

## **SUMMARY VITA - J. Ronald Bailey, PhD, P.E.**

### ***Guerry Professor***

**Years on Faculty:** 5 (Original appointment 2004)

#### **Degrees:**

Ph.D.            The University, Southampton, England, 1971  
M.S.            Mechanical Engineering, N.C. State University, Raleigh, N.C, 1968  
B.S.            Mechanical Engineering, N.C. State University, Raleigh, N.C., 1966

#### **Other Related Experience:**

Present            Director, Center for Energy, Transportation and the Environment,  
University of Tennessee at Chattanooga  
2004 – 2007        Guerry Professor and Dean, College of Engineering and Computer Science, University of  
Tennessee at Chattanooga  
2000 – 2004        F.W. Olin Professor and Dean, College of Engineering, Florida Institute of Technology  
1994 – 2000        Department Head, Dean, and Vice President, University of Texas, Arlington, Texas  
1981- 1994        Various management positions with IBM, culminating in Product Manager for the Industrial  
Sector Division's Boca Raton Development Laboratory  
1971 – 1981        Assistant, Associate, and Full Professor, N.C. State University, Raleigh, N.C.

#### **Principal Publications of Last Five Years:**

“Using Topographical and State of Charge Information to Predict the Actual Range of Electric Vehicles”, with Tricia Thomas, Mark Hairr, Paul Griffith, and Woodlyn Madden, presented at Electric Vehicle Symposium 24, Stavanger, Norway, May 2009.

“Data Acquisition System for Electric and Hybrid-Electric Buses”, with Mark E. Hairr, Paul Griffith, and Woodlyn Madden, presented at Electric Vehicle Symposium 24, Stavanger, Norway, May 2009.

“Topographical Inertial Energy Simulator for Hybrid Electric Transit Vehicles”, with Woodlyn Madden and Mark Hairr, presented at Electric Vehicle Symposium 24, Stavanger, Norway, May 2009.

“Moving Toward Sustainability”, World Electric Vehicle Journal, Volume 2, Issue 3, pp. 1-4, December 2008.

“Inductive Charging of Ultracapacitor Electric Bus”, with Paul Griffith and Dan Simpson, World Electric Vehicle Journal, Volume 2, Issue 2, pp.37-45, November 2008.

“Deploying a Hydrogen Powered Hybrid Shuttle Bus”, with Paul Griffith and Dan Simpson, presented at the Electric Vehicle Symposium – 23, Anaheim, Ca, December 2007.

“Using Capstone Design Projects to Differentiate Engineering Programs,” with Cecelia Wigal, Ralph Locurcio, and Robert Woods, presented at the Capstone Design Conference, Boulder, CO, June 2007.

“Predicting Graduation Rates for Engineering Students,” with Neslihan Alp and David Pittenger, presented at the ASEE Southeastern Regional Conference, Louisville, KY April, 2007.

“The East Tennessee Hydrogen Initiative,” an invited presentation at the Southern Fuel Cell Conference, Atlanta, GA, October, 2006.

“Clean Energy for Transportation,” an invited presentation at the Tennessee Valley Technology Corridor Annual Summit Meeting, Chattanooga, TN, September, 2006.

“The Chattanooga Hydrogen Initiative,” with James Frierson and Dan Simpson, an invited presentation at the FuelCellSouth Conference, Oak Ridge, TN, February 23, 2006.

**Scientific and Professional Society Memberships:**

American Society for Mechanical Engineers, American Society for Engineering Education, Tennessee Society for Professional Engineers, National Society for Professional Engineers, Chattanooga Engineers' Club

**Honors and Awards:**

Inducted into Tau Beta Pi, Pi Tau Sigma, Phi Kappa Phi, and Sigma Xi.  
 Named "Engineer of the Year" by Chattanooga Engineers' Club for 2005  
 Named Outstanding Researcher for College of Engineering and Computer Science, 2009

**Institutional and Professional Service:**

Chief Research Officer, December, 2005- 2007  
 President of Chattanooga Engineers' Club – 2008  
 NSF Panel Reviewer, 2005, 2006, 2007, 2008 and 2009-05-20  
 Session Chair for Electric Drive Transportation Association Meeting, December 2008  
 Editor-in-Chief, World Electric Vehicle Journal, Volume 2, 2008  
 Session Chair for Electric Drive Symposium, Stavanger, Norway, May, 2009

**Current Research Contracts**

|   |                    |              |               |
|---|--------------------|--------------|---------------|
| Demonstration of Hydrogen Powered Battery Centric Hybrid Shuttle Bus and Deployment of Inductive Charging System for Transit Operations | FTA<br>TN -26-7034 | \$2,0081,159 | 1/09-12/11    |
| East Tennessee Hydrogen Initiative  | FTA<br>TN-26-7032  | \$286,000    | 07/07-07/09   |
| Advanced Technology for Transportation Research Program   | FTA<br>TN-26-7031  | \$752,000    | 07/06 – 12/08 |
| Vehicle To Grid Demonstration   | Electric Power Bo  | \$125,000    | 07/08 – 06/13 |

**Professional Development Activities in the Last Five Years:**

Attended ASEE Regional Meeting, 2006-2007, attended Engineering Deans Public Policy Colloquium, 2006-2007, and attended Council on Government Relations Meeting, 2006, and renewed PE license in TN and NC.

