


PUBLICATIONS LIST

JOURNAL ARTICLES (Peer Reviewed)

2011

1. Kazuhiko Ishihara and **Anthony Guiseppi-Elie** "Molecularly engineered p(HEMA)-based hydrogels possessing polyethyleneglycol and phosphorylcholine: Comparative hydration, protein adsorption and cytocompatibility" *Biomaterials* (2011), (in preparation).
2. Adilah Guiseppi-Wilson and **Anthony Guiseppi-Elie** "Design Considerations in the Use of Interdigitated Microsensor Electrode Arrays (IMEs) for Voltammetric Characterization of Biomimetic Hydrogels" *Biomedical Microdevices: BioMEMS and Biomedical NanoTechnology* (2011) (under review). (IF: 2.92)
3. Liju Yang, Adilah Guiseppi-Wilson, **Anthony Guiseppi-Elie** "Design Considerations in the Use of Interdigitated Microsensor Electrode Arrays (IMEs) for Impedimetric Characterization of Biomimetic Hydrogels" *Biomedical Microdevices* (2011) (in press). (IF: 2.92)
4. **Anthony Guiseppi-Elie** "An Implantable Biochip to Influence Patient Outcomes Following Trauma-induced Hemorrhage" *Journal Analytical and Bioanalytical Chemistry* (2011) 399(1), 403-419. [doi/10.1007/s00216-010-4271-x](https://doi.org/10.1007/s00216-010-4271-x) (IF: 3.8)
5. **Anthony Guiseppi-Elie**, Lauren Koch, Stephen H. Finley and Gary E. Wnek "The Effect of Temperature on the Impedimetric Response of Bioreceptor Hosting Hydrogels" *Biosensors and Bioelectronics* (2011) 26(5) 2275-2280. [doi:10.1016/j.bios.2010.09.050](https://doi.org/10.1016/j.bios.2010.09.050) (IF: 5.10)

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6. Christian Kotanen and **Anthony Guiseppi-Elie** "Development of an implantable biosensor system for physiological status monitoring during long duration space flights" *Gravitational and Space Biology* (2010), 23(2) 55-63. 
7. Gusphyl Justin and **Anthony Guiseppi-Elie***, "An Electroconductive Blend of p(HEMA-co-PEGMA-co-HMMA-co-SPMA) Hydrogels and p(Py-co-PyBA): In Vitro Biocompatibility" *Journal of Bioactive and Compatible Polymers* (2010), 25(2) 121-140. [doi:10.1177/0883911509350660](https://doi.org/10.1177/0883911509350660) (IF=0.93)
8. **Anthony Guiseppi-Elie** "Electroconductive Hydrogels: Synthesis, Characterization and Biomedical Applications" *Biomaterials*, (2010) 31(10) 2701-2716. [doi:10.1016/j.biomaterials.2009.12.052](https://doi.org/10.1016/j.biomaterials.2009.12.052) (IF: 3.8)
9. **Anthony Guiseppi-Elie**, Abdur Rub Abdur Rahman and Nikhil K. Shukla "SAM-modified Microdisc Electrode Arrays (MDEAs) With Functionalized Carbon Nanotubes" *Electrochimica Acta* (2010) 55(14), 4247-4255 [doi:10.1016/j.electacta.2008.12.043](https://doi.org/10.1016/j.electacta.2008.12.043) (IF=2.85)

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10. Abdur Rub Abdur Rahman, Gusphyl Justin, Adilah Guiseppi-Wilson and **Anthony Guiseppi-Elie*** "Fabrication and Packaging of a Dual Sensing Electrochemical Biotransducer for Glucose and Lactate Useful in Intramuscular Physiologic Status

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11. Gusphyl Justin and **Anthony Guiseppi-Elie***, "Characterization of Electroconductive Blends of p(HEMA-co-PEGMA-co-HMMA-co-SPMA) Hydrogels and p(Py-co-PyBA)" *Biomacromolecules* (2009) 10(9):2539-2549. [doi:10.1021/bm900486d](https://doi.org/10.1021/bm900486d) (IF=4.15)
 12. Ali Ozgur Boztas and **Anthony Guiseppi-Elie*** "Immobilization and Release of the Redox Mediator Ferrocene Monocarboxylic Acid from within Cross-linked p(HEMA-co-PEGMA-co-HMMA) Hydrogels" *Biomacromolecules* (2009) 10(8):2135-2143. [doi:10.1021/bm900299b](https://doi.org/10.1021/bm900299b) (IF=4.15)
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 19. Abdur Rub Abdur Rahman, Gusphyl Justin and Anthony Guiseppi-Elie "Towards an Implantable Biochip for Glucose and Lactate Monitoring using Micro-Disc Electrode Arrays (MDEAs)" *Biomedical Microdevices: BioMEMS and Biomedical NanoTechnology* (2009) 11:1, 75. <http://dx.doi.org/10.1007/s10544-008-9211-6> (IF=2.92)
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24. Kellie J. Archer, Catherine I. Dumur, G. Scott Taylor, Michael D. Chaplin, **Anthony Guiseppi-Elie**, Geraldine Grant, Andrea Ferreira-Gonzalez, Carleton Garrett "Application of a correlation correction factor in a microarray cross-platform reproducibility study" *BMC Bioinformatics* 2007, 8:447 (15th Nov. 2007). [doi:10.1186/1471-2105-8-447](https://doi.org/10.1186/1471-2105-8-447) (IF=3.62)

