

14. "Wet Chemical Etching of Wide Bandgap Semiconductors- GaN, ZnO and SiC, 211th Meeting of the Electrochemical Society , Chicago, IL, May 2007
15. "High Density Inductively Coupled Plasma Etching of Zinc-Oxide and Indium-Zinc Oxide," 211th Meeting of the Electrochemical Society , Chicago, IL, May 2007
16. "Thermally Stable Novel Metal Contacts on Bulk, Single-Crystal n-type ZnO," 211th Meeting of the Electrochemical Society , Chicago, IL, May 2007
17. "Ir/Au ohmic contacts on bulk, single crystal n-type ZnO," 2007 Spring Meeting of the Materials Research Society, San Francisco, CA, April 2007
18. "Ferroelectric phase transition study of coupling KTN perovskites oxides by scanning microwave microscope," 2007 March Meeting of the American Physical Society, Denver, CO, March 2007
19. "Effect of Cryogenic Temperature Deposition of Various Metal Contacts to Bulk, Single-Crystal n-type ZnO," 2006 Fall Meeting of the Materials Research Society, Boston, MA, November 2006
20. "High-density Plasma Etching of Zinc-Oxide and Indium-Zinc-Oxide in Cl₂/Ar and CH₄/H₂/Ar Chemistries," 2006 Fall Meeting of the Materials Research Society, Boston, MA, November 2006
21. "Electroluminescence from ZnO Nanowire/Polymer Composite p-n Junction," 53rd Annual Meeting of the American Vacuum Society, San Francisco, CA, November 2006
22. "X-ray Excited Optical Luminescence Studies of ZnO Nanowires and ZnO/MgxZn(1-x)O Core-Shell Nanowires," 53rd Annual Meeting of the American Vacuum Society, San Francisco, CA, November 2006
23. "Changes in Electrical Characteristics of p-Type Zinc Oxide Thin Films Due to Light and Gas Ambient," TMS Electronic Materials Conference, State College, PA, June 2006
24. "Determination Of MgO/GaN And Zn_{0.95}Cd_{0.05}O/ZnO Heterojunction Band Offsets By X-Ray Photoelectron Spectroscopy" Florida Chapter American Vacuum Society Meeting, Orlando, FL, March 2006
25. "Simulation of ZnO-based UV and Visible Light-Emitting Diode Structures" Southeast Section of the American Physical Society Meeting, Gainesville, FL, November 2005
26. "Improved Pt /Au and W/Pt/Au Schottky Contacts on n-type ZnO Using Ozone Cleaning", 2005 Annual Joint Symposium of Florida Chapter of the AVS and Florida Society for Microscopy, Florida AVS, Orlando, FL, March 2005
27. "Thermal Stability of Tungsten-Based Schottky Contacts to N-Type ZnO", 207nd ECS Meeting, The Electrochemical Society, Quebec City, Canada, May 2005
28. "Fabrication of ZnMgO:P/ZnO p-n Junctions on ZnO Substrates", 2005 Electronic Materials Conference (EMC), TMS, Santa Barbara, CA, June 2005
29. "Effect of Ozone Cleaning on Pt /Au and W/Pt/Au Schottky Contacts to n-type ZnO", 27th Int. Conf. Physics of Semiconductors, Flagstaff, AZ, July 2004
30. "Carrier Concentration Dependence of Ti/Al/P+/Au Ohmic Contacts to p-doped ZnO Thin Films", 2004 MRS Spring Meeting, Materials Research Society, San Francisco, California, April 2004
31. "Sensitivity of Pt/ZnO Schottky Diode Characteristics to Hydrogen", 203rd Meeting of ECS, The Electrochemical Society, San Antonio, Texas, May 2004
32. "Ferromagnetism in Mn- and Co-implanted ZnO Nanorods", IEEE Nano-2003, IEEE, San Francisco, August 2003
33. "Ion Implantation for Creating Room Temperature Ferromagnetism in Wide Bandgap Semiconductors", ISCS-2003, IEEE, La Jolla, California, August 2003
34. "Annealing Temperature Dependence of Contact Resistance and Stability for Ti/Al/Pt/Au Ohmic Contacts fro Bulk n-ZnO", ISCS-2003, IEEE, La Jolla, California, August 2003
35. "Thermal Stability and Magnetic Properties of Mn- and Co-Implanted ZnO Nanorods", 11th Intl. Cong. On II-VI Compounds, IEEE, Niagara Fall, NY, September 2003
36. "Modification of MBE Grown ZnO Nanorods with Mn and Co Effects on Microstructure and Properties", 2003 Fall MRS Meeting, Materials Research Society, Boston, Massachusetts, December 2003

