

ONE-PAGE SUMMARY
ELIZABETH GUERTAL, ROWE ENDOWED PROFESSOR, CSES, AUBURN UNIVERSITY.

EDUCATION: B.S. Agriculture. 1984. The Ohio State University; M.S. Soil Science. 1988. The Ohio State University. Ph.D. Soil Science. 1993. Oklahoma State University.

EMPLOYMENT

1984 to 1988. Graduate Student Teaching Assistant, The Ohio State University, Dept. of Agronomy
 1988 to 1993. Graduate Research Fellow. Oklahoma State University.
 1993 to 2017: All at Auburn University, AL: Assistant Professor, Soil Fertility (93 to 98), Associate Professor, Soil Fertility (98 to 00), Alumni Associate Professor (00 to 03), Soil Fertility, Alumni Professor (03 to 06), Soil Fertility, and, Professor (06 to 2017), Soil Fertility, Rowe Endowed Professor (2017 – present)

CURRENT BUDGETED DUTIES: 50% Teaching, 50% Research.

SELECTED HONORS AND AWARDS

1. Outstanding Instructor in the Dept. of Agronomy and Soils, Auburn University, 1995, 2001, 2004.
2. Auburn University Leischuck Endowed Presidential Award for Excellence in Teaching, 2010.
3. Awarded ‘Alumni Associate Professor’ status, 2000, Auburn University. 5-year title.
4. Fellow, American Society of Agronomy, 2009.
5. Fulbright Fellowship, University of Mauritius, 2009-2010.
6. Fellow, Crop Science Society of America, 2011.
7. Fellow, Soil Science Society of America, 2013.
8. Outstanding Graduate Advisor, Auburn University, 2016.

TEACHING – Courses taught each year (various semesters) for the past four years:

AGRN 3150/3153 – Introductory Turf (distance and on campus), AGRN 2040 – Soil Science, AGRN 4920 – Senior Seminar, AGRN 3920 – Internship, WILD 1100 – Wildlife Food Plot Management (co-taught with G. Karns), AGRN 5020/6020 – Soil Nutrient Management, CSES 1010 – Soils and Life.

ENGAGEMENT – Give, on average, 12 workshops or seminars in the general area of turfgrass management, per year. Invited speaker at turfgrass meetings in 33 states, and in England, Vietnam, Philippines, Thailand, Argentina, Mexico, Cuba, Mauritius, China, Japan, Canada, and Germany.

GRADUATE STUDENT TRAINING (1993 to present):

Major Advisor				Committee Member			
Completed		In Progress		Completed		In Progress	
MS	PhD	MS	PhD	MS	PhD	MS	PhD
20	2	3	0	17	14	3	1

GRANT ACTIVITY: Total grant funding as Senior (or sole) PI (1993-2017): \$2.6 million, Total as Junior PI: 1.8 million. Co-author on 6 invention disclosures/patents.

PUBLICATIONS: Books or book chapters: 5; Refereed journal articles: 65; Abstracts: 153; Trade publications/articles: 78; Webinars: 28.

Example University Service:

University Promotion & Tenure Committee, 2006-2009. Appeals committee, 2010, 2013.
 University Committee on Intercollegiate Athletics, 2004-2009.
 Lead writer, Self-study document for the NCAA 10-year review of the AU Athletic Dept., 2006

Example Professional Society Service (that not listed previously)

Chair, Division C-5 (Turfgrass Science), Crop Science Society of America, 2006
 Associate Editor, Division S-8, Soil Science Society of America Journal, 1996 – 2003; Soils, Agronomy Journal, 1995-1999
 Associate Editor, Crop Science, 2002 – 2007, Technical Editor, Crop Science, 2007 – 2013.
 Panel Manager, USDA-ARS Soils and Soil Biology Panel, 2002.
 Editor-in-Chief, All Agronomy publications, American Society of Agronomy, 2014-present.
 President-Elect, Crop Science Society of America (CSSA), 2019

9-Page Vitae
ELIZABETH GUERTAL
ROWE ENDOWED PROFESSOR
Crop, Soil and Environmental Sciences (formerly Agronomy & Soils)
AUBURN UNIVERSITY, AL 36849
Twitter: @AUTurfFert

EDUCATION

B.S. Agriculture. 1984. The Ohio State University.
M.S. Soil Science. 1988. The Ohio State University.
Ph.D. Soil Science. 1993. Oklahoma State University.