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42. *Contributed Paper: Abdur Rub Abdur Rahman, Gusphyl A. Justin and Anthony Guiseppi-Elie "Electrochemical Characterization of Implantable Biochips for Biosensing Application" **Engineering Microfabricated Biodevices** Annual Meeting of the Institute of Biological Engineering (IBE) Sheraton Hotel, Chapel Hill, North Carolina. March 6-9, 2008.*
43. *Contributed Paper: Gusphyl A. Justin, Abdur Rub Abdur Rahman and Anthony Guiseppi-Elie "Bioactive Hydrogels for Implantable Biosensors" **Engineering Microfabricated Biodevices** Annual Meeting of the Institute of Biological Engineering (IBE) Sheraton Hotel, Chapel Hill, North Carolina. March 6-9, 2008.*
44. *Invited Lecture: Anthony Guiseppi-Elie, "Immobilized Carbon Nanotubes for Amperometric Biosensors" Biology-Inspired Sensors Annual Meeting of the Institute of Biological Engineering (IBE) Sheraton Hotel, Chapel Hill, North Carolina. March 6-9, 2008.*
45. *Invited Lecture: Anthony Guiseppi-Elie, "Engineering Implantable Biochips for Biomedical Monitoring" **Engineering Microfabricated Biodevices**, Annual Meeting of the Institute of Biological Engineering (IBE) Sheraton Hotel, Chapel Hill, North Carolina. March 6-9, 2008.*
46. *IBN BioNanoMaterials Award Lecture Anthony Guiseppi-Elie, "Biomimetic Electroconductive Hydrogels: Biologically Inspired Co-networks of Polypyrrole and Poly(hydroxyethyl methacrylate) containing poly (ethylene glycol) and phosphorylcholine for Implantable Biochips" Institute of Bioengineering and Nanotechnology (IBN), 31 Biopolis Way, Singapore 138669. December 12th, 2007.*
47. *Invited Paper: Stephen Finley, Walter Torres and Anthony Guiseppi-Elie "Biomimetic Electroconductive Hydrogels: Biologically Inspired Co-networks of Polypyrrole and Poly(hydroxyethyl methacrylate) containing poly (ethylene glycol) and phosphorylcholine" Symposium QQ Fall MRS Fall 2007 Meeting, Boston, MA. November 26-30, 2007.*
48. *Contributed Paper: J.-Y. Shin, D. Debnath, W.-S. Lee, C. R. Kim, A. Guiseppi-Elie, and K. E. Geckeler, **Synthesis and Characterization of Single-Walled Carbon Nanotube-Polypyrrole Nanocomposites with a High Electrical Conductivity**. NAIST-GIST Joint Symposium on Advanced Materials, Gwangju, South Korea. November 22-23. 2007.*
49. *Contributed Paper: Gusphyl Justin, Kurt E. Geckeler and Anthony Guiseppi-Elie. **Bioactive and Biomimetic Hydrogel Membranes for Implantable Biosensors and Deep Brain Stimulating Electrodes**. Nanotechnology in Biology and Medicine, Cannon Research Center Auditorium Carolinas Medical Center, 1542 Garden Terrace Drive Charlotte, North Carolina 28203, USA. November 5th, 2007.*

50. *Contributed Paper:* Bryan G. Splawn and Anthony Guiseppi-Elie, **Detecting DNA Hybridization Within Microflows Using an Interdigitated Microsensor Electrode and Ferrocene as an Electroactive Ligand.** The 2007 South East Regional Meeting of the American Chemical Society (SERMACS 2007), Greenville, South Carolina, USA. October 24-27, 2007.
51. *Invited Lecture:* Anthony Guiseppi-Elie, **Development of an Intramuscular Lactate and Glucose Biochip for Physiologic Status Monitoring During Hemorrhage and Shock.** TATRC'S INTEGRATED RESEARCH TEAM (IRT) MEETING "Nanotechnology Solutions for the Development of Long-term Implantable Devices" Institute for Molecular Medicine, University of Texas Health Science Center, Houston, Texas, USA. October 23 - 25, 2007.
52. *Contributed Paper:* J.-Y. Shin, D. Debnath, W.-S. Lee, D. Nepal, A. Guiseppi-Elie, and K. E. Geckeler, **Synthesis of Uniformly Shaped Single-Walled Carbon Nanotube-Polypyrrole Nanocomposites.** 3rd International Materials Symposium, Hsinchu, Taiwan. October 21-24, 2007. Book of Abstracts, p. 54.
53. *Invited Lecture:* Anthony Guiseppi-Elie, **Recent Developments in Bio-smart and Responsive Materials For Biosensors.** Emerging Technologies to Enable Quantitative Rapid Tests, Hyatt Islandia Hotel San Diego, California, USA. September 24 - 26, 2007.
54. *Colloquium Address:* Anthony Guiseppi-Elie, **Bioactive and Biomimetic Hydrogel Membranes for Implantable Biosensors and Stimulating Electrodes.** Presented at the Chemistry Colloquium Series, Department of Chemistry, Old Dominion University, Norfolk, Virginia. September 21st, 2007.
55. *Colloquium Address:* Anthony Guiseppi-Elie, **Bioactive and Biomimetic Hydrogel Membranes for Implantable Biosensors and Stimulating Electrodes.** Presented to the Research Staff, "Milliken Research Corporation", Spartanburg, Virginia, USA. September 13th, 2007.
56. *Invited Lecture:* Anthony Guiseppi-Elie, **"Clinical Diagnostics Using Electroconductive Bio-Smart Thin Film Biosensors"** Department of Biomedical Engineering, University of Pittsburgh, Pittsburgh, Pennsylvania, USA. June 28, 2007.
57. *Invited Lecture:* Anthony Guiseppi-Elie, **"On Biomedical Engineering Scholarship and Service: The Academic Entrepreneur's Perspective"** Biomedical Engineering Department, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA. June 27, 2007.
58. *Invited Lecture:* Anthony Guiseppi-Elie **"Technology Transfer: The Academic Entrepreneur's Perspective"** ASME-BED Summer Bioengineering Conference, AIMBE Panel on Technology Transfer, Keystone, Colorado, USA. June 20 - 23, 2007.
59. *Invited Lecture:* Anthony Guiseppi-Elie **"Molecular Diagnostics and Bioanalytics: Research at the Center for Bioelectronics, Biosensors and Biochips (C3B)" South Carolina Bioengineering Summit, Charleston, South Carolina, USA.** June 14-15, 2007.
60. *Invited Lecture:* Anthony Guiseppi-Elie **"Bioactive and Biomimetic Hydrogel Membranes for Implantable Biosensors and Stimulating Electrodes "** ACS-IUPAC Conference on "Macromolecules for a Sustainable, Safe and Healthy World", Brooklyn, New York, USA. June 10 - 13, 2007.

