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1. Employment

1.1. Current Job Description

This is a twelve-month non-tenure accruing position that is 100% teaching appointment in the Agricultural and Biological Engineering (ABE) department.

The teaching responsibilities of this position are split between Biological Engineering (BE) and Agricultural Operations Management (AOM) programs. Courses to be taught include but are not limited to: ABE 4231C: Irrigation and Drainage Engineering, ABE 4042C: Biological Engineering Design I, AOM 4314C: Power Machinery Management, ABE6252: Advanced Soil and Water Management Engineering, ABE6931: Seminar, ABE6986: Applied Mathematics in Agricultural and Life Sciences for Engineers and Scientists, AOM 3734: Irrigation Principles and Practices in Florida, and AOM 4314C: Power Machinery Management. The course assignment changes depending on the needs of the department.

Service responsibilities include: work on departmental committees and advisement of both the Florida Student Branch of ASABE (American Society of Agricultural & Biological Engineering) and Florida Gamma Beta Chapter of Alpha Epsilon (Agricultural & Biological Engineering Honor Society).

1.2. History

- University of Florida, Institute of Food & Agricultural Sciences, Agricultural & Biological Engineering Department
 - Senior Lecturer, 12 month appointment (100% Teaching) August 2018-present
 - Senior Lecturer, 9 month appointment (100% Teaching) August 2017-August 2018
 - Lecturer, 9 month appointment (100% Teaching) November 2011-August 2017
 - Adjunct Assistant Professor, (100% Teaching) August 2007-November 2011
 - Courtesy Assistant Professor, August 2006-August 2007
 - Research Assistant, August 2004-August 2006

2. Education

- University of Florida, Agricultural & Biological Engineering PhD 2002
- University of Florida, Agricultural & Biological Engineering ME 1999
- University of Florida, Agricultural & Biological Engineering BS 1997

3. Teaching

3.1. Educational Program

3.1.1. Value of Teaching Effort

The evolution of the engineering and scientific fields of study has resulted in an increase in the amount of knowledge students need to acquire at the basic level. Engineers and scientists in the modern era must be multifaceted, and skilled enough to both function independently and able to work well in a cooperative group. They should be confident of their knowledge, and be aware of their limitations. The importance of good communication skills cannot be overlooked, especially in the technical fields our students will be entering. Our graduates should be adept at interpersonal communication, networking and public engagement. Above all, our graduates should be equipped to learn

throughout their life time, embracing new ideas, and making decisions based on the best available information. I teach these concepts with this one overarching goal: we need well-rounded professionals, dedicated for the betterment of our world.

3.1.2. Primary Education Goals

I strive to incorporate the best attributes of all the teachers I have admired in the past into my teachings, and it is from these experiences I hope my students are exposed to a beneficial learning environment. My goals related to the above teaching philosophy, are:

- Remain an enthusiastic master of the fundamentals, embracing new technologies and methodologies.
- Integrate engineering standards, extension documents and research into classroom instruction
- Engage students with experiential learning, allowing them to apply instruction to real-world situations.
- Set reasonable and achievable goals to compel and motivate students to learn the required material.
- Match different assessment tools and deliverables to course objectives and desired course outcomes.
- Provide various opportunities for to improve their communication skills

3.2. Instructional Activities

3.2.1. Undergraduate Courses Taught

3.2.1.1. Current Courses

- ABE 4231C: Irrigation and Drainage Engineering.
 - 3 hours lecture, 1 hour discussion, and 2 hours lab. (2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019)
 - Irrigation and drainage systems design, including pump sizing and specification, water distribution systems, plant water requirement, drainage systems and flood control.
- ABE 4042C: Biological Engineering Design I (Agricultural & Biological Engineering Design I.).
 - 1 hour lecture, 1 hour discussion, and 1 hour lab. (2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019)
 - Design of engineered agricultural and biological systems and devices. Problem definition analysis, synthesis, project management, economic, environmental and social impacts. Individual and team projects.
- AOM4314C: Power Machinery Management.
 - 2 hours lecture, 2 hours lab. (2013, 2014, 2016, 2017, 2018, 2019, 2020)
 - Functional requirements, operating principles, performance, safety and economic application of agricultural power units and field machines for citrus, vegetable and field crop production.
- AOM3734: Irrigation Principles and Practices in Florida.
 - 3 hours lecture. (2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, Spring and Summer 2019, Spring 2020)

- Irrigation practice related to Florida agriculture. The course deals with irrigation system characteristics, management, maintenance and economics.