37. "Near Infrared Display Materials," SPIE-The International Society for Optical Engineering Conference on Cockpit Displays, Orlando, FL, April 21-25, 2003
38. "Effects Of Hydrogen And Dry Etching On ZnO," 2002 Fall Meeting of the Materials Research Society, Boston, MA, December 1-5, 2002
39. "Pulsed Laser Deposited Zn₂GeO₄ Thin Films for Field Emission Displays," American Vacuum Society 49th International Meeting, Denver, CO, November 3-8, 2002
40. "Hydrogen Incorporation, Diffusivity and Evolution in Bulk ZnO," 9th International Workshop on Oxide Electronics, St. Pete Beach, FL, October 20-23, 2002
41. "ICP Dry Etching of ZnO and Effects of Hydrogen," 9th International Workshop on Oxide Electronics, St. Pete Beach, FL, October 20-23, 2002
42. "Magnetic Properties of Co- and Mn-Implanted BaTiO₃, SrTiO₃ and KTaO₃," 9th International Workshop on Oxide Electronics, St. Pete Beach, FL, October 20-23, 2002
43. "Ferromagnetism in Co- and Mn-Doped ZnO," 9th International Workshop on Oxide Electronics, St. Pete Beach, FL, October 20-23, 2002
44. "A Method for Improving Nucleation of Thick YBCO Films in the Ex-situ Process," Applied Superconductivity Conference, Houston, TX, August 2002.
45. "Orientation and strain mapping in RABiTS using X-ray microbeam diffraction," 2001 Fall Meeting of the Materials Research Society, Boston, MA, November 2001.
46. "Effect of sulfur surface structure on nucleation of oxide seed layers on textured metals for coated conductor application," 2001 Fall Meeting of the Materials Research Society, Boston, MA, November 2001.
47. "Submicron-Resolution Measurement of Texture and Strain in Oxide Films Using X-ray Microdiffraction.," The American Ceramic Society 103rd Annual Meeting, Indianapolis, IN American Ceramic Society, April 2001.
48. "X-Ray Microbeam Mapping of Local Lattice Orientations and Strains in Oxide Films," March 2001 Meeting of the American Physical Society, Seattle, WA USA March 2001.
49. "X-ray microbeam mapping of local lattice orientation and strains in oxide films," 2001 March Meeting of the American Physical Society, Seattle, WA, March, 2001.
50. "Superconducting MgB₂ films with T_c > 20 K by Pulsed Laser Deposition," March Meeting of the American Physical Society, Seattle, WA, March 2001.
51. "Effects of Surface Chemistry and Structure on Buffer Layer Epitaxy," ISTEC/MRS HTS Conductors, Processing and Applications, Honolulu, HI USA, June 2001
52. "Conductive buffer layers and overlayers for the thermal stability of coated conductors," Applied Superconductivity Conference, Virginia Beach, VA, September 2000.
53. "Comparison between the effects of substrate surface conditions and ion irradiation defects on flux-pinning properties of YBCO epitaxial films," Fall Meeting of the Materials Research Society, Boston, MA November 2000.
54. "Submicron-Resolution Texture and Strain Determination Using X-Ray Microbeams," Workshop on Texture in Electronic Applications, Gaithersburg, MD October 2000.
55. "Recent progress in the fabrication of High-J_c tapes by epitaxial deposition of YBCO on RABiTS," International Symp. On Superconductivity, Tokyo, Japan, October 2000.
56. "Materials Science Using Submicron-Resolution Polychromatic X-Ray Diffraction," Tenth Users Meeting for the Advanced Photon Source, Argonne, IL May 2000.
57. "Crystalline oxides as gate dielectrics for MOSFETs," Spring Meeting of the Materials Research Society, San Francisco, CA, April 2000.
58. "High-J_c YBCO Conductors Fabricated By Epitaxial Deposition Of YBCO On Rolling Assisted Biaxially Textured Substrates (RABiTS)," Fall Meeting of the Materials Research Society, Boston, MA (1999)
59. "Microstructure In YBCO Coated Conductors," Fall Meeting of the Materials Research Society, Boston, MA 1999.

60. "Epitaxial Growth Of Oxide Films On Textured Ni Substrates Studied By X-Ray Microbeam Diffraction," Fall Meeting of the Materials Research Society, Boston, MA 1999.
61. "Reel-To-Reel Dip-Coating Unit For Fabricating Long RABiTS For HTS Coated Conductors," Fall Meeting of the Materials Research Society, Boston, MA 1999.
62. "Growth Regimes And Nucleation Of Thick High- J_c YBCO Films On Flexible Metallic Substrates," Fall Meeting of the Materials Research Society, Boston, MA 1999.
63. "Effects Of Pulsed-Laser Deposition Regimes On Flux-Pinning Properties Of YBCO Thin Films," Fall Meeting of the Materials Research Society, Boston, MA 1999.
64. "Epitaxial Growth Of Conductive Buffer Layers For The Development Of Coated Conductors," Fall Meeting of the Materials Research Society, Boston, MA 1999.
65. "Comparison Of Microstructure In YBCO Films Deposited On Alternative Oxide Buffer Layers On RABiTS," Fall Meeting of the Materials Research Society, Boston, MA 1999.
66. "Demonstration of High Current Density YBCO Coated Conductors On Re_2O_3 Buffered Ni Substrates with Two New Alternative Architectures," Advances in Cryogenic Engineering 1999, Cryogenic Engineering and International Cryogenic Materials Conf., Montreal, Canada, July 1999.
67. "High J_c YBCO conductors fabricated by epitaxial deposition of YBCO on strengthened, nonmagnetic rolling assisted biaxially textured substrates," Advances in Cryogenic Engineering 1999, Cryogenic Engineering and International Cryogenic Materials Conf., Montreal, Canada, July 1999.
68. "X-Ray Microbeam Investigation Of Epitaxial Oxide Films On Textured Metal Substrates." Spring Meeting of the Materials Research Society, San Francisco, CA, April 1999.
69. "Power loss of AC transport current flow in superconductive films, March Meeting of the American Physical Society, Atlanta, GA, 1999.
70. "Crystallographic Tilting of Oxide Films on Textured Metal Substrates Investigated by X-Ray Microbeams," March Meeting of the American Physical Society, Atlanta, GA, 1999
71. "Barrier to vortex entry raises both critical current and ac loss in superconductive film," 1998 Fall Meeting of the Materials Research Society, Boston, MA 1998.
72. "Important effect of YBCO microstructural homogeneity on electrical connectivity of coated conductors fabricated by the RABiTS approach," 1998 Fall Meeting of the Materials Research Society, Boston, MA 1998.
73. "Investigating the Atomic Scale Superconducting Properties of Grain Boundaries in High-T(Sub c) Superconductors," 14th Int. Conf. on Electron Microscopy, Cancun, Mexico, August, 1998.
74. "Fabrication of High Current $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ Coated Conductors Using Rolling Assisted Biaxially Textured Substrates," 9th CIMTEC-World Forum on New Materials, 6th Symp. on Science and Engineering of HTC Superconductivity, Florence, Italy, June 1998.
75. "Depositions of epitaxial noble metal buffer layers on textured Ni tapes by sputtering for the fabrication of flexible high- J_c HTS wires," 1998 Spring Meeting of the Materials Research Society, San Francisco, CA 1998.
76. "Electrical connectivity and microstructure in YBCO films fabricated on RABiTS," March Meeting of the American Physical Society, Los Angeles, CA, March 1998.
77. "Effect of layer thickness on the ferroelectric transition in epitaxial $\text{KTaO}_3/\text{KNbO}_3$ multilayers," March Meeting of the American Physical Society, Los Angeles, CA, March 1998.
78. "Superconducting transport properties of single grain boundaries in large magnetic fields: Correlation with atomic structure," March Meeting of the American Physical Society, Los Angeles, CA, March 1998.
79. "Comparison of ac transport current flow in superconductive films," March Meeting of the American Physical Society, Los Angeles, CA, March 1998.
80. "Investigation of the Local Superconducting Properties at Grain Boundaries in High-T(Sub c) Superconductors," Microscopy and Microanalysis '98, Atlanta, GA, July 1998.
81. "Superconducting Properties Of HTS Films On Textured Metallic Tape Substrates: Prospects For A New Generation Of Wires," Fall Meeting of the Materials Research Society, Boston, MA 1997.