EMPLOYMENT

1981 to 1984. Student Employee, The Ohio State University, Department of Agronomy.

1984 to 1988. Graduate Student Teaching Assistant, The Ohio State University, Dept. of Agronomy. Served as Teaching Assistant for laboratory sections of Crop Management, Forage Crop Management, Weed Science and Introductory Soil Science.

1988 to 1993. Graduate Research Fellow. Oklahoma State University. Conducted research in the area of spatial variability of soil test values throughout cropped landscapes.

1990 to 1992. Lecturer, Soil Conservation. Oklahoma State University. Taught two semesters of lecture and laboratories for Soil & Water Conservation.

1993 to 1998. Assistant Professor, Soil Fertility, Auburn University.
1998 to 2000. Associate Professor, Soil Fertility, Auburn University.
2000 to 2003. Alumni Associate Professor, Turfgrass Soil Fertility, Auburn University.
2003 to 2006. Alumni Professor, Turfgrass Soil Fertility, Auburn University.
2006 to present: Professor, Turfgrass Soil Fertility, Auburn University.

CURRENT ASSIGNED DUTIES

1993 to 1995	1996 to present
30% Teaching	50% Teaching
70% Research	50% Research
0% Extension	

HONORS AND AWARDS

1. Outstanding Instructor in the Dept. of Agronomy and Soils, Auburn University, 1995, 2001, 2004.
2. Novartis Award in Agronomy for outstanding achievement in teaching and research, American Society of Agronomy, 1997.
3. Outstanding Alumni Award (Young Careerist) - Department Horticulture and Crop Science, The Ohio State University, 1996.

4. Outstanding Reviewer for the Journal of Environmental Quality, 1997.
5. Young Professional Achievement Award, College of Food, Agricultural and Environmental Sciences Alumni Society, The Ohio State University, 1998.
6. Auburn Alumni Association Undergraduate Teaching Excellence Award, 1998.
7. Faculty Honoree (one of 8 from the University), Auburn University Camp War Eagle, 1999.
8. Omicron Delta Kappa 'Favorite Faculty', 1999.
9. Awarded 'Alumni Associate Professor' status, 2000, Auburn University.
10. Outstanding Undergraduate Advisor in the College of Agriculture, 2001.
11. Fellow, American Society of Agronomy, 2009.
12. Fulbright Fellowship, University of Mauritius, 2009-2010.
13. Outstanding Instructor, Auburn University College of Agriculture, 2009.
14. Auburn University Leischuck Endowed Presidential Award for Excellence in Teaching, 2010.
15. Fellow, Crop Science Society of America, 2011.
16. Selected as Master of Ceremonies, Auburn University Spring Commencement, May 6th, 2012.
17. Outstanding Undergraduate Advisor, Auburn University College of Agriculture, 2012.
18. Fellow, Soil Science Society of America, 2013.
19. Selected as the 2013 winner of the Sports Turf Managers Association's (STMA) William H. Daniels Award, given annually to the outstanding educator in Sports Turf.
20. Outstanding Reviewer, Journal of Natural Resources Education, 2014.
21. Turf and Ornamental Communicators Association (TOCA), 2015. Award of Merit for my regular monthly column in Golf Course management magazine.
22. Awarded Outstanding Graduate Advisor, Auburn University Graduate School, 2016.
23. Elected incoming President (2019), Crop Science Society of America.
24. Fulbright Fellowship, Uruguay, 2018.
25. Selected as the Rowe Endowed Professor, College of Agriculture, 2017.