61. *Invited Lecture: Anthony Guiseppi-Elie "Bioactive Hydrogels" National Institute of Science and Technology (NIST), Gaithersburg, Maryland, USA. June 1, 2007.*
62. *Keynote Lecture: Anthony Guiseppi-Elie "Bio-smart Organic Thin Films for Implantable Biosensors" **American Vacuum Society (AVS) Annual Meeting**, Ann Harbor, Michigan. May 9th, 2007.*
63. *Invited Lecture: Walter Torres and Anthony Guiseppi-Elie "Biotechnical Aspects of Conducting Polymers: Biosensors, Biochips and Biocompatibility" **30 Years of Conducting Polymers, American Chemical Society 233rd National Meeting & Exposition**, Chicago, Illinois, USA. March 25-29, 2007. *Polymer Preprints*. Volume 48. Number 1. March 2007. **Paper presented at the ACS meeting held Chicago, IL, 25th-30th March 2007; Washington, D.C., ACS, Division of Polymer Chemistry, 2007, p.5-6, CD-ROM, 012.***
64. *Invited Lecture: Anthony Guiseppi-Elie "Electroconductive Hydrogels for an Implantable Biosensor useful in Trauma Management " **2007 International Workshop on Biomaterials and Nanomaterials**, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea. February 22-23, 2007.*
65. *Invited Lecture: Anthony Guiseppi-Elie "Electroconductive Hydrogels for an Implantable Biosensor useful in Trauma Management" **Biomaterials Colloquium, Korea Institute of Science and Technology (KIST), Seoul, Korea. February 21, 2007.***
66. *Invited Lecture: Anthony Guiseppi-Elie "Research in the Center for bioelectronics, biosensors and Biochips" **Graduate Research Colloquium, Inha University, Incheon, Korea. February 20, 2007.***
67. *Invited Lecture: Anthony Guiseppi-Elie "Nanobiotechnology Research at the Center for Bioelectronics, Biosensors and Biochips (C3B)" **Clemson University AIChE Student Chapter**, Clemson University. November 28th, 2006.*
68. *Invited Lecture: Anthony Guiseppi-Elie "Nanobiotechnology Research at the Center for Bioelectronics, Biosensors and Biochips (C3B)" **US - Ireland R&D Partnership 2 DAY NANOTECHNOLOGY WORKSHOP**, Ramada Hotel, Shaw's Bridge, Belfast , Ireland October, 23 - 24, 2006.*
69. *Invited Lecture: Walter Torres and Anthony Guiseppi-Elie "**Biosensors for Molecular Diagnostics**" October 22, 2006*
70. *Invited Lecture: Jang B. Rampal and Anthony Guiseppi-Elie, "Practical Approaches to Microarrays for Diagnostics" **A "Hands-on" Microarray Workshop**, Sheraton Crystal City, Arlington, Virginia, USA. September 19-21, 2006.*
71. *Invited Lecture: Anthony Guiseppi-Elie, "Practical Approaches to Biosensors for Diagnostics" **A "Hands-on" Microarray Workshop**, Sheraton Crystal City, Arlington, Virginia, USA. September 19-21, 2006.*
72. *Invited Lecture: Anthony Guiseppi-Elie, "**Biosensors: Principles and Contemporary Issues 7th International Symposium on Bio-related Polymers**, 232nd National American Chemical Society Meeting, San Francisco, California, USA. September 10-14, 2006.*
73. *Invited Lecture: Anthony Guiseppi-Elie, "Biomimetic hydrogels for *in vivo* biosensor biocompatibility" **Polymers in Biosensors and Biochips: Diagnostic Tools and Assays***

232nd National American Chemical Society Meeting, San Francisco, California, USA.
September 10-14, 2006.

74. *Invited Lecture: Anthony Guiseppi-Elie "Chemically Modified Carbon Nanotubes for Amperometric Biosensing" 3rd IUPAC International Symposium on Macro- and Supramolecular Architectures and Materials (MAM-06): Practical Nano-Chemistry and Novel Approaches.* Waseda University, Tokyo, Japan. On May 28 – June 1, 2006.
75. *Invited Lecture: Anthony Guiseppi-Elie "An Implantable Biochip for Remote Monitoring of Glucose and Lactate in the Combat Trauma Victim" at the DoD Military Health Research Forum for the Peer Reviewed Medical Research Program (PRMRP),* San Juan, Puerto Rico. May 1-4, 2006.
76. *Invited Poster and Technology Demonstration: **Anthony Guiseppi-Elie** "An Implantable Biochip for Remote Monitoring of Glucose and Lactate in the Combat Trauma Victim" at the DoD Military Health Research Forum for the Peer Reviewed Medical Research Program (PRMRP),* San Juan, Puerto Rico. May 1-4, 2006.
77. *Keynote Lecture: Anthony Guiseppi-Elie, **Biosensor Principles: What are they and how do they work?** The 1st Asia Biosensor and Biochip "Hands-on" Workshop Organized by GENE Co., Ltd. and Gene Tech (Shanghai) Co., Ltd. Beijing and Shanghai, Peoples Republic of China. April 6, 2006.*
78. *Colloquium Address: Anthony Guiseppi-Elie "An Implantable Biochip for Telemetered Monitoring of Glucose and Lactate in the Combat Trauma Victim" Presented at the Physics Colloquium Series, Department of Physics, University of South Florida, Florida. October 7th, 2005.*
79. *Colloquium Address: Anthony Guiseppi-Elie "An Implantable Biochip for Telemetered Monitoring of Glucose and Lactate in the Combat Trauma Victim" Presented at the CBIMMS/CBTE Seminar Series, Pratt School of Engineering, Duke University, Raligh, North Carolina. September 22, 2005.*
80. ***Anthony Guiseppi-Elie** "Molecularly Engineered p(HEMA)-based Hydrogels Possessing Poly(Ethylene Glycol) and Phosphorylcholine For Implant Biocompatibility" Presented at the 27th Annual International Conference of the IEEE Engineering In Medicine and Biology Society (EMBC'05) (12.5.1 Biomaterials and Biological Interfaces I), Conference Center, Shanghai, China. September 1-5, 2005.*
81. ***Sheena Abraham, Sean Brahim, and Anthony Guiseppi-Elie** "Molecularly Engineered Hydrogels for Implant Biocompatibility". Presented at: ATACCC 2005 Conference; Tradewinds Island Grand Resort, St. Pete Beach, Florida. August 15-17, 2005.*
82. ***Sean Brahim, Gopakumar Sethuraman, Sheena Abraham, and Anthony Guiseppi-Elie** "Novel Microdisc Electrode Array (MDEA) Biochip Sensor for Monitoring of Glucose and Lactate". Presented at: ATACCC 2005 Conference, Tradewinds Island Grand Resort, St. Pete Beach, Florida. August 15-17, 2005.*
83. ***Anthony Guiseppi-Elie, Kevin Ward, Sean Brahim, Wayne Barbee, Robert Dieglemann, Sheena Abraham, Daniel Contaifer, Robert Klenke and Peter Hansen** "An Implantable Biochip for Telemetered Monitoring of Glucose and Lactate in the Combat Trauma Victim"*

Presented at: ATACCC 2005 Conference, Tradewinds Island Grand Resort, St. Pete Beach, Florida. August 15-17, 2005.