82. "High-Resolution TEM/AEM Characterization Of Epitaxial Oxide Multilayers Fabricated By Laser Ablation On Biaxially Textured Ni," Fall Meeting of the Materials Research Society, Boston, MA 1997.
83. "Growth Of Biaxially Textured Buffer Layers On Rolled-Ni Substrates For High Current YBaCuO Conductors," Fall Meeting of the Materials Research Society, Boston, MA 1997.
84. "Towards Long Lengths Of High Critical Current Density YBaCuO Tapes," Fall Meeting of the Materials Research Society, Boston, MA 1997.
85. "Alternating Current Losses In YBaCuO and TlBaCaCuO Films," Fall Meeting of the Materials Research Society, Boston, MA 1997.
86. "Stability Of Epitaxially Grown Superconducting Films On Biaxially Textured Metal Substrates," Fall Meeting of the Materials Research Society, Boston, MA 1997.
87. "Correlation of Transport Properties with Grain Boundary Atomic Structure in High-T(Sub c) Superconducting Films and Tapes," Advances in Superconductivity X, Proc. 10th Int. Symp. on Superconductivity (ISS '97), Gifu, Japan, October 1997.
88. "Superconducting transport properties of High- J_c biaxially aligned YBa₂Cu₃O₇ deposit on metallic tape substrates," ISTEC/MRS International Workshop on Superconductivity, Big Island, Hawaii 1997.
89. "High critical current density tapes by epitaxial deposition of superconducting thick films on biaxially textured metal substrates," 1997 Annual Meeting of the TMS, Orlando, FL 1997.
90. "Properties of CoSb₃ films grown by pulsed laser deposition," Spring Meeting of the Materials Research Society, San Francisco, CA 1997.
91. "Superconducting properties of High- J_c biaxially aligned YBa₂Cu₃O₇ thick films on metallic tape substrates," Spring Meeting of the Materials Research Society, San Francisco, CA 1997.
92. "Superconducting properties of High J_c biaxially textured YBa₂Cu₃O₇ thin films of metallic tape substrates," March Meeting of the American Physical Society, Kansas City, MO, March 1997.
93. "Fabrication and Properties of High- J_c , Biaxially Aligned YBa₂Cu₃O_{7- δ} Thick Films on Metallic Tape Substrates," International workshop - Critical currents in superconductors for practical applications, Xian; China, March 1997.
94. "Low Cost, Single Crystal-like Substrates for Practical, High Efficiency Solar Cells," Conference on Future Generation Photovoltaic Technologies, Denver, CO, March 1997.
95. "Superconducting Transport Properties of High- J_c Biaxially Aligned YBa₂Cu₃O_{7- δ} Deposits on Metallic Tape Substrates," International Workshop On Superconductivity, Big Island, Hawaii, June 1997.
96. "Pulsed laser deposition of Sr₂Cu_{1+x}O_y(CO₃)_{1-x} infinite layer oxycarbonate films," March Meeting of the American Physical Society, March 1997.
97. "Biaxially oriented metallic tape substrates for high-temperature superconductors," International Conference on Low Temperature Physics; 21st -- 1996 Aug : Prague, Czechoslovakia, August 1996.
98. "Fabrication of High Critical Current Density Superconducting Tapes by Epitaxial Deposition of YBCO Thick Films on Biaxially, Textured Metal Substrates," Advances in superconductivity IX, Sapporo; Japan, October 1996.
99. "Development of Biaxially Textured Buffer Layers on Rolled-Ni Substrates for High Current YBa₂Cu₃O_{7- δ} Coated Conductors," Advances in superconductivity IX, Sapporo; Japan, October 1996.
100. "Fabrication of biaxially textured superconductors using the RABiTS process," Spring Meeting of the Materials Research Society, San Francisco, CA 1996.
101. "Superconducting transport properties of high- J_c YBa₂Cu₃O₇ thick films deposited on biaxially oriented metallic substrates," Fall Meeting of the Materials Research Society, Boston, MA 1996.
102. "The atomic origins of reduced critical currents at [001] tilt grain boundaries in YBCO thin films," Fall Meeting of the Materials Research Society, Boston, MA 1996.

