

## **Stuart M. Wentworth**

Associate Professor of Electrical & Computer Engineering  
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### **Education**

- B.S. Chemical Engineering, Auburn University with Highest Honors, 1982
- M.S. Electrical Engineering, University of Texas, 1987
- Ph.D. Electrical Engineering, University of Texas, 1990

### **Academic Experience** (full time appointments)

- Auburn University Dept. of Electrical & Computer Engr, Associate Professor, 1996-present
- Auburn University Dept. of Electrical & Computer Engr, Assistant Professor, 1990-1996

### **Non-Academic experience**

- The Univ. of Texas at Austin, Dept. of Electrical & Computer Engr, Graduate Research Assistant, 1987-1990, part time
- The Univ. of Texas at Austin, Dept. of Electrical & Computer Engr, Graduate Teaching Assistant, 1986, part time
- Pinson Associates, Austin, Texas, Technician, 1985, part time
- DuPont Co., Old Hickory, Tennessee, Quality Assurance Engr., 1982-1985, full time

### **Certifications or Professional Registration**

- none

### **Current Membership in Professional Organizations**

- ASEE, IEEE

### **Honors and Awards**

- Superior Service Award for 2016, Samuel Ginn College of Engineering, May 2016
- William F. Walker Teaching Award for Excellence – Merit, 2016
- Auburn University Student Government Association's Final Lecture Award, April 2015
- Electrical Engineering Outstanding Faculty Award: 2015, 2013, 2012, 2010, 2005, 2004, 1998, 1995, 1993
- Auburn University Student Government Association's Final Lecturer 2015
- Auburn University Alumni Undergraduate Teaching Excellence Award 2010
- William F. Walker Superior Teaching Award 2008
- Birdsong Merit Teaching Award 1998-1999
- Fred H. Pumphrey Outstanding Teaching Award 1995-1996
- Faculty Member of the Year, College of Engineering, 1995

### **Service Activities –**

#### **- Service in the Department of Electrical & Computer Engineering**

- Wireless Program Faculty Search Committee, (February 2016 – March 2016)
- Department Representative for the Broun Hall Renovation/Davidson Addition, (January 2016 – Present)
- Curriculum & Assessment Committee Chair, (September 2010 - Present)
- Graduate Teaching Assistant Coordinator, (September 2010 - Present)
- Undergraduate Program Director, (September 2010 - Present)
- Recruitment Committee, (March 2008 - Present)
- Electromagnetics Stem Chair, (February 2008 - Present)

### **- College and University Service**

- Alabama Delegation to Baden-Wurttemberg, Germany, (June 2016)
- Core Curriculum and General Education Committee, (August 2015 – Present)
- ECE Representative for the Brown-Kopel Engineering Student Achievement Center, (January 2016 – Present)
- Academic Excellence Program Director Search Committee, (April 2015 – May 2015)
- Engineering Exchange Program at University of Western Australia, (January 2014 - Present)
- Assessment Subcommittee for the ePortfolio Project, (February 2013 – August 2016)
- Associate Dean for Academics Search Committee, (March 2013-April 2013)
- Birdsong Study Abroad Scholarship Committee, (February 2012 - Present)
- Graduate Student Recruitment Fellowship Committee, (January 2012 - Present)

### **- Professional Service - External to Auburn University**

- Chair-Elect, ASEE ECE Division (June 2016-present)
- Program Chair, ASEE ECE Division. (June 2015 – June 2016)
- Secretary and Treasurer, ASEE ECE Division. (June 2014 – June 2015)
- Member, IEEE Education Society Finance Committee. (August 2013 - Present)
- Program Evaluator, ABET, (June 2013 - Present)
- Advisor, Auburn University Student Branch of the IEEE, (March 2008 - Present)

### **Most Important Publications and Presentations (Last 5 years)**

- C. Prather, H. Harrell, L. Bartlett, and S. Wentworth, “Enhanced Radio Lab Experience Using ePortfolios,” *2016 ASEE Annual Conference & Exposition*, New Orleans, Louisiana, June 26-29, 2016
- Stuart Wentworth, MATLAB in Electrical Engineering: Electromagnetics, presented at the *2013 ASEE Annual Conference & Exposition*, Atlanta, Georgia, June 2013
- Stuart Wentworth, “MATLAB Demonstration of Transmission Line Phenomena in Electromagnetics”, *2012 ASEE Annual Conference and Exhibition*, San Antonio, Texas, June 2012
- Michael Grady, Stuart Wentworth, T. Weller, “Improvements in Cross Ratio Invariance Techniques for Coaxial Probe Dielectric Measurements”, *79th ARFTG Conference*, April 2012
- E. Everett, B. Garrett, S. Wentworth, “A Reusable Coplanar Waveguide Probe for In Situ Material Characterization”, *Microwave and Optical Technology Letters*, Nov. 2011

### **Book and Book Chapters Published**

- S. Wentworth, Applied Electromagnetics: A Transmission Lines First Approach, John Wiley & Sons, 2007
- S. Wentworth, Fundamentals of Electromagnetics with Engineering Applications, John Wiley & Sons, 2004
- S. Wentworth, Conductivity Measurements, Methods of Materials Research: A Current Protocols Publication (MMR), John Wiley & Sons, Alan Samuels, MMR Series Editor, (2001)

### **Recent Professional Development Activities**

- Travel with Alabama Delegation to Baden-Wurttemberg, Germany, to investigate possibility of student exchange program with German universities, June 2016
- Travel to Univ. of Western Australia, Investigate Possibility of Student Exchange Program with Univ. of Western Australia, October 2012
- Performance Task Academy at Auburn University, Learn how to incorporate the teaching of critical analysis within regular courses, August 2011