84. *Expert Panel Presentation: Anthony Guiseppi-Elie "QA and QC Issues in Gene Expression Analysis Using Oligonucleotide Microarrays"* Webex Seminar, Science Info. Friday, May 20th, 2005.
85. *Invited Paper: Anthony Guiseppi-Elie "Bio-inspired Organic Thin Films: Biosensors and Biocompatibility"* 2005 U.S. Army Workshop on Advanced Active Thin Film Materials for the Next Generation of Meso-Micro Scale Army Applications, Hilton Sandestin, Destin, FL. May 10-12, 2005.
86. *Anthony Guiseppi-Elie "Intelligent Electronic NOSE for Physiologic Status via Patient Breath Monitoring Following Trauma"* 2005 U.S. Army Workshop on Advanced Active Thin Film Materials for the Next Generation of Meso-Micro Scale Army Applications, Hilton Sandestin, Destin, FL. May 10-12, 2005.
87. *Keynote Address: Anthony Guiseppi-Elie "What's all the Fuss about Small Stuff"* Presented at the Virginia Space Grant Consortium Annual General Meeting, Hotel, Norfolk, Virginia. Friday, April 1st, 2005.
88. *Colloquium: Anthony Guiseppi-Elie "Molecular Engineering in an Era of Nano and Bio"* Department of Biomolecular Engineering, Baskin School of Engineering, University of California Santa Cruz. Monday, March 21st, 2005.
89. *Colloquium: Anthony Guiseppi-Elie, "Brain Tumor Biochip: Fully Integrated Platform for the Clinical Classification of Primary Brain Tumors"* Biomedical Engineering Seminar, Virginia Commonwealth University, Richmond, VA USA. March 08th, 2005.
90. *Keynote Address: Anthony Guiseppi-Elie "Engineering in an Era of Nano and Bio"* Richmond Joint Engineers Council Annual General Meeting, Jefferson Hotel, Richmond, Virginia. February 24th, 2005.
91. **Anthony Guiseppi-Elie "Brain Tumor Biochip: Fully Integrated Platform for the Clinical Classification of Primary Brain Tumors" VCU School of Engineering Research Retreat. January 2005.**
92. **Anthony Guiseppi-Elie "An Implantable Biochip for Telemetered Monitoring of Glucose and Lactate in the Combat Trauma Victim". Presented at the IEEE Richmond Section Meeting, January 5th, 2006; Hilton Garden Inn, Glen Allen, Virginia.**
93. **Anthony Guiseppi-Elie, Kevin Ward, Sean Brahim, Wayne Barbee, Robert Dieglemann, Sheena Abraham, Daniel Contaifer "An Implantable Biochip for Combat Casualty Care" DoD PRMRP Product Assessment and Commercialization Team. November 8th, 2004.**
94. *Colloquium: Anthony Guiseppi-Elie "Electroconductive Hydrogels: "Bio-smart" Polymers for Implantable Biosensors"* Department of Chemical Engineering, Clemson University, Clemson, SC, USA. October 28th, 2004.
95. Sheena Abraham, Sean Brahim and **Anthony Guiseppi-Elie "Molecularly Engineered Hydrogels for Implant Biocompatibility"** 26th Annual Int. Conference of the IEEE EMBS Track 12.5 : Biomaterials for Tissue Engineering. San Francisco, CA, USA. September 1 - 5th, 2004.

96. Sheena Abraham, Sean Brahim and **Anthony Guiseppi-Elie** "Molecularly Engineered Hydrogels for Implant Biocompatibility 6th International Biorelated Polymers Symposium" 228 ACS National Meeting. Philadelphia, PA, USA. August 22-26th, 2004.
97. **Anthony Guiseppi-Elie** "Microarray Basics" Bioinformatics and Bioengineering Summer Institute, VCU Life Sciences, Virginia Commonwealth University Richmond, VA, USA. August 13 - 15th, 2004.
98. *Invited Paper*: James Landers, Pamela Norris, Godwin Mbagwu and Anthony Guiseppi-Elie "Fully Integrated Biochip System For BioDefense" 2004 Virginia Nanotechnology Showcase: Exploring Research & Commercialization in Nanomanufacturing. Charlottesville, VA, USA. June 22-23, 2004. Arvind K. Srivastava and Anthony Guiseppi-Elie "A Novel Technique for the Impedimetric Measurement of Chemoresistive VOC Sensor" 2004 Virginia Nanotechnology Showcase: Exploring Research & Commercialization in Nanomanufacturing. Charlottesville, VA, USA. June 22-23, 2004. **Anthony Guiseppi-Elie** "Bioelectronic Detection of DNA Hybridization and Development of a Low Density DNA Microarray for Clinical Classification of Brain Tumors" Cambridge Healthtech Institute's Fourth Annual Macroresults for Microarrays: An Array of Possibilities World Trade Center. Boston, MA, USA. May 13-14, 2004. *Colloquium*: **Anthony Guiseppi-Elie** "Fundamental Studies of A Cell-based Neurotoxicity Biosensor Using Neuron to Electrode Surface Attachment (NESA)" Graduate Research Engineering Seminar Series, VCU School of Engineering, Virginia Commonwealth University, Richmond, VA, USA. April 19th, 2004.
102. Sean Brahim, Chenghong Lei, Gary Wnek, Ray Baughman and **Anthony Guiseppi-Elie**, "Carbon Nanotube Modified Electrodes for the Bioelectrochemistry of Redox Enzymes" Nanofiber Syposium, Virginia Biotechnology Research Park, Richmond, VA, USA. April, 16th, 2004.
103. **Anthony Guiseppi-Elie** Surface Properties of Gold: Sorption/Desorption and Activation/Deactivation Intel Corporation, Santa Clara, CA, USA. March 30th, 2004.
104. *Colloquium*: **Anthony Guiseppi-Elie** "Preclinical Investigation of the Mechanism of Action of Novel Platinum Compounds in Malignant Glioma using Microarray Gene Expression" Neuro-Oncology Forum, Virginia Commonwealth University, Richmond, VA USA. March 19th, 2004.
105. *Invited Paper*: Anthony Guiseppi-Elie "Feasibility Studies in Development of a Temporary Implantable Lactate Sensor Biochip for Monitoring During Hemorrhage."
106. *Colloquium*: **Anthony Guiseppi-Elie** "Modification of Gold Electrodes for Improved Neuron-to-Electrode Surface Attachment (NESA)" Laboratory for Physical Sciences, University of Maryland, College Park, Maryland, USA. March 3rd, 2004.
107. Sean Brahim, Ehard Bieberich and Anthony Guiseppi-Elie ""Bio-smart" Materials for Implantable Biosensors". World Congress on Medical Physics and Biomedical Engineering, 24 - 29 August 2003, Sydney Convention & Exhibition Centre, Sydney, Australia. Anthony Guiseppi-Elie, Sean Brahim, Sheena Abraham, Gymama Slaughter, Felix Miranda, Noulie Theofylaktos, Rainee Simons, Robert Diegelmann, Luciana Torres, R. Wayne Barbee and Kevin Ward "Feasibility Studies in Development of a Temporary Implantable Lactate Biochip Sensor for Monitoring During Hemorrhage" Sean Brahim and Anthony Guiseppi-Elie (2003) "Characterization of electroconductive ppy-p(HEMA) composite hydrogels for

