

Topic 1 : Renewable Energy



Prof. Mounir AKSAS

Batna1 Universityf, DZ

Mounir Aksas received the B.S. degree in Energy Engineering from the University of Batna, Algeria, in 1995, his M.S and Ph.D. degrees in Fluid Mechanics from the Polytechnic University of Bucharest, Romania in 1998 and 2001 respectively.

From 2002 to 2007 he has taught mathematics at the high School "Le Touar/NAFVECO" in Toulon, France. Since 2007, he has been an Assistant Professor and then full Professor in 2015 at the University of Hadj Lakhdar Batna 1, Algeria, where he has taught Renewable Energy Resources and Technologies and Applied Fluid Mechanics. He is currently a permanent member in the Laboratory of physics and Energetics Applied (LPEA), Department of Materials Sciences, University of Batna 1. His research interests are in the Thermal Solar Systems and applications (Solar water heating, cooling solar technologies and Heat Pumping technologies) and Modeling of Renewable Energy Systems. Dr. AKSAS is author or co-author of several scientific articles in international journals and conferences, He had supervised several Master and Ph.D. theses.



Prof. Boubaker AZOUI

Batna2 University, Batna, DZ

Boubakeur Azoui was born in 1955 in Ouled Makhlof, Algeria. He Received the Diplôme d'Ingénieur en Electrotechnique", from USTO University, Algeria in 1980, the Magister (1990) and Doctorat d'état (2002) from Batna University, Algeria, with cooperation with TU Berlin Germany (as part of the GIZ cooperation project). Since 1980, he holds a teaching and research position at the Electrical Engineering Department of Batna University. His area of research interest is in Renewable Energy and their applications. Since 2010, he has published more than 50 papers in journals and communications in conference proceedings. He holds visiting positions in many universities in Algeria. He served as member of scientific committee of different conferences and journals, partial consultant Elsevier for books, and as expert for the evaluation of national research projects. He is currently the team Leader of solar energy, modeling and experimentation of electromagnetic phenomena in systems and physics of electrotechnical materials in LEB Laboratory.



Prof. Belkacem BARKAT

Batna 2 University, DZ

Belkacem Barkat ws born in 1965 at Chemora W. Batna. He is professor at the Mechanical Eneengineering Department, University Batna 2. He holds a Bachelor in Mechanical Construction on INES, Batna in 1989, a DEUA in ME from UFR Poitiers, France (1990), and a Doctorat 3em cycle in Mechanical Engineering Génie Mécanique, UFR Poitiers France, 1994, and « Equivalence of Doctorat d' Etat, 1998 ». His field interest includes Industrial robots, design, fabrication, modeling, and optimisation. He works also on renewable energies: Photovoltaics (PV), CPV, CSP, wind, sun tracking systems and solar pumping. He leads the Robotics activity and is member of the team working on Renewable energies Energies in the Laboratory of Industrial Energy Systems Studies (LESEI).



Prof. Maamar BETTAYEB

University of Sharjah, UAE

Prof. M. Bettayeb received the B.S., M.S., and Ph.D. degrees in Electrical Engineering from University of Southern California, Los Angeles, in 1976, 1978 and 1981, respectively. He worked as a Research Scientist at the Bellaire Research Center at Shell Oil Development Company, Houston, Texas, USA. From 1982 to 1988, he directed the Instrumentation and Control Laboratory of High Commission for Research in Algeria, where he led projects in the field of modeling, simulation, and control design of large scale energy systems, with applications to nuclear, solar and electric power systems. In 1988, He joined the Electrical Engineering Department at King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. He has been Professor at University of Sharjah UAE since August 2000. He is the Vice Chancellor for Research and Graduate Studies at University of Sharjah, starting September 2014. He has published over 350 journal and conference papers in the fields of control and signal processing. He has also

supervised over 50 M. Sc. and Ph. D. students. Prof. Bettayeb received the Best Distinguished Research Award and the Outstanding Advisor Award at KFUPM and the Best Researcher Award at University of Sharjah. His recent research interest is in H_∞ optimal control, rational approximation, signal and image processing, process control, networked control systems, fractional dynamics and control, nonlinear estimation and filtering, soft computing, wavelets, renewable energies and engineering education.

Dr. Yacine BOULFRAD

Scatec Solar, NOR

Dr Yacine BOULFRAD is Data Analyst and R&D program manager at Scatec Solar, Norway. He has over 12 years' experience in solar PV field combining academia and industrial research. He received PhD degree in materials science from Norwegian University of Science and Technology (NTNU) in 2012, M.S in Solar Energy from Université de Perpignan -France- in 2008, M.S in Materials Physics from Université de Rouen -France- in 2007 and Engineering degree in Metallurgy from Ecole Nationale Polytechnique – Algiers- in 2006. He worked as Postdoctoral researcher at Aalto University -Finland- leading a project on light induced degradation of silicon solar cells. He worked also as R&D Engineer/Scientist at Norwegian Crystals where he led R&D activities on process and quality development of monocrystalline silicon material for solar cell application. His recent interests are around solar PV plants performance evaluation, new PV modules technologies, anti-soiling coating, PV modules robotic cleaning, PV systems simulation, solar PV data analytics, machine learning applications in solar PV.

