



## Research Staff

### **Yehia A. Bahei-El-Din; PhD Professor of Structural Engineering**

#### Areas of Interest

- Multiscale modelling of composite systems including progression of damage, and the Mechanics of multifunctional composites and nanocomposites for health monitoring and energy harvesting.
- Principal investigator of major research grants funded by the European Commission and the Science and Technology Development Fund for development of sandwich structures for wind turbine blades.
- Senior investigator in International Institute on Multifunctional Materials for Energy Conversion, sponsored by US National Science Foundation, consortium leader is Texas A&M University.
- P.I. and co-P.I. of many research projects sponsored by NSF and NASA in the USA, and the Academy for Scientific Research and Technology in Egypt.

### **Iman El Mahallawi; PhD Ceng Csci MIMMM Professor of Materials and Metallurgical Engineering**

#### Areas of Interest

Professor Iman El-Mahallawi is the Director of the Center of Renewable Energy at the British University in Egypt. She received her PhD from Leeds University in 1987. She has supervised more than 60 students' graduation projects, 75 M.Sc. theses and Ph.D. degrees in different fields of design, development, processing, manufacturing, testing, characterization, applications, environmental impact, and recycling of engineering materials, and has examined more than 100 students for master and doctorate degrees in different Egyptian universities. Prof. ElMahallawi is a member of the Institute of Materials, U.K, with titles CEng and CSci. Different fields of design, development, processing, manufacturing, testing, characterization, applications, environmental impact, and recycling of engineering materials.

#### Academic Publications

- 56 publications in peer-reviewed international journals and conferences.
- 45 PhD and MSc.

### **Ahmed El-Baz; PhD Professor of Mechanical Engineering.**

#### Areas of Interest

Prof. Ahmed El-Baz is a Professor in the Department of Mechanical Engineering at the British University in Egypt. He has joined the University of Manchester Institute of Science and Technology (UMIST) as a PhD student and worked with one of the key scientists in turbulent flow modelling, Brian Launder from 1987 to 1992. Having obtained his PhD he



joined Ain Shams University in 1992 as a Lecturer. He stayed at Ain Shams University till 2013 when he joined the British University in Egypt as an Associate Professor. He was promoted to be full Professor in 2015. He is working in the field of thermo-fluid engineering and wind energy conversion systems.

#### Academic Publications

- 40 publications in peer-reviewed international journals and conferences.
- 30 PhD and MSc.

### **Ahmed Abdelazim; PhD Professor of Mechanical Engineering.**

#### Areas of Interest

Prof. Ahmed Abdel-Azim is an Associate Professor in the Department of Mechanical Engineering at the British University in Egypt since August 2009. Dr. Ahmed on business leave since 2009 from Shoubra Faculty of Engineering. Prior to that, he was a Part-time faculty/research assistant at Wayne State University – Detroit, MI, USA. Dr. Ahmed has a good background in the field of consulting and managing USAID projects in Egypt for over twelve years. Also, he registered as a professional trainer in different organizations. His research is focusing on two main streams; Internal combustion engines and solar thermal energy applications.

#### Academic Publications

- 30 publications in peer-reviewed international journals and conferences.
- 20 PhD and MSc.

### **Amr Abdel-Kader; PhD of Mechanical Engineering.**

#### Areas of Interest

joined BUE in 2012 after working as a consultant in the field of Industrial Automation for 20 years. Main activities were focused on developing and implementing tools for optimizing the performance of process control systems. The main achievements were in the design and optimization of water treatment units. During the period 2005-2012, Dr. Amr was serving as the technical director of the Arab Organization for Industrialization (AOI), which is one of the biggest industrial entities in Egypt and the Middle East. One of my main accomplishments during this period was the development and direction of an ambitious plan for AOI in the field of renewable energies that include solar and wind energy as well as water desalination units.

### **Tarek Hatem; PhD of Mechanical Engineering.**

#### Areas of Interest

Dr. Tarek Hatem is a lecturer in the Department of Mechanical Engineering at the British University in Egypt since August 2011 and a visiting assistant professor at Max-Planck Institute. Prior to that, he was a visiting assistant professor at Northwestern University and



a research associate at North Carolina State University where he received his PhD in Mechanical Engineering in 2009, and an MSc in Materials Science in 2008. Prior to that, he assumed several roles in industry and academia, and received both a BSc and an MSc in Aerospace Engineering from Cairo University. He is an organizer of a well responded conferences and symposiums that include; the International Conference on Industry-Academia Collaboration; ASME-IMECE “Materials for Energy Applications”. Amongst recent awards, he received scholarships from the British Council, DAAD, EC-JRC, NSF and DOE.

Engy Sami; MSc in Renewable Energy Engineering, Electrical Engineering, Research Assistant.