sensing applications". Proceedings of the Virginia Academy of Sciences, University of Virginia, Charlottesville, Virginia. May 29th, 2003. *Invited Speaker* Anthony Guiseppi-Elie "Bio-smart Materials: Co-joined Molecular Recognition and Signal Transduction in Biosensors and Biochips". VIIIth International Seminar on the Technology of Inherently Conductive Polymers Niagara-on-the-Lake, Ontario, Canada June 18 - 20, 2001. *Invited Speaker* Anthony Guiseppi-Elie "Nano-Bio: Bioelectronics Using Carbon Nanotube and Colloidal Gold Nanoparticles", Center for Innovative Technology, Herndon, Virginia. June 05, 2001. Anthony Guiseppi-Elie *Invited Speaker*. Bioactive Electroconductive Hydrogel Polymers: Combining Molecular Recognition and Electrical Transduction" 4th International Symposium on Frontiers in Biomedical Polymers Williamsburg, Virginia, USA May 16 - 19, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Bio-smart Materials: Co-joined Molecular Recognition and Signal Transduction in Bioelectrochemistry, Biosensors and Biochips" RCMI (Research Center for Minority Institutions) 2001 Spring Symposium Clark Atlanta University. April 26 - 27, 2001. Rosalyn Hobson and Anthony Guiseppi-Elie "The Applicability of Temperature Correction to Chemoresistive Sensors in an e-NOSE-ANN System". Conference on Modeling and Simulation of Microsystems: MSM 2001 Conference. Hilton Head, South Carolina. March 19-21, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Bioelectronic Detection of DNA Hybridization: Toward Point of Concern DNA Diagnostics". Research and Development Co-operation for Genesensors and UFT, University of Bremen, Bremen, Germany. March 15, 2001 Anthony Guiseppi-Elie *Plenary Speaker*. "Bio-smart Materials: Co-joined Molecular Recognition and Signal Transduction in Bioelectrochemistry, Biosensors and Biochips" IV International Congress on Chemistry (ICC) & The XIII Caribbean Conference on Chemistry and Chemical Engineering (CCCCEng) Palacio de Convenciones de La Habana, Havana, Cuba. April 16 - 20, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Bioelectronic Detection of DNA Hybridization: Toward Point of Concern DNA Diagnostics". BioChips 2001 Polytechnic University, Brooklyn, NY, March 12-13, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Inherently Conductive Polymer-Biopolymer Complexes for Biosensors and Controlled Release". Departments of Chemistry and Chemical Engineering University of the West Indies, St. Augustine, Republic of Trinidad and Tobago. March 8, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Bioelectronic Detection of DNA Hybridization: Toward Point of Concern DNA Diagnostics". Motorola Clinical MicroSensors, Pasadena, California. March 2, 2001. Anthony Guiseppi-Elie *Invited Speaker*. "Inherently Conductive Polymer-Biopolymer Complexes for Biosensors and Controlled Release". Hughes Research Laboratories (HRL), Malibu, California. March 1, 2001.

121. Anthony Guiseppi-Elie *Invited Speaker*. "Inherently Conductive Polymer-Biopolymer Complexes for Biosensors and Controlled Release". Medtronic Heart and valve Division, Santa Ana, California February 28, 2001.

122. Anthony Guiseppi-Elie, Chenghong Lei and Ray H. Baughman *Invited Speaker* "Direct Electron Transfer to Glucose Oxidase Using Carbon Nanotube Electrodes" The fifth workshop on multifunctional polymers and smart polymer systems: Technological Applications. The Intelligent Polymer Research Institute, University of Wollongong, Australia. January 4th - 6th, 2001.

123. Anthony Guiseppi-Elie *Invited Speaker*. "GenoSensors Using Inherently Conductive Polymer-DNA Complexes". SEAM 2000, Polytechnic University, New York. December 2nd, 2000.
124. Anthony Guiseppi-Elie *Colloquium Speaker*. "Bioactive Electroconductive Polymers: Combining Molecular Recognition and Electrical Transduction". Department of Chemical Engineering Seminar Series, Clemson University, South Carolina. October 12th, 2000.
125. Anthony Guiseppi-Elie, Rosalyn Hobson, Rob Pearson, and Richard M. Costanzo. "A VOC Responsive e-NOSE", Invensys Corporation, Richmond Virginia. August 22, 2000.
126. Anthony Guiseppi-Elie *Plenary Address*. "Biochips: Opportunities for Curriculum Enhancement at 2-yr and 4-yr Institutions" Sixth Annual Conference and Workshops on Advanced Technological Education in Semiconductor Manufacturing (ATESM 2000), Orlando, Florida. August 3rd, 2000.
127. Anthony Guiseppi-Elie *Invited Address*. "On-board Detection Strategies for Lab-on-Chip" Mallinckrodt Baker, New Jersey. July 21st, 2000.
128. Anthony Guiseppi-Elie *Invited Paper*. "Bioactive Electroconductive Polymers: Combining Molecular Recognition and Electrical Transduction" *Symposium S: Electrically Active Polymers*. Proceedings of the Spring 2000 MRS Meeting, San Francisco, California. April 24 - 27, 2000.
129. David Colby, Shahab Siddiqui, Catherine Branch, Jesus Ortega, Tuan Hoang, Samuel Anin, Lisa Moroni⁺, Patrick Hebert⁺, D. Robley Wood, Oliver Bögler, Anthony Guiseppi-Elie, "A Gene Chip for Expression Profiling in Brain Tumors". 13th Annual Meeting: Mid-Atlantic Bio-Engineering Consortium, University of Delaware. April 7th, 2000.
130. Kenneth Tuan Hoang, Chris T. Hang, Kerriane Cullen and Anthony Guiseppi-Elie "Colloidal Gold Nanoparticles in DNA Diagnostics" (1st Place Paper). 13th Annual Meeting: Mid-Atlantic Bio-Engineering Consortium, University of Delaware. April 7th, 2000.
131. Samuel K. Anin, Catherine Ellen, Gary E. Wnek and Anthony Guiseppi-Elie "Chemoresistive Response of Carbon Nanotube-Polymer Composites to VOCs". 13th Annual Meeting: Mid-Atlantic Bio-Engineering Consortium, University of Delaware. April 7th, 2000.
132. Anthony Guiseppi-Elie *Invited Paper*. "Bioactive Electroconductive Polymers: Combining Molecular Recognition and Electrical Transduction Spring MRS Meeting, San Francisco, California" *Symposium on Electrified Polymer/Solution Interfaces* 219th ACS National Meeting, San Francisco, California Colloid and Surface Science Division. March 26-30, 2000.
133. Anthony Guiseppi-Elie *Invited Address*. "Silicon's Intersection with Biology: Bioelectronics, Biosensors and Biochips" Department of Pharmaceutics, Virginia Commonwealth University. March 14th, 2000.
134. Anthony Guiseppi-Elie *Invited Address*. "Silicon's Intersection with Biology: Bioelectronics, Biosensors and Biochips" University of Virginia Microelectronics Institute, University of Virginia. Friday, March 3rd, 2000.
135. David Colby, Catherine Branch, Shahab Siddiqui, Tuan Hoang, Samuel Anin, Jesus Ortega, Lisa Mironi, Patrick Hebert, Anthony Guiseppi-Elie and Oliver Bögler A

Centralized Biochip Facility at VCU/MCV. Engineering the Future of Medicine Seminar Series, Virginia Commonwealth University, Richmond, Virginia. March 2, 2000