3.2.1.2. Past Courses

- ABE 3212C: Land & Water (Natural Resources) Conservation Engineering.
 - 3 hours lecture, 3 hours lab. (1999, 2000, 2001, 2011)
 - Introduction to hydrology, flow through porous media, flood routing, grade control structures, erosion control, irrigation and drainage.
- ABE 4932C: Applied Hydraulics in Natural Resources Engineering.
 - 3 hours lecture, 1 hour discussion, 2 hours lab. (2002)
 - Fundamental equations for pressurized and gravity flow. Applications of pipe, open channels, and network design oriented for Land and Water (Natural Resources) Engineering.
- ABE 4233C: Drainage & Structural Design.
 - 2 hours lecture, 3 hours lab. (2000)
 - Drainage systems design, including pump sizing and specification, open-channel and culvert sizing, steady state and transient drainage systems and flood control.
- AOM 4933: Professional Practices in Agricultural Operations Management.
 - 1 hour lecture. (2010, 2011, 2012, 2016, 2017)
 - Professionalism and interfacing of technical skills. Topics include ethics, continuing education, placement skills and professional development in Agricultural Operations Management.
- AOM 4455: Agricultural Operations and Systems.
 - (1/3 of Class) 3 hours lecture. (2013, 2014, 2015, 2016, 2017)
 - Quantitative and managerial techniques for management and planning of technical resources in agriculture. Applications of queuing theory, project scheduling, optimization and expert decision systems.

3.2.2. Graduate Courses Taught

3.2.2.1. Current Courses

- ABE 6986: Applied Mathematics in Agricultural and Life Sciences for Engineers and Scientists (Applied Mathematics in Agricultural Engineering).
 - 3 hours lecture. (2015, 2016, 2017, 2018, 2019, 2020)
 - Mathematical methods, including regression analysis, graphical techniques, and analytical and numerical solution of ordinary and partial differential equations, relevant to agricultural engineering
- ABE 6931: Seminar.
 - 1 hour lecture. (Fall & Spring 2010, Fall & Spring 2011, Fall & Spring 2012, Fall & Spring 2013, Fall & Spring 2014, Fall & Spring 2015, Fall & Spring 2016, Spring 2017, Fall & Spring 2018, Spring 2019, Fall & Spring 2020)
 - Preparation and oral presentation of reports on specialized aspects of research in agricultural engineering and agricultural operations management
- ABE 6252: Advanced Soil & Water Management Engineering.

- 3 hours lecture. (2013, 2014, 2016)
- Physical and mathematical analysis of problems in infiltration, drainage, and groundwater hydraulics.

3.3. Advising Activities

3.3.1. Honors Committee: Completed

- Karl Max Wallace. 2014. Summa cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Chair)
- Darshan Shah. 2013. Summa cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Chair)
- Nathan Holt. 2012. Summa cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Chair)
- Nicole Stanford. 2012. Summa cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Chair)
- Fernando Aristizabal. 2011. Summa cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Chair)
- Bryant Shanon. 2011. Magna cum Laude, B.S. Agricultural & Biological Engineering, University of Florida. (Committee Member)

3.3.2. Design Competitions: Completed

3.3.2.1. International Quarter-Scale Tractor Student Design Competition

- Juan Briceno, Vita Karbolyte, Robert Landrum, Thai Lam, Andrea Pardo, Michaela Roberts, and Annai Santi. 2016. Design Explanation/Paper/Lecture/Performance Testing, 16th Place.
- Juan Briceno, Mary Diaz, Austin Harvey, Austin Pluscott, and Annai Santi. 2014. Design Explanation/Paper/Lecture/Performance Testing, 24th Place.
- Taylor Dehnz, Sarah Luther, Tyler Marzella, and Seth Stover. 2013. Design Explanation/Paper/Lecture/Performance Testing, 26th Place.
- Sarah Luther, Tyler Marzella, and Seth Stover. 2012. Design Explanation/Paper/Lecture/Performance Testing, 26th Place.