SCHOLARLY CONTRIBUTIONS

TEACHING

Courses taught each semester for the past five years:

Year	Quarter/Semester	Course	Lecture Hrs	Lab Hours/week	Enrollment
2013	Summer	AGRN 3153	distance		12
2013	Fall	AGRN 3150	3	4	32
2013	Fall (co-teach)	WILD 1100	2	0	53
2014	Spring	AGRN 5020/6020	3	0	35
2014	Fall (co-teach)	WILD 1100	2	0	55
2014	Fall	AGRN 3150	3	4	38
2015	Fall (co-teach)	AGRN 3150	3	4	45
2015	Fall	WILD 1100	2	0	42
2015	Spring	AGRN 5020/6020	3	0	47
2016	Spring	AGRN 5020/6020	3	0	42
2016	Spring	AGRN 5180/6180	3	0	19
2016	Fall	AGRN 2040	3	4	45
2016	Spring	AGRN 5020/6020	3	0	42
All Years	Every Semester	AGRN 3920	0	0	~ 8 - 12

AGRN 3150/3153 - Introductory Turf Mng, AGRN 3920 – Internships, WILD 1100 – Wildlife Food Plot Management (co-taught with G. Karns or S. Ditchkoff); AGRN 5020/6020/6023 – Soil Fertility, AGRN 5180/6180 – Athletic Field Management. Also responsible for AGRN 3920 – Student Internships in each semester (~4 to 6 students). Also team teach Advanced Turf management (Fall each year).

Graduate students for whom Guertal was major professor whose work has been completed (past 5 years):

Caleb Bristow, M.S., Agronomy, 2012 (co-advisor). Employed by Alabama Peanut Producers, Dothan, AL.
Phil Bruner, M.S., Agronomy, 2013 Employed by Dow AgriSciences
Patrick Conard, M.S., Agronomy, 2013 Employed by Wayne's Environmental
Lauren Alex James (nee Smith), 2014 Employed by Auburn University
Said Hamido, PhD (co-advisor), 2014 Employed by University of Florida
Baoxin Chang, MS, 2016 PhD student, Texas A&M
Zack Ogles, PhD, 2016 Research Director, Tessengerlo Kennerly
Qian Chen, MS, 2017 Student Intern, IFDC

Total graduate students for whom Guertal served as Chair: 26

Graduate students whose work has been completed for whom Guertal was a committee member: (Current career is listed after degree) (past 5 years).

2017. Jacob Williams, MS, Crop, Soil and Environmental Sciences.
2017. Rui Yang, PhD, Crop, Soil and Environmental Sciences – Post Doc – Univ. Idaho.
2015. Philipe Aldehair, PhD, Agronomy & Soils – Research Scientist – Shaw Industries.
2015. Ramandeep Singh, MS, Biosystems Engineering – PhD student, Univ. Illinois.
2014. Richard Pelham, Master Education – Agriscience teacher, Sylacauga schools
2014. Anna Stallings, MS, Crop, Soil and Environmental Sciences – Biology teacher, Kentucky
2014. Murphy Coy, MS, Entomology – PhD student – Entomology, Auburn University.
2014. Kelsy Hogenauer, MS, Crop, Soil and Environmental Science – PhD student, Univ. Arkansas.
2014. Zach Ogles, MS, Horticulture – graduate student.
2013. Jay McCurdy, PhD, Crop, Soil and Environmental Science – Assistant Professor, MSU
2013. Audrey Gamble, MS, Crop, Soil and Environmental Science – Assistant Professor, Auburn.
2012. Jing Yi, MS, Agricultural Economics – PhD student, Michigan State
2012. Jarrod Hoyle, PhD, Agronomy & Soils –Assistant Professor, Kansas State.

Total graduate student for whom Guertal served on the committee: 40

Graduate students for whom Guertal currently is major advisor:

Noah Hull, MS.
Sara Smelser (distance MS)
Joe Taylor (distance MS)

Graduate students on whose committees Guertal is currently serving as a member:

Philip Burras, distance MS, Agronomy & Soils
Murphy Coy, Entomology and Plant Pathology, PhD

Contributions to undergraduate teaching:

Talks and presentations directly focused on undergraduates and undergraduate recruiting at Auburn University.

