

BIOGRAPHY



Dr. Anthony Guiseppi-Elie is Professor of Chemical and Biomolecular Engineering, Professor of Bioengineering, and Professor of Electrical and Computer Engineering at Clemson University where he directs the Center for Bioelectronics, Biosensors and Biochips (C3B). He is Founder, President and Scientific Director of ABTECH Scientific, Inc., a near-patient biomedical diagnostics company. He holds a Sc.D. in Materials Science and Engineering from MIT, a M.Sc. in Chemical Engineering from the University of Manchester Institute of Science and Technology (UMIST) and a B.Sc. (First Class Honors) with majors in Analytical Chemistry, Biochemistry and Applied Chemistry from the University of the West Indies (UWI). He has spent 15 years in intrapreneurial and entrepreneurial

industrial research and development before becoming a full Professor of Chemical and Life Science Engineering (1998) and Professor of Emergency Medicine (2000) at Virginia Commonwealth University. In 2006, he joined Clemson University as Dow Chemical Professor of Chemical and Biomolecular Engineering.

Dr. Guiseppi's research interests are in engineered bioanalytical microsystems in the service of human health and medicine. His specific areas of scholarship are: bioelectrochemistry and bioelectronic devices, implantable bioactive hydrogels for the healing of chronic wounds, *in vivo* biosensors for the management of trauma-induced hemorrhage, and DNA biochips for biomedical diagnostics and prognostics. Dr. Guiseppi-Elie has published over 145 archival scientific papers (3894 citations, h-index = 32), 31 book or proceedings chapters, holds 8 US and foreign patents, and has given in excess of 200 invited lectures/colloquia. Dr. Guiseppi has been a principal investigator on over \$20,000,000 funding of sponsored programs, gifts, and contracts including a recent \$3,280,000 award from the US Department of Defense.

Dr. Guiseppi is Editor-in-Chief of *Bioengineering*, an Associate Editor of *Biomedical Microdevices* and member of the editorial boards of *The Journal of Bioactive and Compatible Polymers*, *NanoBiotechnology*, and *Applied Biochemistry and Biotechnology*. He has been a Guest Editor for *IEEE Journal of Biomedical and Health Informatics*. He is a frequent reviewer for NIH, NSF and the DoD as well as an international reviewer for Science Foundation Ireland (SF), the Swiss National Science Foundation (SNF), the National Research Foundation (NRF) of South Africa, the Biomedical Research Council (A*STAR) of Singapore and the Natural Sciences and Engineering Research Council of Canada (NSERC). He has lead and co-organized 30 national and international scientific workshops, symposia and conferences including the annual International Workshop on Functional Bioelectronics. Most recently he served as the Congress Chair of the 15th IUPAC International Symposium on MacroMolecular Complexes (MMC-15:2013). He is a member of the External Advisory Board of NanoSAFE at WVU and the Center for Functional Nanoscale Materials at Clark Atlanta University. He serves on the International Advisory Boards of conferences including the International Symposium on Macro- and Supramolecular Architectures and Materials (MAM), IUPAC-MMC, Macro India, BMES and AIMBE.

Prof. Guiseppi-Elie was named to the Fulbright Specialist Roster (2014-2019) and was an IEEE-EMBS Distinguished Lecturer (2012-2013). In 1999, Dr. Guiseppi was the recipient of the SEAM Award from the Polymer Research Institute at Polytechnic University for his work on "...bio-technical properties and applications of electroactive polymers". He is a recipient of the 2003 "Pioneers in Biomedical Engineering" Lecture Award from Purdue University, a 2004 lecturer in the MIT Program in Polymer Science and Technology, a recipient of the 2013 Distinguished AVIS Professorship in Pharmaceutical Sciences at the University of Tennessee Health Science Center (UTHSC) and the 2014 recipient of the Visiting Distinguished Professorship in industrial bioelectronics at L'Ecole de Mines d'Alès, France. Dr. Guiseppi is a Fellow of the American Institute of medical and Biological Engineering (FAIMBE-2006), a Fellow of the Royal Society of Chemistry (FRSC-2014), a senior member of IEEE, a lifetime Member of AIChE and holds memberships in AAAS, ACS, MRS and BMES. At Clemson University Prof. Guiseppi teaches engineering materials, biological transport phenomena, biomolecular engineering, biosensors and bioelectronics, and nanobiotechnology.