3.3.2.2. K. K. Barnes Student Research Paper Competition

- Karl Max Wallace. 2015. Paper/Lecture Submission, First Place.
- Jacquelyn E. Neal. 2013. Paper/Lecture Submission, First Place.

3.3.2.3. AGCO National Student Design Competition

- Christopher Gaynor, Michael Hoffman, Sarah McIntyre, and Desiree Van Hemel. 2015. Paper/Lecture Submission, Did not Place.
- Fernando Aristizabal. 2011. Paper/Lecture Submission, First Place.

3.3.2.4. ASABE Undergraduate Project Poster Competition

- Karl Max Wallace. 2014. Poster Submission, First Place.

3.3.2.5. Treasure Coast Education, Research and Development Park Authority (TCERDA) Water Farming Design Competition

- Jose Gaurin, and Karl Max Wallace. 2014. Paper/Lecture Submission, First Place.
- Larry Flood, Galates Sera, Jamie Sortevik, and Piercen Wright. 2013. Paper/Lecture Submission, First Place.
- Brian Brooker, Alban de Crecy, Audrey Knickerbocker, and Robert McDonald. 2013. Paper/Lecture Submission, Second Place.

3.3.2.6. Ability ONE Challenge

- Shannon Brown, Katherine Dunnigan, and Sharda Samlal. 2013. Device/Video Submission, Did not place.
- Alisha Bachan, Alex Hyyti, Nick Morrell, and Jacquelyn Neal. 2013. Device/Video Submission, Did not place.
- Arjchara Colonel, Rushil Patel, Nicholas Pavlovsky, Nicole Stanford, and Alex Tipton. 2012. Device/Video Submission, Did not place.

3.4. Mentoring Leadership

3.4.1. Faculty Advisor

- Florida Student Branch, American Society of Agricultural & Biological Engineers (ASABE) 2011-present
- Southeastern Region, American Society of Agricultural & Biological Engineers (ASABE) 2014-2015
 - 2015 Southeastern Region Rally, Gainesville, FL
- Florida Gamma Beta Chapter, Alpha Epsilon (AE) 2011-Present

3.4.2. Mentoring

- UFLead, Fall 2017.
- University Minority Mentor Program, 2011.

3.5. Graduate Students

3.5.1. Masters of Engineering (Thesis): Completed

- Howard, J. Colleen. 2010. *Efficiency of Plant Response to Applied Nitrogen for Crops*. Agricultural & Biological Engineering, University of Florida. (Committee Member)

3.5.2. Masters of Engineering (Non-Thesis): Completed

- Sera, Galtes. 2015. Agricultural & Biological Engineering, University of Florida. (Committee Member)

4. Publications

4.1. Books

- Overman, A. R. and R. V. Scholtz. 2002. *Mathematical Models of Crop Growth and Yield*. Marcel Decker, New York, New York. 328 pgs.

4.2. Refereed Journal Articles

- Scholtz, R. V. and A. R. Overman. 2014. Estimating Seasonal Nitrogen Removal and Biomass Yield by Annuals with the Extended Logistic Model, PLoS ONE 9(4). e95934. doi:10.1371/journal.pone.0095934.
- Overman A. R. and R. V. Scholtz. 2014. Accumulation of Biomass and Mineral Elements by Peanut: Application of the Expanded Growth Model, Journal of Plant Nutrition, 37 (7): 1080-1092. doi:10.1080/01904167.2014.881489
- Overman A. R. and R. V. Scholtz. 2013. Accumulation of Biomass and Mineral Elements with Calendar Time by Cotton: Application of the Expanded Growth Model. PLoS ONE 8(9): 2013. e72810. doi:10.1371/journal.pone.0072810
- Overman A. R. and R. V. Scholtz. 2011. Accumulation of Biomass and Mineral Elements with Calendar Time by Corn: Application of the Expanded Growth Model. PLoS ONE 6(12): 2011. e28515. doi:10.1371/journal.pone.0028515