Reoccurring activities related to undergraduates:

- Advisor for approximately 22 undergraduates enrolled in the Turfgrass Management track in Agronomy and Soils. I am responsible for helping these students with their schedules, arranging and

tracking their summer internships and checking that all course requirements are met. The College of Agriculture does not have general academic advisors for our students - faculty serve as their primary advisor. I meet with each student at least once per semester.

- Co-advisor of the Auburn student chapter of the Golf Course Superintendents Association of America, 1999- present. As co-advisor (with Dave Han) we take 8- 12 students to the annual meeting of the Golf Course Superintendents Association meeting each year.
- Presented recruiting talks about the College of Agriculture at Ag. Career Day at the Chilton Area Horticulture Substation, 1995, 1996 and 1999, 2003. Presented College of Agriculture recruiting talks at Lineville, AL, in 2002 and at Ag. Career Day at the Headland Substation, 2004. Presented recruiting talks about the College at Wadley, AL, 2005 and in Auburn, AL., 2006 and 2007. Recruiting talks at Wallace State, Dothan, 2013. I usually participate in at least 1 College of Agriculture recruiting talk per year.
- Established history with the AU Honors College, including advising three different undergraduate research Fellows, teaching the Honors College Book Reading Class, Fall semester, 2013, and serving as a guest lecturer on the topic 'Turfgrass Research Techniques' for the AU Honors College Lyceum, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013.

Example specific activities directly related to AU undergraduate education:

Advisor of the College of Agriculture's Ag Council, 2008-2010. This is the student group that consists of the President and one representative from every agriculturally-based club on campus.

Junior Advisor to Ag. Ambassadors, the College of Agriculture's student representatives, 1997, Senior Advisor, 1998 -1999.

Chair, Auburn University Undergraduate Grievance Committee, 2015-2016.

Member, Auburn University Student Retention Committee, 2009-2011. Chair of that committee in 2012.

Member, Auburn University Interdisciplinary Degree Program Committee, 2009-2011.

Departmental Review Committees on which Guertal served as a Committee Member:

Member, Program Review Team for the Department of Horticulture, University of Minnesota, 2017.

Member, Academic Program Review Team, 2012 for the Auburn University Department of Geology.

Member, Academic Program Review Team, 2008 for the Auburn University Department of Philosophy (and Religious Studies).

Member of the external review team for the Crop Science department, North Carolina State University, August, 2011.

Member of the external review team for the Crop, Soil and Environmental Sciences department, University of Arkansas, February, 2010. Specifically, I was the member of the team who evaluated undergraduate curricula.

Member, Academic Program Review Team, University of Kentucky Turfgrass Program, Lexington, KY, Jan 8-10th, 2008.

Activities through University Outreach and Extension (Guertal does not have a budgeted state Extension appointment):

Example presentations in Alabama (I give an average of 5 to 6 talks in Alabama each year):

Invited speaker for the 'AU Talks' research series, Sept 16th, 2016.

Regular speaker throughout the state of Alabama as a part of the Alabama Turfgrass Association's 'Road Show' series, January through March, 2014. (around 5 locations throughout the state).

Developed and participated in the 'Science of Sports' clinic for 6th graders, AU Athletic Department, April 8th, 2013 and 2014.

Two presentations on 'Turfgrass Fertilizers and Water Quality' at various spring dates to Lake Martin homeowners, 2012. March 24th and April 26th, 2012.

Best Management for Erosion Control. Clear Water Alabama, Birmingham. August 23rd, 2011.

'Athletic Field Management' February 20th, 2009. Participated in day-long short course for high school field managers, Prattville, AL.

Participated in the Chilton Home and Grounds Expo by giving short presentations on 'Alabama Lawns', Chilton, AL, July 2nd, 2008.

Gave talk on 'Vegetation Establishment' at the Annual Meeting of the Alabama Vegetation Management Society, Tuscaloosa, AL., Feb 26th, 2008.

Gave presentation on Agronomy to Wrights Mill Road 4th graders at Career Days, April 19th, 2007.

Gave talk on 'Fertility and Soil Testing' to the Alabama School IPM Coalition Meeting, July 18th, 2006, Auburn, AL.