103. "Toward the atomic level engineering of grain boundaries in ceramic superconductors," Fall Meeting of the Materials Research Society, Boston, MA 1996.
104. "Defect Formation and Carrier Doping in Epitaxial Films of the Infinite Layer Compound," vol.2697, Oxide Superconductor Physics and Nano-Engineering II, Soc. Photo-Opt. Instrum. Eng. Photonics West '96 Symp., San Jose, CA, Jan. ,1996.
105. "Sub-coherence length determination of the effects of interface structure on hole depletion in high-temperature superconductors," March Meeting of the American Physical Society, March 1994.
106. "Pulsed Laser Deposition of $\text{Sr}_2\text{Cu}_{1+x}\text{O}_y(\text{CO}_3)_{1-x}$ Infinite Layer-Oxycarbonate Films," March Meeting of the American Physical Society, St. Louis, MO, March 1996.
107. "Raman characterization of artificially layered superconducting $\text{SrCuO}_2\text{-BaCuO}_2$ thin films," March Meeting of the American Physical Society, St. Louis, MO, March 1996.
108. " $\text{KTaO}_3/\text{KNbO}_3$ thin-film superlattices compared to $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ solid-solution layers," March Meeting of the American Physical Society, St. Louis, MO, March 1996.
109. "Growth-induced columnar defects in $\text{YBa}_2\text{Cu}_3\text{O}_7$ grown on miscut LaAlO_3 ," Fall Meeting of the Materials Research Society, Boston, MA, November 1995.
110. "Fabrication of biaxially aligned polycrystalline HTSC using a new process," Fall Meeting of the Materials Research Society, Boston, MA, November 1995.
111. "Synthesis of HTS-Oxycarbonate epitaxial films," Fall Meeting of the Materials Research Society, Boston, MA, November 1995.
112. "Superlattices of epitaxial ferroelectric KNbO_3 and paraelectric KTaO_3 films," Fall Meeting of the Materials Research Society, Boston, MA, November 1995.
113. "Defect Formation and Carrier Doping in Epitaxial Films of the "Parent" Compound SrCuO_2 : Synthesis of Two Superconducting Descendants," Intl. Workshop on Superconductivity, Maui, HI, June,1995.
114. "Branches on a Family Tree: Superconductivity in Epitaxial Films of "First-in-Line" Descendants of the Parent Compound SrCuO_2 ," High Temperature Superconductor Workshop on Applications and New Materials, Univ. of Twente, Enschede, The Netherlands, May, 1995
115. "Sub-Coherence Length Determination of the Effects of Interface Structure on Hole Depletion in High-Temperature Superconductors," March Meeting of the American Physical Society, Pittsburgh, PA, March, 1994.
116. "Flux-Pinning Related Defects in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films Grown on Miscut LaAlO_3 (001) Substrates," 52nd Annu. Meet. Microsc. Soc. Am., New Orleans, July, 1994.
117. "Epitaxial YBaCuO films on metal substrates and buffer layers," March Meeting of The American Physical Society, Seattle, WA 1993.
118. "Atomic resolution mapping of hole concentrations around $\text{YBa}_2\text{Cu}_3\text{O}_7$ grain boundaries," March Meeting of The American Physical Society, Seattle, WA 1993.
119. "Superconductive transport properties of heavy ion irradiated epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films," March Meeting of The American Physical Society, Seattle, WA 1993.
120. "Experimental Investigations of Superconductivity in Quasi-Two-Dimensional Epitaxial Copper Oxide Superlattices and Trilayers," TMS Symposium on the Synthesis and Processing of Electronic and Photonic Material, Denver, CO, February 1993.
121. "Transport-Current resistivity and inductive impedance of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattice films," Applied Superconductivity Conference, Chicago, Illinois 1992.
122. "Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films: Scanning tunneling microscope study of initial stages of growth, growth mechanism, and surface microstructure," Fall Meeting of the Materials Research Society, Boston, MA 1991.
123. "Evidence for doping effects in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films processed at low oxygen pressures," Fall Meeting of the Materials Research Society, Boston, MA 1991.
124. "Effects of oxygen defects and thermal processing on flux pinning in High- J_c $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films," Fall Meeting of the Materials Research Society, Boston, MA 1991.

125. "Growth mechanisms of $\text{YBa}_2\text{Cu}_3\text{O}_7$ films and superlattices studied by Z-contrast STEM," Fall Meeting of the Materials Research Society, Boston, MA 1991.
126. "Evidence for K-T transition in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattice films," Fall Meeting of the Materials Research Society, Boston, MA 1991.
127. "Superconducting Properties and Microstructure of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\Delta}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-\Delta}$ Superlattices," Advances in Superconductivity IV, 4th Int. Symp. on Superconductivity (ISS' 91), Tokyo, Oct. 1991.
128. "Laser Ablation Synthesis and Properties of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-\Delta}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-\Delta}$ Superconducting Superlattices," Laser Ablation of Electronic Material, Basic Mechanism and Application, Meet. Eur. Mater. Res. Soc., Carcans-Maubuisson, France, Sept. 1991.
129. "Epitaxial copper oxide superconductor superlattices," 19th Rare Earth Research Conference, Lexington, Kentucky 1991.
130. "Localized conversion of epitaxial YBCO from c-perp to a-perp by ion implantation and low oxygen pressure annealing," March Meeting of The American Physical Society, Cincinnati, Ohio 1991.
131. "Aspects of thermally activated flux motion in $\text{YBa}_2\text{Cu}_3\text{O}_7$ epitaxial thin films," March Meeting of The American Physical Society, Cincinnati, Ohio 1991.
132. "Transport critical currents in granular-oriented $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films," March Meeting of The American Physical Society, Cincinnati, Ohio 1991.
133. "Effects of oxygen composition on critical currents and flux pinning in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films," March Meeting of The American Physical Society, Cincinnati, Ohio 1991.
134. "Kosterlitz-Thouless-Like Behavior Over Extended Ranges of Temperature and Layer Thickness in Crystalline $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ Superlattices," Univ. of Miami Workshop on Electronic Structure and Mechanisms for High Temperature Superconductivity, Coral Gables, FL, Jan. 1991.
135. "Growth and Transport Properties of Y-Ba-Cu-O/Pr-Ba-Cu-O Superlattices," Soc. Photo-Opt. Instrum. Eng. Conf. on Progress in High-Temperature Superconducting Transistors and Other Devices, Santa Clara, Oct. 1990.
136. "Orientation-Dependent Critical Currents in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Epitaxial Thin Films: Evidence for Intrinsic Flux Pinning," Conf. on Superconductivity and Its Applications, Buffalo, NY, Sept. 1990.
137. "In situ growth of high quality epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ films at moderate substrate temperature and over large areas by pulsed laser ablation," Fall Meeting of the Materials Research Society, Boston, MA 1989.
138. "In situ growth of epitaxial superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ films on insulating, semiconducting and ferroelectric KTaO_3 by pulsed laser ablation," Fall Meeting of the Materials Research Society, Boston, MA 1989.
139. "Epitaxial and superconducting properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ films on five perovskite substrates," Fall Meeting of the Materials Research Society, Boston, MA 1989.
140. "Atomic scale characterization of defects and interfaces by Z-contrast STEM," Fall Meeting of the Materials Research Society, Boston, MA 1989.