136. Anthony Guiseppi-Elie and Oliver Böglér (*Invited Paper*) "Biochips:Background" *Symposium on Merging Microtechnologies: The Biochip and the Microchip* J. Sargeant Reynolds Community College, Richmond, Virginia. January 21, 2000.
137. Anthony Guiseppi-Elie *Colloquium Speaker*. "Two-dimensional Nanocomposites of Polyethylene and Polyaniline at Au (111)" Department of Physics, College of Humanities and Science, Virginia Commonwealth University, Richmond, Virginia, USA. October 1, 1999.
138. Anthony Guiseppi-Elie (*Invited Paper*) "Biotechnical Applications of Electroconductive Polymers: Biosensors and Biochips" 6th International Seminar on the Technology of Inherently Conductive Polymers, Ontario, Canada: September 26th - 29th, 1999.
139. Anthony Guiseppi-Elie *Invited Speaker*. "Conductive Polymer Biosensors" Department of Chemistry and Chemical Engineering, Polytechnic University, Brooklyn, New York. USA. June 16th, 1999.
140. Anthony Guiseppi-Elie (*Invited Paper*) "Biotechnical Applications of Electroconductive Polymers" Gordon Research Conference on "Organic Thin Films". Salve Regina University, Newport, Rhode Island, USA. June 15th, 1999.
141. Anthony Guiseppi-Elie (*Invited Speaker*) "Biotechnical Applications of Electroconductive Polymers" Xerox Research Center of Canada (XRCC), Mississauga, Ontario, Canada: June 4th, 1999.
142. Anthony Guiseppi-Elie (*Invited Speaker*) "Bioelectronics Biosensors and Biochips: A Collaborative Research Center of Excellence at VCU". Department of Chemistry and Chemical Engineering, Polytechnic University, Brooklyn, NY. June 2, 1999.
143. Anthony Guiseppi-Elie (*Invited Speaker*) "Bioelectronics Biosensors and Biochips: A Collaborative Research Center of Excellence at VCU". Massey Cancer Center, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond Virginia, USA. April 7th, 1999.
144. Ann M. Wilson, Emmanuel Iwuoha, Dyer Narinesingh, Anthony Guiseppi-Elie "Divalent Cation Electrorrelease from Electroconductive Hydrogels" XII Conference on Chemistry and Chemical Engineering; University of the West Indies, St. Augustine: Republic of Trinidad and Tobago; March 28-April 1, 1999.
145. Anthony Guiseppi-Elie (*Invited Speaker*) "Biotechnical Applications of Electroconductive Polymers: Biosensors, Biochips and Controlled Release Devices" 5th International Seminar on the Technology of Inherently Conductive Polymers, Clearwater Beach, Florida: March 1-4th, 1999.
146. Anthony Guiseppi-Elie (*Invited Speaker*) "A Collaborative Research Center of Excellence: Bioelectronics Biosensors and Biochips". Richmond Technology Council, Richmond, Virginia, USA. February 9th, 1999
147. Anthony Guiseppi-Elie (*Invited Speaker*) "NOSE: Natural Olfactory Sensor Emulator", Department of Physiology, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond Virginia, USA. February 4th, 1999.

148. Anthony Guiseppi-Elie(*Invited Paper*) "Biotechnical Applications of Electroconductive Polymers: Electronic Noses, Biosensors, and Controlled Electrorelease Devices", International Symposium on Instrumentation in Agriculture, II SIERGO, EMBRAPA, Sao Carlos, Brazil. November 30th - December 4th, 1998.
149. Anthony Guiseppi-Elie (*Invited Speaker*) "Bioelectronics Biosensors and Biochips: The Good the Bad and the Absolutely Delightful", Chemical Sciences and Technology Division (CST) Colloquium Series, Los Alamos National Laboratory, Los Alamos, NM. November 18th, 1998.
150. Anthony Guiseppi-Elie (*Invited Speaker*) "Bioelectronics Biosensors and Biochips: The Good the Bad and the Absolutely Delightful", Biomedical Engineering Seminar, Biomedical Engineering Program, School of Engineering, Virginia Commonwealth University, Richmond, Virginia. November 10, 1998
151. Anthony Guiseppi-Elie (*Invited Speaker*) "Bioelectronics Biosensors and Biochips: A Collaborative Research Center of Excellence at VCU", Symposium on New Initiatives in the State of Virginia, Annual Convention and Exhibition of the Virginia Biotechnology Association, Richmond, VA. October 21, 1998.
152. Anthony Guiseppi-Elie, Gary E. Wnek, Philippe Lam, Gary C. Tepper, Oliver Bogler, Gary L. Bowlin, John Alexander and Robert J. Mattauch "Probing Biochemical and Biological Phenomena Using Electrical Impedance Techniques: Applications to Biochips" IBC's International Conference on Biochips. San Francisco, California. August 1998.
153. Anthony Guiseppi-Elie (*Invited Speaker*) "NOSE: Natural Olfactory Sensor Emulator", Department of Chemical Engineering, Virginia Tech and State University.
154. Anthony Guiseppi-Elie "Impedimetric Biosensors Using Smart Gels: Disposable Biosensors", Workshop on Bioelectronics, Biosensors and Biochips, Virginia Commonwealth University, Richmond, VA. October 20, 1998.
155. Anthony Guiseppi-Elie "Introduction and Connection Among Bioelectronics, Biosensors and Biochips", Workshop on Bioelectronics, Biosensors and Biochips, Virginia Commonwealth University, Richmond, VA. October 20, 1998.
156. Sheldon P. Wesson, Ann M. Wilson and Anthony Guiseppi-Elie "Impedance Spectroscopy and Inverse Phase Gas Chromatography for Evaluating Probe/Polymer Interactions in Cured Latex Coatings" Proc. Second International Symp. on Acid-Base Interactions: Relevance to Adhesion October 19 - 21, 1998. Newark, NJ.
157. Anthony Guiseppi-Elie "Bioelectronics Biosensors and Biochips: The Good the Bad and the Absolutely Delightful", Third National Biomedical Engineering Careers Symposium, Johns Hopkins University. August 10, 1998.
158. Anthony Guiseppi-Elie "Bioelectronics Biosensors and Biochips: The Good the Bad and the Absolutely Delightful", Symposium on Technology in Medicine, University of Virginia, June 10 1998.
159. Anthony Guiseppi-Elie "Combined Recognition-transduction in Electroconductive Polymer Biosensors" IBC's International Conference on Biosensor Technologies. The Tremont, Boston, Massachusetts. May 14 -15, 1998.

