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Anthony Guiseppi-Elie is the Dow Chemical Professor of Chemical and Biomolecular Engineering, Professor of Bioengineering and Director of the Center for Bioelectronics, Biosensors and Biochips at Clemson University. He is also President and Scientific Director of ABTECH Scientific, Inc., a near-patient biomedical diagnostics company located in the Biotechnology Research Park, Richmond, Virginia. He holds the Doctor of Science degree in materials science and engineering from MIT, the Master of Science degree in chemical engineering from the University of Manchester Institute of Science and Technology (UMIST) and the Bachelor of Science degree (First Class Honors) with majors in Analytical Chemistry, Biochemistry and Applied Chemistry from the University of the West Indies (UWI). Tony has spent 15 years in intrapreneurial and entrepreneurial industrial research and development with such companies as W. R. Grace and Co., Molecular Electronics Corporation, Ohmicron Corporation, and ABTECH Scientific. Tony was a Visiting Scientist ('95-'96) in Biomedical Engineering in the School of Medicine at Johns Hopkins University before becoming Professor of Chemical and Life Science Engineering and Professor of Emergency Medicine at Virginia Commonwealth University in 1998. Tony holds Distinguished Professorships at the University of the West Indies and the University of Western Cape and has been an Adjunct Professor of Bioengineering at Cornell University and of Materials Science at Penn State University. His research interests are in **engineered bioanalytical systems in the service of human health and medicine**. Amongst his interests are: bioelectrochemistry and bioelectronic devices, implantable bioactive hydrogels, *in vivo* biosensors for trauma management, and DNA biochips for biomedical diagnostics and prognostics. Prof. Guiseppi is a member of the editorial boards of the *Journal of Bioactive and Compatible Polymers*, *NanoBiotechnology* and *Your World* and was recently an inaugural member of the NIH NIBIB Study Section on Biomaterials and Biointerfaces. Tony has published ca. 110 technical papers, 31 book or proceedings chapters and holds 8 patents. Tony was the recipient of the 1999 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 lecturer in the MIT Program in Polymer Science and Technology, is a Fellow of the American Institute for Medical and Biological Engineering (FAIMBE), a senior member of IEEE, a lifetime Member of AIChE and holds memberships in ACS, MRS and BMES. At Clemson University Prof. Guiseppi teaches engineering materials, biomolecular engineering, biosensors and bioelectronics, and nanobiotechnology.