Research Funding at UF

Over \$6.4M external funding as lead PI at UF

1. "Development of Materials and Fabrication of Nanoelectronic Devices and Sensors," Office of Naval Research, (08/01/2009 - 07/31/2011), \$2,499,523 (5%), co-P.I.
2. "Acceptor doping and hole transport in ZnO films and heterostructures," National Science Foundation, (06/15/2008 - 05/31/2011), \$414,032 (100%), P.I.
3. "ZnO Nanowire Nanosensors for Biodetection and Identification," Center for NanoBio Sensors/State of Florida, (06/01/07-08/30/08), \$80,000 (100%), P.I.
4. "Center for Sensor Materials and Technologies," Office of Naval Research, (05/14/07-05/13/09), \$2,328,000 (60%), P.I.
5. "Low Dimensional $\text{K}(\text{Nb},\text{Ta})\text{O}_3\text{-(Ba,Sr)FeO}_3$ Thin Film Nanostructures," Army Research Office, (10/01/05-09/30/08), \$270,856 (100%), P.I.

6. "ZnO PN Junctions for Highly-Efficient, Low-Cost Light Emitting Diodes," Department of Energy, (0/01/05-12/31/07), \$914,537 (35%), P.I.
7. "Robust Self-Powered Wireless Hydrogen Sensor", NASA, (10/01/04-09/30/06), \$70,000 (25%), co-P.I.
8. "H₂ Gas Sensors: GaN MOS-HEMTs and ZnO Schottky Diodes with Integrated On-Chip Heater", NASA, (10/01/04-09/30/06), \$70,000 (25%), co-P.I.
9. "Novel Hydrogen Gas Sensors: ZnO Nanorod Hydrogen Gas Sensors", NASA, (10/01/04-09/30/06), \$70,000 (25%), co-P.I.
10. "Transition Metal Doped ZnO for Spintronics," Air Force Office of Scientific Research, (8/01/03-06/30/06), \$450,000 (65%), P.I.
11. "Alternative Chemistries for Barrier Materials in Cu Metallization," National Science Foundation, (09/01/03-08/31/08), \$2,366,692 (30%), co-P.I.
12. "Nanoscale phenomenon in perovskite thin films," Argonne National Laboratory, months (02/14/04-02/16/04), \$10,000 (100%), P.I.
13. "Nanoscale phenomenon in perovskite thin films," Argonne National Laboratory, (03/14/02-08/13/03), \$10,000 (100%), P.I.
14. "Carrier Doping Epitaxial (Zn,Mg) O Thin Films," National Science Foundation, (06/15/03-04/30/06), \$349,990 (100%), P.I.
15. "Polymer Light Emitting Display using a Transparent Thin Film Transistor Array," Army Research Office, (09/01/02-08/31/04), \$416,983 (30%), P.I.
16. "Nucleation and epitaxy of conductive buffers on (001) Cu," Air Force Office of Scientific Research, (09/01/02-07/30/05), \$75,000 (100%), P.I.
17. "Laser molecular beam epitaxy system for nanostructured oxides," Dept. of Defense /DURIP, (04/01/02-03/01/03), \$230,000 (100%), P.I.
18. "Development of High Temperature Physical Property Measurement System for Probing Spin and Charge-Functionalized Thin-Film Materials," National Science Foundation-MRI, (07/01/02-06/30/03), \$161,463 (100%), P.I.
19. "Nanoscale phenomenon in perovskite thin films," Argonne National Laboratory, (03/01/02-06/01/02), \$10,000 (100%), P.I.
20. "Equipment for Nanofabrication Facility," University of Florida Research Foundation, (2/1/02), \$2,492,270 (100%), P.I.
21. "Ion beam assisted deposition of NiO as biaxially-textured buffer for HTS coated conductor," IGC-SuperPower, (11/01/01-10/31/06), \$254,831 (100%), P.I.
22. "Intelligent luminescence for communication, display, and identification," Georgia Institute of Technology/MURI, (06/01/01-05/31/04), \$707,501 (25%), co-P.I.
23. "Low-dimensional K(Nb,Ta)O₃ thin films structures," Army Research Office, (05/01/01-10/31/04), \$434,000 (100%), P.I.
24. "Nanoscale phenomenon in perovskite thin films," Argonne National Laboratory, (03/01/01-06/01/01), \$10,000 (100%), P.I.
25. "High temperature superconducting films and buffers on biaxially textured Cu," Oak Ridge National Laboratory, (10/01/00-09/30/01), \$53,239 (100%), P.I.

TEACHING

Courses Taught as Faculty in Materials Science and Engineering

- **EMA 3010: Introduction to Materials Science and Engineering (undergraduate)**
Atomic structure and bonding, crystal structures, defects, diffusion, mechanical properties of metals, phase diagrams and transformations, ceramics, polymers, composites, corrosion, and electronic properties
- **EMA 3413: Introduction to Electronic Materials (undergraduate)**
Electrons in solids, electrical properties of metals, semiconductors, and insulators, optical properties, magnetic properties, thermal properties
- **EMA 6110: Electron Theory in Solids (graduate)**
Topics covered include wave mechanics, quantum mechanics, statistical mechanics, free electron theory, quantum mechanics for crystals, semiconductor properties, optical properties, dielectric/ferroelectrics, and magnetic properties
- **EMA 6111: Electron Theory in Solids II: Optical and Magnetic Properties (graduate)**
Electromagnetic waves, physics of metals, optical properties of insulators, semiconductor absorption and photoluminescence, lasers, nonlinear opticals, magnetism
- **EMA 6938 Electronic Oxides: Properties and applications (graduate)**
Survey of properties, chemistry of oxides, thermodynamic stability of oxides, structural aspects of oxides, structural families, models of electronic structure, insulating oxides, semiconducting oxides, metallic and magnetic oxides, superconducting oxides

Profile

Peter

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L

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Initial

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Primary Phone

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Alternate Phone

Travel Revealed

Employer

President

Job Title

Which Boards would you like to apply for?

Gainesville/Alachua County Regional Airport Authority

Are you applying for Empowerment Center Oversight Advisory Board?

Yes No

Are you an Alachua County Resident?

Yes No

Home

Primary Phone Type

Cell

Alternate Phone Type

Interests & Experiences

Why are you interested in serving on a board or commission?