160. **Anthony Guiseppi-Elie** “Biotechnical Applications of Electroconductive Polymers: Biosensors, Electronic Noses and Controlled Electrorrelease Devices” 25th Annual NOBCCHE Conference, Rohm and Haas Macromolecular Symposium '98. Dallas, Texas April 13 - 16, 1998.
161. **Anthony Guiseppi-Elie** “Biotechnical Applications of Electroconductive Polymers” International Seminar on the Technology of Inherently Conductive Polymers, San Diego, CA: March 3-5th, 1998.
162. Anthony Guiseppi-Elie “Biotechnical Applications of Electroconductive Polymers” International Seminar on the Technology of Inherently Conductive Polymers, San Diego, CA: March 3-5th, 1998.
163. Anthony Guiseppi-Elie*, Andrew R. Sujdak and Ann M. Wilson, “Electroconductive Hydrogels: Electrical, Electrochemical and Electrochemical Impedance Properties”. *Symposium J* Electrical, Optical, and Magnetic Properties of Organic Solid-State Materials IV, Molecular Engineering Section, Fall National Meeting, Materials Research Society, Boston, MA. December 1 - 5, 1997.
164. Anthony Guiseppi-Elie*, Ann M. Wilson, Andrew R. Sujdak and Kimberly E. Brown, “Electroconductive Hydrogels: Novel Materials for the Controlled Electrorrelease of Bioactive Peptides” Proceedings of the 214th National ACS Meeting, Polymer Chemistry Division, Las Vegas, Nevada. September 7 - 11, 1997.
165. Anthony Guiseppi-Elie* and Ann M. Wilson “Sensory Devices Based on Conductive Polymers: Chemical, Biological and Gas Sensors” International Seminar on the Technology of Inherently Conductive Polymers, San Diego, CA: March 3-5th, 1997.
166. K. Seshadri, S. V. Atre, D. L. Allara, Y.-T. Tao and A. Guiseppi-Elie “Nanoclusters of Polymethylene at Au(111) Surfaces” ACS Graduate Polymer Research Conference, Blacksburg, VA: June 1996.
167. Anthony Guiseppi-Elie* and Ann M. Wilson, “Chemical and Biological Sensor Devices Based on Electroconductive Polymers” International Seminar on the Technology of Inherently Conductive Polymers, Deerfield, Florida: February 26-28th, 1996.
168. Norman F. Sheppard, Jr., David J. Mears and Anthony Guiseppi-Elie “Model of a Conductimetric Urea Biosensor” Pacifichem '95; December 11- 16, 1995.
169. Anthony Guiseppi-Elie and Norman F. Sheppard, Jr. (Invited Lecture) Conductimetric Biosensors Formed From Electroconductive Polymer-based Devices. The First Asia-Pacific Symposium on Biosensors; University of Wollongong, NSW, Australia: December 4th - 6th, 1995.
170. Anthony Guiseppi-Elie, James M. Tour, David L. Allara and Norman F. Sheppard, Jr. “Bioactive Polypyrrole Thin Films with Conductimetric Response to Analyte” Symposium on Electrical, Optical, and Magnetic Properties of Organic Solid State Materials: Proceedings of the Fall 1995 MRS Meeting, Boston, Massachusetts. November 27 - December 1, 1995
171. Norman F. Sheppard, Jr., David J. Mears and Anthony Guiseppi-Elie “Model of an Immobilized Enzyme Conductimetric Urea Biosensor” 1995 Annual Fall Meeting of the Biomedical Engineering Society: November, 1995.

172. Anthony Guiseppi-Elie and Norman F. Sheppard, Jr. (Invited Lecture) "Conferring Biospecificity to Electroconductive Polymer-based Biosensor Devices" in symposium on Polymers of Biological Significance; ACS NERM University of Rochester, Rochester, NY: October 22- 25, 1995.
173. Anthony Guiseppi-Elie* and Ann M. Wilson, "Electroconductive Polymer Thin Films with Internal Bioactive Moieties for Biosensor Applications" in symposium on "Polymeric and Organic Materials: Solid State Properties and Smart Materials", 209th National Meeting of the ACS, PMSE Division: Anaheim, April 2- 7, 1995.
174. Anthony Guiseppi-Elie (Plenary Lecture) "Biosensors: Bioanalytical Devices at the Interface Between Biotechnology and Microelectronics." The XIth Conference of Chemistry and Chemical Engineering; University of the West Indies, St. Augustine: Republic of Trinidad and Tobago; March 6 -10, 1995.
175. Anthony Guiseppi-Elie and Ann M. Wilson, "Novel Analytical Method for Conductimetric Chemical and Biosensors Formed from Electroconductive Polymers" in symposium on "Transducer-active Polymers", 208th National Meeting of the ACS, PMSE Division, August 21- 26, 1994.
176. Anthony Guiseppi-Elie, Ann M. Wilson, Charles L. Linden[□], Fred J. Pearce[□], William P. Wiesmann[□], David L. Glick "A Conductimetric H₂O₂ Sensitive Electroconductive Polymer Transducer for Development of Oxidoreductase Enzyme Biosensors and Oxidoreductase Labeled Immunosensors" in symposium on "Transducer-active Polymers", 208th National Meeting of the ACS, PMSE Division, August 21- 26, 1994.
177. Anthony Guiseppi-Elie; "Impedance Sensing" Chemical and Biological Sensors Symposium, University of Pittsburgh, Pittsburgh, Pennsylvania. June 9 - 11, 1993.
178. Anthony Guiseppi-Elie "Conductimetric Biosensors Developed Using the Electroactive Polymer Sensor Interrogation System - EPSIS" 1993 International Electroanalytical Symposium, Indianapolis, Indiana. May 19 - 23, 1993.
179. Anthony Guiseppi-Elie "Chemoresistive Chemical and Biosensor Devices Based on Electroactive Polymer Sensor Technology" Pittsburgh Conference, New Orleans, Louisiana. March 9-12, 1992.
180. Anthony Guiseppi-Elie "Biosensor Devices Formed From Transducer-Active Polymeric Thin Films"; AIChE Annual Meeting, Chicago, Illinois. November 11-16 1990.
181. Anthony Guiseppi-Elie and Ann M. Wilson "Microsensor Devices Formed From Transducer-Active Polymeric Thin Films"; Symposium on Monolayers and Thin Polymeric Films in Electronics, 64th Colloid and Surface Science Symposium, Lehigh University, Bethlehem, PA . June 18-20, 1990.
182. Anthony Guiseppi-Elie "Introduction of Polar Functionalities to the Near Surface of Built-up, Y-Type, L-B Films". The Second Annual Symposium of the North Carolina Section of the American Chemical Society; "Chemistry at Surfaces and Interfaces", Duke University, North Carolina. September 9-10, 1988.
183. Anthony Guiseppi-Elie "Biosensor Applications of Polyacetylene". The 15th Annual National Conference of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE), Philadelphia, Pennsylvania. April 4-8, 1988.

184. Greg S. Galletti and Anthony Guiseppi-Elie "Vinyl Stearate Monolayers for L-B Film Applications", Second International Conference on Langmuir-Blodgett Films, Schenectady, New York. July 1-4, 1985.
185. Anthony Guiseppi-Elie, "Underfilm Corrosion of Coated Mild Steel". The 10th Caribbean Conference of Chemistry and Chemical Engineering, University of the West Indies, St. Augustine, Trinidad. January 3-7, 1983.
186. Anthony Guiseppi-Elie, A. and Gay E. Wnek, "Environmental Stability of Doped (CH)_x Electrodes in Aqueous Solutions". The IUPAC 28th Macromolecular Symposium, University of Massachusetts, Amherst, Massachusetts. July 12-16, 1982.