Presentation of Pasture and Arena Footing Management for the 2003 Alabama Horse Fair, January 26th, 2003, Montgomery, AL.

Example Regional or National Presentations (I give an average of 4 to 5 presentations each year):

Taught 3 short courses and hosted one seminar panel at the Golf Course Superintendents Annual meeting (GCSAA), CA, Feb 8-11, 2016. Topics were nitrogen and soil management.

Talks on 'Poa management', 'Compaction' and 'Thatch Control', Minnesota GCSAA, Dec 2-3rd, 2015. USGA Mini-research meeting. 'Update on our funded nitrogen research' June 4th, 2014. Atlanta, GA.

Gave invited presentation at the Everglades GCSAA meeting, Naples, FL, April 18th, 2013.

Presentation of 'Fluid Fertilizers for Sod Production'. Fluid Fertilizer Conference, AZ, Feb 20th, 2012.

Gave two presentations of 'Deep Tine Aerification – Going Deep' at the Sports Turf Managers Association National Show, Jan 14-16th, 2011, Long Beach, CA.

Talk on 'Maximizing Fertilizer Efficiency' at the Landscape and Equipment Expo, Louisville, KY, Oct 23rd, 2008.

Presentations on Bioproducts and Organic Fertilizers for Golf Courses and Basics of Soil Science to the Idaho Golf Course Superintendents Association, Sept 28th - 30th, 2003.

Gave presentation at the SEC Sports Turf Conference, Oxford, Mississippi, July 5th-7th, 2001.

Examples is Web-Based Interactive Instruction – a total of 24 have been taught)

Taught webinar on aerification to Spanish greenkeepers association, 2016.

Webinar on 'myths of soil fertility' GCSAA. April 9th., 2015.

Webinar on 'Fertilization for protected water quality' TurfNet, Feb 13th, 2014.

Taught on-line Webinar course on 'How to Read Your Soils Report' to the ValleyCrest golf course superintendents, Weds, March 19th, 2008.

RESEARCH/CREATIVE WORK

Example Books or Book Chapters (5 in total)

Guertal, E.A. 2012. Carbon Sequestration in Urban Landscapes. In: Carbon Sequestration in Urban Ecosystems. R. Lal and B. Augustin, eds. Springer.

Frank, K.W. and E.A. Guertal. 2013. Nitrogen research in turfgrass. In: Stier, J.C., B.P. Horgan and S.A. Bonos (eds). Turfgrass: Biology, Use and management. ASA/CSSA/SSSA Agronomy Monograph No. 56.

Frank, K.W. and E.A. Guertal. 2013. Potassium and phosphorus research in turfgrass. In: Stier, J.C., B.P. Horgan and S.A. Bonos (eds). Turfgrass: Biology, Use and management. ASA/CSSA/SSSA Agronomy Monograph No. 56.

Example Articles in refereed journals (65 in total):

Footnotes: # - indicates a student for whom Guertal was major advisor or co-advisor; ^ - indicates a student for whom Guertal was a committee member.

#Hamido, S.A., C.W. Wood and E.A. Guertal. 2016. Carbon dioxide flux from bermudagrass turf as affected by nitrogen rate. *Agron. J.* 108:1-7.

#C. Z. Ogles, E. A. Guertal and D. B. Weaver. 2016. Edamame cultivar evaluation in central Alabama. *Agron. J.* 108: 6: 2371-2378.

^James D. McCurdy, J. Scott McElroy, and Elizabeth A. Guertal. 2013. White clover (*Trifolium repens*) establishment within dormant bermudagrass turf: cultural considerations, establishment timing, seeding rate, and cool-season companion grass species. *HortScience* 48:1556-1561.

Guertal, E.A. and #B.L. Green. 2012. Evaluation of organic fertilizer sources for southeastern (USA) turfgrass maintenance. *Acta Agriculturae Scandinavica Section B. Soil and Plant Sci.* 62:1-9.

Guertal, E.A. and #C.A. Hicks. 2009. Nitrogen source and rate effects on the establishment of TifSport and Tifway hybrid bermudagrass. *Crop Sci.* 49:690-695.