I served on the GACRAA board some years ago, was elected by the board as chair, twice, and was recently asked to apply to serve again by the current chair, Kinnon Thomas. Air service has always been an important concern of mine for the economic vitality of our region. My business background and experience, I believe, could compliment and support the great work the airport CEO, Allan Penksa, has provided our community during his tenure and continue his efforts to nurture and grow the air service options we have in our region.

[PeterLarsJohnson_resume_April_2016.docx](#)

Upload a Resume

Please upload a file

Demographics

Prefer not to Answer

Ethnicity

Male

Gender

Are you a City of Gainesville Employee?

Yes No

Are you a City of Gainesville Intern?

Yes No

Are you currently on a City Advisory Board/Committee?

Yes No

If yes, which Advisory Board/Committee?

**GAINESVILLE/ALACHUA COUNTY REGIONAL AIRPORT AUTHORITY
CERTIFICATION OF APPLICATION FOR MEMBERSHIP**

This is to certify that I, Peter Lars Johnson, am aware of and am in compliance with the membership requirements of sections of the State Legislation 2006-363 which established the Gainesville/Alachua County Regional Airport Authority:

Section 2, Paragraph 9:

- (9) "Person" means any individual, firm, partnership, corporation, company, association, joint stock association, or body politic and includes any trustee, receiver, assignee, or other similar representative thereof.

Section 4, Paragraph 1:

- (1) **MEMBERSHIP:** The powers of the authority shall be vested in its members in office from time to time. There shall be nine members. No member shall receive any compensation for services as a member. As a condition of eligibility for appointment and to hold office, each member shall reside within the city or the county. However, one member appointed by the Governor may reside in a county contiguous to Alachua County. No person shall serve as a member of the authority and, at the same time, hold any publicly elected office in the State of Florida.

Section 4, Paragraph 5:

- (5) All members appointed subsequent to the effective date of this act shall serve 3-year terms of office, beginning on August 1 and expiring on July 31 of the appropriate year.

Section 6, Paragraphs 1 & 2:

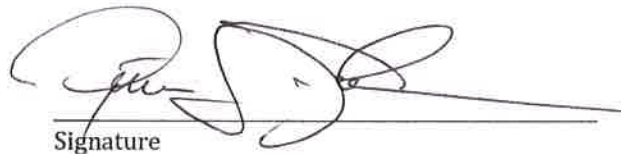
RESTRICTIONS:

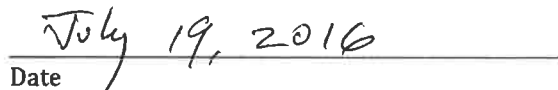
- (1) No person who has transacted business with the authority shall be eligible for appointment to the authority until 3 years after the last transaction. No person who has served on the authority shall be eligible to transact business with the authority until 3 years after the person's last date of service. Said transactions include transactions either for oneself or as an employee of, agent for, or consultant to any other person or legal entity.

However, nothing in this paragraph shall be construed as prohibiting an appointed member from purchasing supplies or services from any fixed-base operators or tenants at the airport or Airport Industrial Park, or for renting individual aircraft hangars or tie-downs offered to the general public and owned by the authority, provided that the price and terms of the transaction are available to all members of the public.

- (2) No member, officer, agent, or employee of the authority, either for himself or herself or as agent for anyone else, or as a stockholder or owner in any other legal entity, shall participate in or benefit directly or indirectly from any sale, purchase, lease, franchise, contract, or other transaction entered into by the authority or the city. The provisions of this subsection shall be cumulative to any general laws of the state that may from time to time be applicable to members, officers, agents, or employees of the authority and that require the disclosure of, or prohibit, conflicts of interest.

I, HEREBY CERTIFY that I am in full compliance with the restrictions set forth in Section 2006-363, Laws of Florida, and I am eligible to be considered for appointment to the Gainesville/Alachua County Regional Airport Authority, and that I retain a copy of these restrictions/requirements.


Signature


Date

This supplement to the Gainesville/Alachua County Regional Airport Authority application is required to be included with the application before it can be submitted to the City Commission for consideration. Please fill in your name, print, sign and date this supplemental, attach it to your application and mail or email to:

Clerk of the Commission
Airport Supplemental
P.O. Box 490 MS 18
Gainesville, FL 32627-0490
depclerk@cityofgainesville.org

Remember to retain a copy for your records.

Peter Lars Johnson
2935 NW 23rd Terrace
Gainesville, FL 32605
PeterLarsJohnson@gmail.com
352-338-1791 office 352-219-3084 cell

EXPERIENCE

Co-founder/President ***Travel Revealed, Gainesville, FL*** ***3/2015-Present***

Publishing firm which was founded to scale and expand the incredibly successful Hawaii Revealed series (www.hawaiirevealed.com), first to the mainland USA, and then to the world. With Travel Revealed, the world of travel information will change forever. Tourists with smartphones, desktops, and tablets, traveling to biggest travel markets in the U.S. and eventually the world, will have free access to travel information from a proven, respected source, that provides them with trusted, unbiased and professionally produced traveler information.

Founder/President ***Goalmasters, Gainesville, FL*** ***5/2002 – Present***

Consulting firm providing services to a variety of clientele in need of business development, start-up capital, strategic business planning, marketing/sales guidance, performance management, leadership training, licensing technology, pay for performance systems, and partnerships.

Co-Founder ***UF Leadership Development Institute,*** ***01/2004 – 01/2006***
University of Florida, Gainesville, FL

Developed the concept for a university leadership institute, recruited the director, co-authored the business plan, worked as a consultant and agent to successfully develop the client base for the Institute.

President ***Tropic-Kool Engineering, Largo, FL*** ***4/2002 – 08/2003***

President and Chairman of a 25 year old company specializing in heating and air conditioning engineering and mechanical contracting for national restaurant chains. Successfully restructured the company and sold his financial interest to management. Customers include Steak and Shake, Burger King, Dunkin Donuts and others located in the eastern half of the USA.

Director of Marketing ***Tropic-Kool Engineering Largo, FL*** ***12/2000 - 9/2001***

Marketing director for mechanical contracting firm for the fast food restaurant industry. Primarily responsible for identifying and pursuing new products, new potential customers, communications, and updating the company website.