NATIONAL AND INTERNATIONAL WORKSHOPS

187. *Keynote Lecture and Instructor: Theory and Practice of Point of Care Tests: From Development through Manufacturing.* San Diego Marriott Del Mar Hotel, San Diego, CA, USA. March 31 – April 2, 2009.
188. *Keynote Lecture and Instructor: The Emerging Technologies to Enable Quantitative Rapid Tests.* Hyatt Islandia Hotel, San Diego, California, USA. September 24-26, 2007.
189. *Keynote Lecture and Instructor: The X11th International Seminar on the Technology of Inherently Conductive Polymers: "Clinical Diagnostics Using Bio-Smart Thin Film Biosensors"* . LA PIETRA International Conference Center, Via Bolognese, 120 50139 Florence, ITALY. October 9-11, 2006.
190. *Keynote Lecture and Instructor: Practical Approaches to Microarrays for Diagnostics* Arlington, Virginia, USA. September 19-21, 2006
191. *Keynote Lecture and Instructor: The 1st Asia Biosensors and Biochip "Hands on" Workshop.* Organized by GENE Co., Ltd. and Gene Tech (Shanghai) Co., Ltd. Beijing and Shanghai, Peoples Republic of China. April 6-16, 2006.

INVITED PUBLIC PRESENTATIONS:

"Implantable Biochips: Research at the Center for Bioelectronics, Biosensors and Biochips at Clemson University." Rotary Club of Anderson, Anderson Civic Center, Anderson South Carolina. April 15th, 2008.

"Implantable Biochips: Research at the Center for Bioelectronics. Biosensors and Biochips at Clemson University." Anderson Economic Development Authority, Anderson, South Carolina. March 6th, 2008.

"Implantable Biochips: Research at the Center for Bioelectronics, Biosensors and Biochips at Clemson University." East Greenville Rotary, Greenville East, South Carolina. January 14th, 2008

"Implantable Biochips: Research at the Center for Bioelectronics, Biosensors and Biochips at Clemson University." Simpsonville Rotary, Simpsonville, South Carolina. October 17th, 2007.

"NanoBio: What's all the Fuss about Small Stuff" Honors Program, Virginia Commonwealth University, Richmond, Virginia. Friday 8th, April 2005.

Keynote Address: **"NanoBio: What's all the Fuss about Small Stuff"** 2005 Annual General Meeting of the Virginia Space Grant Consortium (VSGC), Omni Hotel, Norfolk, Virginia. Friday 1st, April 2005.

Keynote Address: **"Engineering in an Era of Nano and Bio"** 2005 Annual General Meeting of the Richmond Joint Engineers Council (RJEC), Jefferson Hotel, Richmond, Virginia. Thursday 24th, February 2005.

"NanoBio: What's all the Fuss about Small Stuff" Lunch Break Science Series, Science Museum of Virginia (SMVA), Richmond, Virginia. Friday 1st, April 2004.

"On-going Research in Bioelectronics, Biosensors and Biochips" Biotechnology Program, Godwin High School, Richmond, Virginia. Wednesday 17th, November 1999.

"A VCU Center for Bioelectronics, Biosensors and Biochips" Board of Advisors and Faculty, VCU Chemical Engineering Department, Virginia Commonwealth University, Richmond, Virginia. Friday 12th, November 1999.

"A VCU Center for Bioelectronics, Biosensors and Biochips" VCU Ad Center, Virginia Commonwealth University, Richmond Virginia. October 13th, 1999.

"Biotechnology: More Biochips Please" Jewish Women's Club of Richmond, Jewish Community Center, Thalheimer Adult Lounge, 5403 Monument Avenue, Richmond Virginia, USA 23284. October 12th, 1999.

"From the Bench to the Biochip: Innovations from VCU". The Charlottesville Venture Group, Charlottesville, Virginia, USA. June 12th, 1999.

"Bioelectronics, Biosensors and Biochips: A Collaborative Research Center of Excellence at VCU". Greater Richmond Technology Council, The Richmond Marriott, Richmond, Virginia, USA. February 9th, 1999.

"The Future of Biomedical Engineering" Alpha Eta Mu Beta Biomedical Engineering Scientific Honor Society, Johns Hopkins University School of Medicine, Baltimore, Maryland. Nov. 5th, 1997.

"Bioactive Electroconductive Polymers: Multifunctional Materials for Biotransducers" Monsanto Growth Enterprises, St. Louis, Missouri. May 23, 1996.

"Surviving in Turbulent Financial Markets and Climates" University City Science Center, Philadelphia, Pennsylvania. November 15, 1994.

"Environmental Diagnostics Using Biosensors" Wistar Symposium Series, Wistar Institute, Philadelphia, PA. May 11, 1994.

"Opportunities in Chemistry -- Biotechnology" Rensselaer Polytechnic Institute (RPI), Department of Chemistry, Troy, NY. April 8, 1994.

"On-site Monitoring of Environmental Pollutants Using Biosensors" Pennsylvania Biotechnology Association Annual Symposium, Pennsylvania Convention Center, Philadelphia, PA. April 26 -27, 1993.

"Careers in Biotechnology: The Picture and the Promise" Clarion University. Annual Symposium, Pennsylvania Science Teachers Association, Allentown, PA. November 4-5, 1993.

"High Technology Entrepreneurship: A Panel Discussion" Moderator, School of Business, Rider University, Lawrenceville, NJ. November 18, 1993.

"Corporate Partnership Management: How to Get Started" Annual Symposium, Northeastern Pennsylvania Technology Council, Wilkes Barre, PA. October 21, 1993.

"Restructuring School Practices for Student Learning Outcomes: A Summit With Education Leaders. "Implications for Practice: Emerging Issues" Temple University Center for Research in Human Development and Education. April 23-24, 1993.

"A Conductimetric Glucose Biosensor for *in vivo* Monitoring of Blood Glucose Levels" Division of Surgery, Walter Reed Army Institute of Research, Washington, DC 20307. July 27, 1993.

"Conductimetric Chemical and Biosensors Devices Based on Electroactive Polymer Sensor Technology" Center for Bio/Molecular Science and Engineering, Naval Research Laboratory, Washington DC 20375. December 6, 1991.

"Biosensor Applications of Polyacetylene" Department of Materials Science and Laboratory for Research on the Structure of Matter, University of Pennsylvania, Philadelphia, Pennsylvania. December 14, 1987.

"Langmuir Blodgett Films: Obituaries and Opportunities" Department of Chemistry, College of Staten Island/City University of New York (CSI/CUNY), New York. November 19, 1987.

"Sensor Applications of Electroactive Polymers" MIT Summer Session Program, Cambridge, Massachusetts. July 22, 1987.

"Preparation and Applications of Langmuir-Blodgett Films" Research Division, W. R. Grace and Co., Columbia, Maryland. August 22, 1984.

"Fuel Cell Applications of Polyacetylene" Sandia National Labs., Albuquerque, New Mexico. August 19, 1983.

"Environmental Stability of Conducting Polyacetylene" Owens Corning Technical Center, Granville, Ohio. March 03, 1983.