Pr Nouredine FENINECHE

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Prof. Nouredine FENINECHE is the Head of Additive Manufacturing, Fuel Cells Lab, Head of Industrial Relations, Mechanical Engineering and Design Department, Université de Technologie de Belfort-Montbéliard. He obtained his PhD Thesis in Mechanical Engineering and Materials from the University of Technology of Compiègne (UTC), France. His main Research activities and expertise are focused on: New and innovative materials for energy and hydrogen storage using both Ab initio calculations and experimental synthesis: Synthesis of Nanomaterials for IT-SOFC Fuel Cells. Magnetic thin films for Sensors and actuators. DMS materials for spintronic applications, Amorphous and Nanocrystalline Coatings intended for magnetic shielding using HVOF and cold spraying, Magnetic materials processed by Selective laser Melting SLM and 3D and 4D printing. He published more than 120 papers in refereed Journals, 115 international conferences proceedings and delivered more than 35 invited talks in international conferences.

Dr Chaouki GHENAI

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Dr C. Ghenai an Associate Professor at the Sustainable and Renewable Energy Engineering Department (SREE), College of Engineering; Coordinator of the Sustainable Energy Development Research Group (SEDRG), Center for Sustainable Energy and Power Systems (CSEPS) at the Research Institute for Sciences and Engineering (RISE), and the Chairman of the Research Funding Department at the Office of Vice Chancellor for Research and Graduate Studies, University of Sharjah. Dr. Ghenai received his PhD and Master's degrees in Mechanical Engineering from Orleans University, France. Before Joining the University of Sharjah, Dr. Ghenai was an Assistant Professor at Florida Atlantic University, Boca Raton, and Project Manager at the Applied Research Centre, Miami, Florida. He worked also as a post doc at Cornell University (Ithaca, New York), and Research Associate at Kansas State University (Manhattan, Kansas), and University of California Los Angeles. He received several teaching and research awards including: Distinguished Faculty Research Award, University of Sharjah, Award for Excellence and Innovation in Undergraduate Teaching, Florida Atlantic University, Dubai Award for Sustainable Transport), 7th Sharjah Sustainability Award, and 6th Sharjah Sustainability Award (Green Campus). Dr. Ghenai has published more than 100 journal papers, book chapters, and books. His research interests are renewable energy (bioenergy, solar, wind, and fuel cell), energy efficiency (building, transportation, industry), combustion (solid, liquid and gas fuels), biofuels, alternative fuels (biogas, syngas, bio-oil, biodiesel, hydrogen), clean combustion technologies, waste to energy (pyrolysis, gasification, anaerobic digestion), sustainability, eco-design, energy-water nexus, energy planning and modeling and simulation of micro grid power systems and air pollution.



Dr. Issam MALKI

Westminster Business School, University of Westminster, UK

Dr Issam Malki is senior lecturer in economics at Westminster Business School, London. Issam holds BSc and MSc in Econometrics from the University of Algiers and University of Manchester respectively; and a PhD in Economics from the University of Dundee. He previously held lectureship and teaching positions in various universities such as University of Bath, Sheffield Hallam, Birkbeck College and the University of Surrey. His main teaching and research interest are on statistical and mathematical methods to modelling economic, financial and development related problems. He recently published in the area of energy mix and sustainable development as well as the financial economics of energy market. His current research projects in addition to theoretical and applied econometrics include trends and convergence in international energy markets, stock market energy mix and the long run relationship between energy prices and stock market performance.



Prof. Leila MOKHNACHE

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Prof Leila Mokhnache was born in the Aures mountains of Algeria. She received the Diplôme de Magister in Electrical Engineering/power systems from the University of Batna, Algeria, in 1997, and the Doctorat d'état in Electrical Engineering from l'Ecole Nationale Polytechnique (ENP) of Algiers in 2004.

She joined the University of Batna as Professor in Electrical Engineering Department in 1998. She is a member of the scientific council. She chaired more than forty Bachelor projects and about twenty MSc and Phd theses. She is leading an innovative training project in green energy and smart Grids. Her research interests are focused on modeling and diagnosis of high voltage systems using artificial intelligence. She has published over 115 journal and conference articles. Dr. Mokhnache developed relationships with industry in Algeria such as Sonelgaz and Sonatrach and many of their auxiliary companies such as SPE, SKMK, GRTE, MEI, SKTM and DMB, the prestigious compagny of gaz at Hassi R'mel and the research labs of Sonatrach at Boumerdes.

She participated in the inaugural Techwomen Program launched by president Obama in 2011 which was held in the Silicon Valley. She received many awards including the University Award of best researcher in 2013 and was in the 5 top most cited by SCOPUS in her university in 2015.



Prof. Nouar TABET

University of Sharjah, Sharjah, UAE

Nouar Tabet is the Dean of the College of Sciences, University of Sharjah, UAE. He received his PhD in Materials Sciences from University of Orsay Paris XI, France. Before joining his current position, he served as Chief Scientist at Qatar Environment and Energy Research Institute (QEERI), Leader of the PV research Program, Professor at King Fahd University of Petroleum and Minerals (KFUPM), leader of the Surface Science Group, member of the Board of Directors of the Center of Research Excellence in Nanotechnology (CENT) at KFUPM, and in many academic positions including Rector of the university of Constantine, Vice Chancellor for research and graduate studies, and President of the Council of the Universities of Eastern Province of Algeria. He is recipient of Al-Marai Prize for Innovation in Physics, 2004, and the "Research Excellence Award" of KFUPM. He published more than 110 journals papers, 3 US patents and authored a book on "Nanotechnology and its applications" (Arabic, 2013). He supervised 15 Master and PhD theses. He co-chaired the "11th Beam Injection Assessment of Microstructure in Semiconductors (BIAMS) International Workshop 2012 and the "First Sharjah International Conference on Nanotechnology and its Applications", Sharjah, 2007. He was visiting scientist at various research institutions including Advanced Light Source (ALS), Berkeley National Laboratory, USA, and Institut de Science et Génie des Matériaux, Odeillo, CNRS / IMP Font Romeu, France.