Chief Operating Officer ***Heat Pipe Technology, Inc.*** ***2/1994 - 12/2000***
Gainesville, FL

Raised \$500,000 for the company in 1993, then focused primarily on licensing the company's patented technology. Achieved considerable success in licensing Agreements to GE Appliances and others still generating royalties. Named to the position of COO in January, 1995. The company grew from under \$2,000,000 in annual sales to over \$4,000,000 within two years. In 1999, was successful in securing financing with low interest tax free industrial revenue bonds, to move to a new building and lowered costs by vertically integrating its manufacturing processes.

Chairman/President ***Acappella Spring Water Inc.*** ***6/1996 - 6/1997***
Orange Springs, FL

Elected Chairman and President by the Board of Directors of a spring water bottling company in North Central Florida with the responsibility for reviving an operation that was faced with bankruptcy (foreclosure). Peter's original association with this company was as an independent investment banker in 1992 when he raised over \$2,000,000 in financing for the purpose of building an on site bottling plant. Peter introduced fiscal management controls and implemented improvements in operation efficiency to produce a positive cash flow. In 1997, he was successful in attracting a company to acquire the company. This was accomplished while working full time for Heat Pipe Technology as COO.

Founder/Owner ***Peter Johnson Investments, Gainesville, FL*** ***3/1992 - 2/1994***

President of a small investment banking consulting firm working to locate angel investors for small companies in North Central Florida. Successfully secured financing for Acappella Spring Water, Heat Pipe Technology, Inc., Impact Golf Company, and other small ventures.

Chief Executive Officer ***Prometa USA, Gainesville, FL*** ***3/1989 - 3/1991***

Served as the CEO for a small startup computer firm founded in Sweden that designed and built a revolutionary processor board for IBM's personal computers. This processor allowed simultaneous operation of DOS and UNIX in a PC and significantly increased processing speed of the PC. The Boca Raton offices of IBM supported Prometa USA financially and with marketing strategies.

VP & Branch Manager ***Dean Witter, Gainesville, FL*** ***3/1988 - 3/1990***

Founded the Dean Witter (now Morgan Stanley) office in Gainesville, FL after EF Hutton was acquired by Shearson (now Smith Barney).

VP & Branch Manager ***EF Hutton & Co., Gainesville, FL*** ***7/1981 - 3/1988***

Co-founder of the brokerage firm's office in Gainesville, FL. For many years this office led the firm in profitability (as a percentage of sales) due to low overhead and strong market presence.

Account Executive

Dean Witter, Ocala, FL

1/1980 – 7/1981

Investment advisor for the Ocala office of Dean Witter.

EDUCATION

University of Florida Gainesville, FL

Bachelor of Science in Business Administration December/1979

Major: Finance

Minor: Marketing

Securities Industry January 1980 to 1995

Series 7, Series 8, Registered Options Principal, Registered Commodities Principal
Life Insurance, Series 11

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Aubrey Daniels:

- Bringing Out the Best, 2003
- Advanced Performance Management Training 2003, 2006
- Pay for Performance Systems, 2005

Perth Leadership Institute:

- Consultant certification training (all levels) 2005, 2006, 2014

UF Leadership Development Institute:

- Emerging Leader
- Experienced Leader
- Balanced Scorecard
- Myers Briggs Type
- DISC profile,

Leadership Gainesville Class 31 (2005)

Resource Associates:

- Strategic Planning
- Executive Leadership
- Customer Service
- Management

COMMUNITY SERVICE

- Candidate for Gainesville Mayor 2013
- Gainesville Alachua County Regional Airport Authority, chairman, 2004 - 2009
- Co-founder of Heart of Florida Mentoring Initiative, 2005
- Board of Trustees, Junior Achievement of North Florida, 2005 - 2013
- Board Member, Leadership Gainesville Alumni Association, 2005- 2013
- Big Brother for Big Brothers and Big Sisters of Gainesville, 2005- 2006
- Tiger Bay of Gainesville, Co-founder, 2006
- Co-founder Butterfly City, 2008- present
- City of Gainesville Plan Board, member, 2011- 2013

HISTORIC PRESERVATION BOARD APPOINTMENT BALLOT

Openings: **One (1) Opening – (City Residency Required)** (A representative from one of the following areas History, Real Estate and/or Real Property Appraisal and/or Finance, Urban Planning and/or Law, Engineering and/or Building Construction or Landscape Architecture)

Applications: **One (1) Application**

PLEASE INITIAL YOUR SELECTION

NAME OF APPLICANT	Comm. Carter	Comm. Hayes-Santos	Comm. Goston	Mayor Poe	Comm. Budd	Comm. Chase	Comm. Warren
William B. Smith (8/4/16 – 6/1/19)							
READVERTISE FOR ADDITIONAL APPLICANTS							

Profile

William

First Name

B

Middle
Initial

Smith

Last Name

w.brian.smith@gmail.com

Email Address

1553 NW 21st Ave

Street Address

Suite or Apt

Gainesville

City

FL

State

32605

Postal Code

District 2

Ward

Mobile: (352) 235-9028

Primary Phone

Home:

Alternate Phone

TEKSystems

Employer

IT Infrastructure and Designer

Job Title

Which Boards would you like to apply for?

City Plan Board, Gainesville/Alachua County Cultural Affairs Board, Gainesville/Alachua County Regional Airport Authority, **Historic Preservation Board**

Cell

Primary Phone Type

Alternate Phone Type

Interests & Experiences

Why are you interested in serving on a board or commission?

I am interested in helping shape the direction of Gainesville. I'm a firm believer in doing what's right, and being truthful even if it hurts.

[resume_w.brian.smith.docx](#)

Upload a Resume

Please upload a file

Demographics

Caucasian/Non-Hispanic

Ethnicity

Male

Gender

Are you a City of Gainesville Employee?

Yes No

Are you a City of Gainesville Intern?

Yes No

Are you currently on a City Advisory Board/Committee?

Yes No

If yes, which Advisory Board/Committee?