- Overman A. R. and R. V. Scholtz. 2011. Model of Yield Response of Corn to Plant Population and Absorption of Solar Energy. PLoS ONE 6(1): 2011. e16117. doi:10.1371/journal.pone.0016117
- Overman, A. R., R. V. Scholtz and K. H. Brock. 2006. Model Analysis of Corn Response to Applied Nitrogen and Plant Population Density, Communications in Soil Science and Plant Analysis, 37 (9&10): 1157-1172.
- Overman, A. R. and R. V. Scholtz. 2005. Model Analysis for Partitioning of Dry Matter and Plant Nitrogen for Stem and Leaf in Alfalfa, Communications in Soil Science and Plant Analysis, 36 (9&10): 1163-1175.
- Overman, A. R. and R. V. Scholtz. 2004. Model Analysis for Response of Dwarf Elephantgrass to Applied Nitrogen and Rainfall, Communications in Soil Science and Plant Analysis, 35 (17&18): 2485-2494.
- Overman, A. R. and R. V. Scholtz. 2004. Model of Dry Matter and Plant Nitrogen Partitioning Between Leaf and Stem for Coastal Bermudagrass. II. Dependence on Growth Interval, Journal of Plant Nutrition, 27 (9): 1593-1600.
- Overman, A. R. and R. V. Scholtz. 2004. Model of Dry Matter and Plant Nitrogen Partitioning Between Leaf and Stem for Coastal Bermudagrass. I. Dependence on Harvest Interval, Journal of Plant Nutrition, 27 (9): 1585-1592.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis for Growth Response of Corn, Journal of Plant Nutrition, 27 (5): 885-906.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis for Growth of Soybean, Communications in Soil Science and Plant Analysis, 34 (17&18): 2619-2632.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of Response of Crabgrass to Applied Nitrogen, Communications in Soil Science and Plant Analysis, 34 (17&18): 2495-2501.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of an Overland Flow Treatment System. II. Seasonal Response to Applied Nitrogen and Phosphorus, Communications in Soil Science and Plant Analysis, 34 (13&14): 1957-1967.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of an Overland Flow Treatment System. I. Accumulation of Dry Matter and Plant Nutrients with Time, Communications in Soil Science and Plant Analysis, 34 (13&14): 1943-1956.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of Forage Response to Split Applications of Nitrogen. II. Coupling of Roots and Tops, Communications in Soil Science and Plant Analysis, 34 (11&12): 1539-1548.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of Forage Response to Split Applications of Nitrogen. I. Plant Tops, Communications in Soil Science and Plant Analysis, 34 (11&12): 1529-1537.
- Overman, A. R. and R. V. Scholtz. 2003. Model Analysis of Response of Pensacola Bahiagrass to Applied Nitrogen on Two Soils, Communications in Soil Science and Plant Analysis, 34 (9&10): 1465-1479.
- Overman, A. R. R. V. Scholtz and C. M. Taliaferro. 2003. Model Analysis of Response of Bermudagrass to Applied Nitrogen, Communications in Soil Science and Plant Analysis, 34 (9&10): 1303-1310.