#Knight, E., E.A. Guertal, and C.W. Wood. 2007. Mowing and N Source effects on ammonia volatilization from putting greens. *Crop Sci.* 47:1628-1634.

#Hollingsworth, B.S., E.A. Guertal, and R.H. Walker, 2005. Cultural management and nitrogen source effects on ultradwarf bermudagrass cultivars. *Crop Sci.* 45:486-493.

Guertal, E.A. and J.N. Shaw. 2004. Multispectral radiometer signatures for stress evaluation in compacted bermudagrass turf. *HortScience* 39:403-407.

Examples Proceedings/Technical Papers – Refereed (12 in total)

Guertal, E.A. and D.Y. Han. 2009. Footing assessment for equine event courses. *International Turfgrass Society Research Journal.* 11:365-373.

Guertal, E.A., Holt, G and E. van Santen. 2009. Cotton-based hydromulches for seeded bermudagrass establishment. Proceedings of the National Cotton Conference Beltwide Cotton Conference, Jan 5-8th, San Antonio, TX. CDROM.

Waltz, F.C., Jr. and E.A. Guertal. 2008. The effects of incorporating inorganic amendments into native soil putting greens. Proceedings of the 1st European Turfgrass Society Conference. 19-20 May, Pisa, Italy.

Example Abstracts (153 in total):

Footnotes: # - indicates a student for whom Guertal was major advisor or co-advisor; ^ - indicates a student for whom Guertal was a committee member.

Phosphite in Soil and Ryegrass. 2015. Baoxin Chang#, Auburn University; Elizabeth A. Guertal, Auburn University. ASA/CSSA/SSSA Abstracts.

Foliar K for Cotton. 2015. E.A. Guertal and D.B. Weaver. ASA Southern Branch Abstracts.

Potassium sources for bentgrass putting greens. 2014. E.A. Guertal. European Turfgrass Meetings. Stuggart, Germany, June.

Guertal, E.A. and D.Y. Han. 2012. Nitrogen rate and timing for hybrid bermudagrass lawns. ASA/CSSA/SSSA Abstracts.

Weaver, D. and E.A. Guertal. 2012. Incorporation of 'writing in the curriculum' into Agronomy courses. ASA/CSSA/SSSA Abstracts.

#Bristow, C.L., J.S. McElroy, and E.A. Guertal. 2011. *Poa annua* response to zinc sulfate at three different pH levels. S. Weed Science Soc. Abstracts.

Guertal, E.A. and #G.W. Rainey. 2009. Aerification tine effects on hybrid bermudagrass athletic fields. ASA/SSSA/CSSA Abstract.

Guertal, E.A., J.B. Hess, J.P. Blake, S.F. Bilgili, R.A. Norton and K.S. Macklin. 2004. Poultry litter sand as a source for putting green construction. ASA/CSSA/SSSA Abstracts.

Example other research/creative contributions (a total of 16 activities):

2013. Turfgrass/soils expert for the US Corp of Engineers Committee to review the technical documents for the Levee Stabilization program, Corps of Engineers, Louisiana. I was one of 4 experts to serve on this appointed panel.

Member, WSS Turf Racing Surface Committee (Horse Racing - The Jockey Club), 2008-2014.

Director for the 18-member NRI grant review panel for Soils and Soil Biology Program, May 21st-25th, Washington, D.C., 2001.

Member of the national ASA-CCA Exam and Procedures Committee, August 14-15th, 2001, Indianapolis, IN. Continued to serve on this committee through 2003, assumed the role of Chair in August, 2004-2008.

Example Grants and Contracts (Does not include teaching grants previously listed) (If a PI name is not listed that funding is 100% to Guertal):

R. Dean (PI) and E.A. Guertal. 2016. Auburn University 'Launch' Program funding to evaluate in-field sensors for moisture: 35,000.00.

Auburn University Outreach 2015. (Outreach Program Grant for edamame research) 12,500.00

Scotts fertilizers. \$14,000. 2013. Various field trials and ammonia volatilization research.