William BRIAN Smith
1553 NW 21st Ave
Gainesville, FL 32605
tel: +1 352 235 9028
w.brian.smith@gmail.com

- Summary** Hands-on information technology manager, known for innovative approach to solving problems. Team leader experienced in building and motivating professional, capable, and responsive organizations.
- Effective in fostering collaboration and consultative relationships with senior management and across traditional boundaries; highlighting inflection points of technology decisions.
 - Technical leader with broad experience, brings focus on “big picture” business impacts of technology projects: real costs, practical benefits, risks and contingencies.
 - Adaptable – skilled at supporting individuals, building systems, handling problems; as well as managing teams, training, developing strategies, policies and processes.
- Technology**
- Platforms:** Linux (CentOS 7/Red Hat Enterprise Linux 7, Ubuntu), Unix (Solaris, AIX), Macintosh (OS X 10), Windows (Windows 8.1, 10, Server 20012 R2, Exchange Server 2016; licensing/acquisition issues), Amazon Web Services (cloud-based), VMware ESX/ESXi, Citrix XenServer, Microsoft Hyper-V, MySQL, Oracle, NetApp, EMC Clariion, CFEngine, Puppet, Foreman, Spacewalk, Labtech, Virtual Desktop Infrastructure.
- Programming:** Python, bash, shell scripting/utilities, PHP, Perl, C.
- Applications:** Microsoft Office, OpenOffice; Adobe CC; Zabbix, Bacula, Apache 2.2, Spiceworks, Splunk.
- Network:** TCP/IP (DNS, SMTP, ssh, HTTP, X11, BGP/WAN, 802.11, etc.), IPv6, Ethernet, Postfix, Juniper ScreenOS, Cisco IOS; VoIP (Asterisk 1.8, SIP telephony), PGP.
- Experience**
- IT Infrastructure and Designer, *TEKSystems* Gainesville, FL 2012-Present
Manage physical and virtual infrastructure for Gainesville Regional Utilities and some city departments.
- Perform physical to virtual conversions of server operating systems.
 - (Position is still very new to me <1 month)
- Systems Administrator, *UF – Electrical and Computer Engineering Department*, Gainesville, FL 2012-Present
Managed information technology team for a department within a public university that is ranked #14 nationwide. Consulted with UFIT Administrative offices on Windows/network security issues (firewall, virus, spam.) Planned and executed \$350,000 student computer lab upgrade from Windows 7, Windows Server 2008, RHEL 5 to Thin clients, Windows 10 on a VMware Horizon View VDI backend, SSD SAN, and RHEL 7 including database creations/moves, and production-ready installation and tailoring of Linux servers.
- Management of Staff, Faculty, and Student computing resources within the department.
 - Implemented virtualization technologies in the datacenter using VMware ESXi and Vcenter, introducing fault tolerance and high availability.
 - Designed custom OS deployment solution using Spacewalk, and Windows Deployment Services over PXE.
 - Architecture of 24 node Windows 2008 R2 Remote Desktop Farm.
 - Deployed VDI infrastructure with GPU acceleration capable of handling 400 concurrent CAD sessions on two physical servers.
 - Remote management of Windows Server, Ubuntu, CentOS, RedHat, and FreeBSD servers.
- Systems Engineer, *RTI Biologics, Inc. (now RTI Surgical, Inc.)*, Alachua, FL 2011-2012
Worked within 20-person department providing all functions of IT/Infrastructure including Database Administration, Systems Administration, Desktop Support teams for a leading global surgical implant company providing surgeons with safe biologic, metal, and synthetic implants with an annual revenue of approximately \$200M per year. Set direction, formulated requirements, and negotiated purchase of hardware/software over a 1-year period with market value of \$4M. Reporting to Director of IT, developed policies, set service levels, managed personnel and budgets, oversaw all aspects of operations.
- Specific achievements include:
- Pioneered telecommuting in the IT department resulting in increased morale with staff, more

technician availability, and repurposed office space for non-telecommute employees.

- Increased server rack density by utilizing blade servers, reducing datacenter rack footprint by 60%.
- Architecture of infrastructure, scaling with VLM servers, database servers, and storage system including 55+TB SAN/NAS storage and tape robotics for backup and archive.
- Negotiated agreements with resellers, vendors; including pricing and agreements with a value of approximately \$1.2M.
- Increased reliability, responsiveness and level of professionalism in department using negotiation, communication skills, and leadership by example.

Engineer, *Gainesville Television Network, Gainesville, FL* 2010-2011

- Provide IT support for CBS, NBC, My, and MeTV digital television networks.
- Support news team computers, tablets, and camera equipment.
- Supervised Assistant Engineer

IT Manager, *Community Services Network of West Tennessee, Bartlett, TN* 2006-2010

- Introduced telecommuting and remote systems administration to the company. Was able to maintain system availability and resolve issues while in Germany.
- Managed a lean team providing systems, network, end-user, and technical support across 30+ locations in West Tennessee.
- Principal individual contributions included enhanced data storage, disaster recovery capabilities, and security.
- Led initiatives in virtualization, Exchange Server upgrade, network monitoring, and reducing business risk and increasing efficiencies.

Sr. Systems Administrator, *Computer & Hi-Tech Management, Pensacola, FL* 1997-2005

Consulting

Preservation of Historic Buildings and Sites Committee, University of Florida, Gainesville, FL 2015-2018

Solicited by UF President to assist the University in implementing its Policy on Historic Preservation. Assist the University in fulfilling federal and state obligations with respect to its historic and archeological resources. Reports directly to the Vice President for Business Affairs.

Chairperson, Rotaract, University of Florida, Gainesville, FL 2015-Present

Appointed by Rotaract District co-Chair. Motivate and assist student-run Rotary Club (Rotaract) in developing strong programs. Identify opportunities to strengthen club, and coordinate training for student leaders.

Baseline Systems, Gainesville, FL 2014-Present

Provide IT solutions and 100% remote support to over 100 commercial clients in the Alachua County area. Serve as primary tech support as well as tier 2+ depending on clients needs.

Personal

Member of Rotary International.

Volunteer Puppy Raiser for Southeastern Guide Dogs.

Hobbies include camping, overland expedition trips, travel, reading, the arts, food.