- Overman, A. R. and R. V. Scholtz. 2003. Model Evaluation of Top and Root Accumulation with Time by Corn, Communications in Soil Science and Plant Analysis, 34 (9&10): 1295-1301.
- Overman, A. R., R. V. Scholtz and C. G. Chambliss. 2003. Response of Coastal Bermudagrass and Pensacola Bahiagrass to Applied Nitrogen and Seasonal Rainfall, Communications in Soil Science and Plant Analysis, 34 (7&8): 1097-1103.
- Overman, A. R. and R. V. Scholtz. 2003. In Defense of the Extended Logistic Model of Crop Production, Communications in Soil Science and Plant Analysis, 34 (5&6): 851-864.
- Overman, A. R. and R. V. Scholtz. 2003. Model Comparison for Three Forage Grasses at the Same Location, Communications in Soil Science and Plant Analysis, 34 (5&6): 735-745.
- Overman, A. R. and R. V. Scholtz. 2003. Dry Matter Production and Cutting Interval. Communications in Soil Science and Plant Analysis, 34 (1&2): 225-229.
- Overman, A. R. and R. V. Scholtz. 2002. Corn Response to Irrigation and Applied Nitrogen. Communications in Soil Science and Plant Analysis, 33 (19&20): 3609-3619.
- Overman, A. R. and R. V. Scholtz. 1999. Model for Accumulation of Dry Matter and Plant Nutrients by Corn. Communications in Soil Science and Plant Analysis, 30(15&16): 2059-2081.
- Overman, A. R. and R. V. Scholtz. 1999. Langmuir-Hinshellwood Model of Soil Phosphorous Kinetics. Communications in Soil Science and Plant Analysis, 30 (1&2): 109-119.

4.3. Education Outreach Articles

- E.S. McLamore, and R. V. Scholtz, III. 2016. Designing Agrotechnology for Dense Urban Communities. Resource Magazine, American Society of Agricultural and Biological Engineers, 23(5): 10.

4.4. Research Reports

- Overman, A. R., R. V. Scholtz and K. H. Brock. Long-Term Performance of Tallahassee Southeast Farm. City of Tallahassee Project Number 88185-C. Tallahassee, Florida.

5. Presentations

5.1. International/National

- R. V. Scholtz, III, and E. S. McLamore. 2013. Reengineering the Capstone Design Experience. American Society of Agricultural Engineers, Annual International Meeting. Kansas City, Missouri.
- Scholtz, R. V. and A. R. Overman. 2001. Natural Resources Engineering at the University of Florida. American Society of Agricultural Engineers, Annual International Meeting. Sacramento, California.
- Scholtz, R. V. and A. R. Overman. 2001. Mathematical Growth Model for Annuals. American Society of Agricultural Engineers, Annual International Meeting. Sacramento, California.

5.2. Regional/State

- R. V. Scholtz, III, and A. R. Overman. 2014. Langmuir-Hinshellwood Kinetics: Phosphorus Response Redux. Florida Section - American Society of Agricultural Engineers, Annual Florida Section Conference and Trade Show. Naples, Florida.
- R. V. Scholtz, III, and E. S. McLamore. 2013. The Redesign of Senior Design. Florida Section - American Society of Agricultural Engineers. St. Augustine, Florida.

- Scholtz, R. V. and A. R. Overman. 2007. The Extended Logistic Model: The Evolution of a Nutrient Management Tool. Florida Section - American Society of Agricultural Engineers. St. Petersburg, Florida.
- Scholtz, R. V. 2007. The ASCE – Standardized Evapotranspiration Equation as Engineering Tool. Florida Section - American Society of Agricultural Engineers. St. Petersburg, Florida.
- Scholtz, R. V. and A. R. Overman. 2002. A Further Look into the Logistic Equation for Dry Matter Yield & Nutrient Uptake. Florida Section - American Society of Agricultural Engineers. Key Largo, Florida.
- Scholtz, R. V. and A. R. Overman. 2002. The Validity of the Manning Formula: A Comparison between Manning and Colebrook-White. Florida Section - American Society of Agricultural Engineers. Key Largo, Florida.
- Scholtz, R. V., K. H. Brock and A. R. Overman. 2001. The Validity of the Hazen-Williams Formula. Florida Section - American Society of Agricultural Engineers. Cocoa Beach, Florida.
- Scholtz, R. V. and A. R. Overman. 1999. Langmuir-Hinshellwood Model of Soil Phosphorous Kinetics. Florida Section - American Society of Agricultural Engineers. Key Largo, Florida.