E.A. Guertal. 2012. Hydroseeding with cotton mulch. Cotton Inc. 16,000.00

Guertal, E.A. and S. McElroy. 2011. IPM strategies for annual bluegrass control. USEPA IPM program. 50,000.00.

Dougherty, W. Zech, E. Guertal, C. LeBleu and E. Norton. 2010. Maintaining vegetation for long-term erosion control on disturbed slopes. Alabama Department of Transportation. 42,050.

Guertal, E.A. 2009. Agronomic establishment techniques for highway construction. Alabama Department of Transportation. \$86,000.00.

Guertal, E. Feng, Y. and R. Patillo. Auburn University Athletic Dept. \$10,000. 2006. Sampling procedures for the determination of antibiotic-resistant strains of streptomycetes.

E.A. Guertal, R.H. Walker and D.Y. Han. 2005. USDA Turfgrass Line Item (part of USDA Turf and Ornamental Line Item). \$88,864.

R.H. Walker, E.A. Guertal and R. Rodrigo-Kabana. 2005. Integrated pest management as replacement for methyl bromide in a centipedegrass-based sod rotation system. USDA. \$400,000.

R. Rodrigo-Kabana and E.A. Guertal. 2004. Evaluation of fumigants for use in crops for soil disinfestations. USDA/ARS. \$23,953.

E.A. Guertal. 2000. Phosphorus placement for USGA putting greens. United States Golf Association. \$30,000.00

Example International Activities (a total of 37 activities)

2018. Awarded Fulbright Fellowship, Uruguay.

2009-present. Work with and have signed university-level agreements with various agricultural entities in Cuba (University of Havana – Ag College, CENSA). We continue to have scientific exchange and student trips to Cuba, and have hosted Cubans here at Auburn University as with the Soil Science Society of America (SSSA) at the 2015 Annual meetings in Minnesota.

Taught short course for turfgrass managers, Cuba, Nov 28-Dec 3rd, 2016.

Taught three seminars at the British Greenkeepers meetings, Harrogate, UK, Jan 18-21., 2016.

Mini-sabbatical at the Sports Turf Research Institute, Bingley, England. July 12th, 2014 to August 16th, 2014. Primary area was the evaluation of calibrated soil moisture sensors.

Part of on-going College of Ag/Building Science/Architecture trip to Haiti. Program is funded with the support of Gorrie Construction. May 12 – 16th, 2014. This project is on-going through 2016.

Traveled to China as part of our 3+2 program – student recruitment and program development. Chinese Agricultural University (CAU). 2013.

2010. Awarded Fulbright Fellowship, Mauritius. Taught Soil Science and Turfgrass Management and conducted turfgrass research at the University of Mauritius, August – Dec, 2010.

September, 2009. Spent 1 week in Argentina giving presentations for the Argentina Golf Association, and visiting polo fields.

SERVICE

Example University Service

University Senator – department representative, 2014 – 2016.

Chair, Provosts Commission on Women in Academic Careers, 2014.

University Faculty Welfare Committee, 2011-2012, Chair – 2013.

University Student Grievance Committee, 2014- present.

University Promotion & Tenure Committee, 2006-2009. Appeals committee, 2010, 2012.

University Committee on Intercollegiate Athletics, 2004-2009.

Lead writer, Self-study document for the NCAA 10-year review of the AU Athletic Dept., 2006

Example Professional Service

President Elect, Crop Science Society of America, 2019.

Chief Editor of all Agronomy publications, American Society of Agronomy, 2014 - 2017.

Associate Editor, Soils, Agronomy Journal, 1995-1999

Associate Editor, Division S-8, Soil Science Society of America Journal, 1996 – 2003

Associate Editor, Crop Science, 2002 - 2007

Technical Editor, Crop Science, 2007 – 2012.

Member, PPI J. Field Reed Scholarship Committee, American Society of Agronomy, 2010

Golden Opportunity Scholars Mentor, 2011.

Chair, Division C-5 (Turfgrass Science), Crop Science Society of America, 2006

Secretary/Treasurer, Southern Branch American Society of Agronomy, 1996-1997, Program Chair, 1998 and 1999, Vice President, Soils, 1999, President, 2000, Treasurer, 2001-present