belonged to the Biological Neurocomputation Group of the Universidad Autónoma de Madrid. He is the inventor of Vortex generators and he is co-founder and co-CEO of Vortex Bladeless S.L. He is also co-founder of Deutecno S.L. His professional activity has received some awards such as the 1st Ibero-American Award for Innovation and Entrepreneurship in 2012 and APEA 2017 Renewable of the Year Award. He worked for two years at the Highest Scientific Research Council. He has licensed more than a dozen patents and he has published 4 papers in reputed journals.

Title: Performance of Homogeneous Catalyst and the optimization of Kinetic Parameters on Triglyceride based Diesel fuel

Fathima Jalal

Assistant Engineer

Biography: Fathima Jalal has completed his Masters in Chemical Engineering at the age of 25 years from Anna University. She has been working as Assistant Engineer in the Tamilnadu Pollution Control Board. She has published more than 2 papers in reputed journals and presented papers in more than 10 National/International Conferences around the World

Title: A Novel contactless ground based radar to monitor in-field wind turbine blades and towers

Francis Xavier Ochieng

Research Fellow

Biography: Xavier has is undertaking his PhD at the University of Nottingham, and has been a practioner on renewable energy and particurlarly wind energy. He is a research fellow at the institute of energy and environmental technology at the Jomo Kenyatta University of Agriculture and Technology. Morevoer, he has undertaken over 25 international consultancies for the European Union in the area of Renewable energy in addition to being a reviewer for the Journal of Renewable energy reviews.

Title: WindXpress® New Concept Vertical Axis Wind Turbine and the energy train

Gyorgy Beck

Retired Economist/Management Consultant/OD Consultant

Biography: György Beck is a retired economist/management consultant/OD consultant, joining the Bausystem Ltd. – a project company focusing on the development of the WindXpress® His task is the marketing communication and the sales of the patents related to the WindXpress®. Also his role has been the project management in the installation of the 2 prototypes in Hungary that are to be presented on the conference and also providing the experience for the further development and demonstrate the viability of the concept.

Title: Engineering and Socio-Economic Aspects of Sustainable Energy and Transportation

Mehrdad Ehsani

Engineer

Biography: Dr. Ehsani has been a member of IEEE Power Electronics Society (PELS) AdCom, past Chairman of PELS Educational Affairs Committee, past Chairman of IEEE-IAS Industrial Power Converter Committee and past chairman of the IEEE Myron Zucker Student-Faculty Grant program. He was the General Chair of IEEE Power Electronics Specialist Conference for 1990. He is the founder of IEEE Power and Propulsion Conference, the founding chairman of the IEEE VTS Vehicle Power and Propulsion and chairman of Convergence Fellowship Committees. In 2002 he was elected to the Board of Governors of VTS. He is a Fellow of IEEE, an IEEE Industrial Electronics Society and Vehicular Technology Society Distinguished Speaker, IEEE Industry Applications Society and Power Engineering Society Distinguished Lecturer. He is also a registered

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