6. Scholarly Journal Service

6.1. Reviewer for Scholarly Journals

- Reviewer, Agronomy Journal, American Society of Agricultural & Biological Engineers, 2018-present
- Reviewer, Applied Engineering in Agriculture, American Society of Agricultural & Biological Engineers, 2005-present
- Reviewer, Computers and Electronics in Agriculture. 2013-present
- Reviewer, Journal of Irrigation & Drainage Engineering, American Society of Civil Engineers, 2007-present
- Reviewer, PLoS ONE, Public Library of Science. 2011-present
- Reviewer, Transactions of the ASABE, American Society of Agricultural & Biological Engineers, 2005-present

7. Professional Service and Leadership

7.1. International/National

7.1.1. Membership

- Program Evaluator, Accreditation Board for Engineering and Technology (ABET), 2015-present
- Member Engineer, American Society of Agricultural & Biological Engineers (ASABE), 1996-present
- Associate Member, American Society of Civil Engineers (ASCE), 2001-present
- Member, Engineers without Borders, 2010-present
- Member, Sigma Xi ($\Sigma\Xi$), Scientific Research Society, 2002-present
- Sequoyah Fellow, American Indian Science and Engineering Society (AISES), 2009-present

7.1.2. Service and Leadership

- Program Evaluator, Accreditation Board for Engineering and Technology (ABET), 2015-present

- Representative, District 2, Membership Development Council-American Society of Agricultural & Biological Engineers, 2017-2019
- Member, Standards & Technical Council (NRES-03 Chair & Representative)-American Society of Agricultural & Biological Engineers, 2016-2018
- Member, EOPD-204 Engineering & Technology Accreditation-American Society of Agricultural & Biological Engineers, 2015-present
- Member (NRES-26 Chair & Representative), NRES-01 Natural Resources and the Environment Executive-American Society of Agricultural & Biological Engineers, 2019-2022
- Member (NRES-26 Chair & Representative), NRES-02 Natural Resources and the Environment Steering-American Society of Agricultural & Biological Engineers, 2019-2022
- Chair (NRES-26 Representative), NRES-03 Standards Oversight-American Society of Agricultural & Biological Engineers, 2016-2018, 2020-2022
- Vice Chair (NRES-26 Representative), NRES-03 Standards Oversight-American Society of Agricultural & Biological Engineers, 2014-2016, 2018-2020
- Member (NRES-26 Representative), NRES-03 (previous known as SW-03) Standards Oversight-American Society of Agricultural & Biological Engineers, 2011-present
- Member (NRES-26 Chair & Representative), NRES-04 Natural Resources and the Environment Programs-American Society of Agricultural & Biological Engineers, 2019-2022
- Member, NRES-25 Streams, Reservoirs, and Wetlands Group-American Society of Agricultural & Biological Engineers, 2014-present
- Chair, NRES-251 Hydraulic Structures-American Society of Agricultural & Biological Engineers, 2018-2020
- Vice Chair, NRES-251 Hydraulic Structures-American Society of Agricultural & Biological Engineers, 2016-2018
- Member, NRES-251 Hydraulic Structures-American Society of Agricultural & Biological Engineers, 2014-present
- Chair, NRES-26 (previous known as SW-26) Sustainable Land Resources-American Society of Agricultural & Biological Engineers, 2019-2022
- Vice Chair, NRES-26 (previous known as SW-26) Sustainable Land Resources-American Society of Agricultural & Biological Engineers, 2016-2019
- Member, NRES-26 (previous known as SW-26) Sustainable Land Resources-American Society of Agricultural & Biological Engineers, 2011-present
- Member (P-121 Chair & Representative), P-120 Student Organizations -American Society of Agricultural & Biological Engineers, 2012-2016
- Chair, P-121 G.B. Gunlogson Student Environmental Design Competition-American Society of Agricultural & Biological Engineers, 2012-2016
- Member, P-121 G.B. Gunlogson Student Environmental Design Competition-American Society of Agricultural & Biological Engineers, 2000-2001, 2010-present
- Member, SW-243 Water Supply and Conveyance-American Society of Agricultural & Biological Engineers, 2000-2003, 2011-2013

