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Anthony Guiseppi-Elie is Professor of Chemical and Biomolecular Engineering, Professor of Bioengineering, Professor of Electrical and Computer Engineering and Director of the Center for Bioelectronics, Biosensors and Biochips at Clemson University. He is Founder and Scientific Director of ABTECH Scientific, Inc., a near-patient biomedical diagnostics company located in the Biotechnology Research Park, Richmond, Virginia. He holds the Sc.D. in materials science and engineering from MIT, the M.Sc. in chemical engineering from the University of Manchester Institute of Science and Technology (UMIST) and the B.Sc. (First Class Honors) with majors in Analytical and Applied Chemistry from the University of the West Indies (UWI). Tony has spent 15 years in intrapreneurial and entrepreneurial industrial research and product development before becoming a full professor of Chemical and Life Science Engineering and of Emergency Medicine at VCU/MCV in 1998. In 2006, he joined Clemson as the Dow Chemical Professor. His research interests are in **engineered bioresponsive systems in the service of human health and medicine** (136 papers, 3719 citations, h-index = 32). He was the 2014 Visiting Distinguished Professor of Industrial Bioelectronics at l'Ecole des mines d'Alès, the 2013 Avis Professor in Pharmaceuticals at the University of Tennessee Health Sciences Center, a 2012-2013 IEEE-EMBS Distinguished Lecturer, a 2012 Microsystems Distinguished Lecturer at the University of Maryland, a recipient of the 2003 "Pioneers in Biomedical Engineering" Lecture Award from Purdue University and an Invited Lecturer in the MIT Program in Polymer Science and Technology. Tony is Editor-in-Chief of *Bioengineering*, and Associate Editor of *Biomedical Microdevices*. He is an AIMBE Fellow, a Fellow of the Royal Society of Chemistry, a Sr. member of IEEE, a lifetime member of AIChE and hold memberships in AAAS, ACS, MRS and BMES. At Clemson Tony teaches engineering materials, biological transport phenomena, biomolecular engineering, biosensors and bioelectronics, and nanobiotechnology.