- Member, SW-242 Surface Irrigation & Water Supply-American Society of Agricultural & Biological Engineers, 2013-2014

7.2. Regional/State

7.2.1.Membership

- Member, Florida Section-American Society of Agricultural & Biological Engineers, 1996-present
- Member, Florida Section-American Society of Civil Engineers, 2001-present

7.2.2.Service and Leadership

- Past-Chair, Florida Section-American Society of Agricultural & Biological Engineers, 2017-2018
- Chair, Florida Section-American Society of Agricultural & Biological Engineers, 2016-2017
- Vice Chair for Programs, Florida Section-American Society of Agricultural & Biological Engineers, 2015-2016

7.3. Local

7.3.1.Membership

- Member, Gainesville Branch-American Society of Civil Engineers, 2001-present
- Member, University of Florida Branch- Engineers without Borders, 2015-present

7.4. University

7.4.1.Service and Leadership

- Member, University of Florida Faculty Senate, 2016-2022
- Chair, Infrastructure Council, Faculty Senate Councils, 2019-2020
- Member, Infrastructure Council, Faculty Senate Councils, 2018-2021
- Member, Academic Policy Council, Faculty Senate Councils, 2019
- Member, ROTC Committee, Presidential Committees, 2015-2018
- Member, University Curriculum Committee, Joint Committees, 2016-present
 - Combined Joint & Dual Degree Policy Subcommittee, 2019-2020
- Member, Steering Committee, Faculty Senate Committees, 2019-2020
- Member, Committee on Committees, Faculty Senate Committees, 2019-2022
- Chair, University Constitution and Regulations Committee, Faculty Senate Committees, 2017-2019
- Member, University Constitution and Regulations Committee, Faculty Senate Committees, 2015-2019
- Member, Curriculum Committee-Agricultural & Biological Engineering Department, 2010-present
 - ABET Subcommittee, 2010-present
- Member, Awards Committee-Agricultural & Biological Engineering Department, 2014-2019

8. Honors Awards

8.1. National

- NACTA Educator Award, North American College and Teachers of Agriculture, 2019
- Membership in Alpha Epsilon, Agricultural & Biological Engineering Honor Society, 1999-present

- Membership in Gamma Sigma Delta, International Honor Society of Agricultural Sciences, 2000-present
- Membership in Tau Beta Pi, Honor Society of Engineering, 1999-present

8.2. Regional/State

- Outstanding Service Award, Florida Section-American Society of Agricultural & Biological Engineers, 2016
- Teacher of the Year Award, Florida Section-American Society of Agricultural & Biological Engineers, 2010
- Young Educator Award, Florida Section-American Society of Agricultural & Biological Engineers, 2003

8.3. Local

- Alliance for Graduate Education and the Professorate Fellow - National Science Foundation – University of Florida, 2000-2002

9. Continuing Education

- ABET Fundamentals of Program Assessment Workshops. Dallas, TX, 2019
- DrainMod, Florida Section-American Society of Agricultural Engineers. Continuing Education. Jensen Beach, Florida, 2018
- Pump Station Design, Florida Section-American Society of Agricultural Engineers. Continuing Education. Jupiter Beach, Florida, 2017
- ABET Program Evaluator Training, Accreditation Board for Engineering and Technology. Baltimore, MD, 2015.
- Status of TMDL and BMP Regulations, Florida Section-American Society of Agricultural Engineers. Continuing Education. Ponte Vedra Beach, Florida, 2015
- Erosion Control, Florida Section-American Society of Agricultural Engineers. Continuing Education. St. Augustine, Florida, 2013
- Android Apps for Agriculture, American Society of Agricultural Engineers. Continuing Education. Dallas, Texas, 2012
- UF/IFAS Teachers' College, 2012
- Center Pivot Irrigation, Florida Section-American Society of Agricultural Engineers. Continuing Education. Naples, Florida, 2011
- Capstone Design, American Society of Agricultural Engineers. Continuing Education. Louisville, Kentucky, 2011