

CURRICULUM VITAE

Don W. Edgar, Ph.D.

Agricultural and Extension Education Department
New Mexico State University
Gerald Thomas Hall #131 • Las Cruces, NM 88003
(575) 646-4511 Office Phone • (479) 263-6920 Cell Phone
dedgar@nmsu.edu Work Email, donwedgar@yahoo.com Personal Email

Professional Interests

Methods of Teaching: Theory and practice of learning and teaching in Agricultural Education.

Delivery Strategies: The union of instructional design and electronic communications technologies employed to facilitate learning, curriculum development and assessment.

Learner-Centered Instructional Design: Blending curricular design through a multitude of characteristics, processes, interactions, and delivery methods.

Education

<u>Bachelor of Science</u>	Agricultural Services & Development Tarleton State University – Stephenville, TX Conferred – December 1992
<u>Master of Science</u>	Agricultural Education Tarleton State University – Stephenville, TX Conferred – August 2003
<u>Doctorate of Philosophy</u>	Agriculture Education Texas A& M University – College Station, TX Conferred – May 2007

Academic Positions

Professor	New Mexico State University	07/01/2020 - present
[12 month: 75% Teaching / 20% Research / 5% Extension]		
Associate Professor	University of Georgia	08/2018 – 05/2020
[9 month: 75% Teaching / 25% Extension]		
Associate Professor	University of Arkansas	08/2013 – 05/2018
[9 month: 65% Teaching / 25% Research / 10% Service]		
Assistant Professor	University of Arkansas	08/2008 – 07/2013
[9 month: 75% Teaching / 15% Research / 10% Service]		
Assistant Professor	South Dakota State University	08/2007 – 05/2008
[9 month: 100% Teaching]		

Other professional employment:

Secondary Agricultural Education Instructor (Texas)	01/1993 – 12/2005
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ACHIEVEMENTS

Recognition and Outstanding Teaching Achievements

- 2020 Distinguished Teaching Award, Southern Region American Association of Agricultural Education
- 2017 North American Colleges and Teachers of Agriculture (NACTA) Teaching Award of Merit
- 2016 University of Arkansas Dale Bumpers College of Agricultural, Food, and Life Sciences (DBCAFLS) John White Award recipient
- 2015 Inductee into the University of Arkansas Teaching Academy
- 2013 University of Arkansas DBCAFLS Alumni Society Advising Award
- 2013 North American Colleges and Teacher of Agriculture (NACTA) Teacher Fellow
- 2013 Nominated for the USDA Excellence in College and University Teaching in the Food and Agricultural Sciences New Teacher Award (UofA DBCAFLS).
- 2012 Teaching Award Winner University of Arkansas Gamma Sigma Delta

Recognitions and Outstanding Scholarly Achievements

- 2018 Outstanding Poster Presentation, American Association of Agricultural Education, National Conference.
- 2016 – 2017 University of Arkansas Gamma Sigma Delta President
- 2014 – 2016 Editor, *Journal of Southern Region Agricultural Education*
- 2014 Outstanding Early Career Award for the American Association of Agricultural Education – Winner
- 2014 Outstanding Early Career Award for the Southern Region of American Association of Agricultural Education – Winner
- 2014 Outstanding Research Poster (3rd Place), Southern Association of Agricultural Scientists Agricultural Communication.
- 2013 Outstanding Research Manuscript (1st Place), 31st Annual National Ag Mechanics Professional Development Seminar.
- 2012 Outstanding Research Manuscript (1st Place), the Annual National Ag Mechanics Professional Development Seminar, Indianapolis, IN.
- 2012 Paper Presentation – 2nd Runner-up Research Presentation Award – Faculty Division, Southern Region Conference of the American Association of Agricultural Education, Birmingham, AL.
- 2011 Outstanding Research Presentation– Faculty Division (2nd Runner-up) *Animation: Friend or Foe?* Southern Region Conference of the American Association of Agricultural Education, Corpus Christi, TX.

2010 Research Poster – 3rd Place – *Biodiesel education: Effects on high school students' knowledge and perceptions*. National American Association for Agricultural Education Conference, Omaha, NE.

2009 Outstanding Research Presentation– Faculty Division – 1st – *Creating International Agricultural Experiences in the Virtual World: An Exploration of Second Life®*. Association for International Agricultural and Extension Education, Puerto Rico, USA.

2009 Research Poster –2nd Place– *Networks of Communication and Knowledge Transfer Among Students in a College of Agriculture Introductory Course*. National American Association for Agricultural Education Research Conference, Louisville, KY.

2008 Outstanding Research Presentation– Faculty Division –2nd Runner-up. *Exploring interaction between student teachers during the student teaching experience*. National American Association for Agricultural Education Research Conference, Reno, NV.

2008 Outstanding Research Presentation – Faculty Division – 1st Place Paper Presentation. *Structured communication: Effects on student teacher – cooperating teacher relationships*. Southern Region Agricultural Education Research Conference, Dallas, TX.

Grants Received [Total funds: \$4,465,463; Edgar (%) \$301,699.50]

2020: Co-PI, USDA NIFA BFRDP EE: Transitioning Land to a New Generation: Preparing Trainers to Help Facilitate Transfer.

2019: Co-PI, FW-HTF-RL: Cultivating Capacities for Responsible Hacking, Creating, and Making the Future of Work in Agriculture. Tidwell, J.H., **Edgar, D.W.**, Grubert, E., Sadakar, S., & Yopp, A. Funded by the National Science Foundation at \$1,996,465. Edgar's portion \$99,824.

2016: Co-PI, TEAL: Teaching Enhancement through Academic Laboratories. Shoulders, C.W., **Edgar, D.W.**, Johnson, D.M., Graham, D.L., & Wardlow, G.W. Funded by USDA – MSP Scholars. Grant funding level \$144,085 and Edgar's portion \$19,800.

2015: Sub-contract, **Edgar, D.W.** Farmland for the Next Generation. Funded by USDA BFRDP. Total project funds \$669,796. Edgar's portion: \$22,550.

2014: Co-PI, BP4 Project: Building Partnerships, Projects, and Professional Development. Lench, E.K., Pickard, J., Paulson, T., Shoulders, C.W., **Edgar, D.W.**, Johnson, D.M., Beck, M., Glanz, M., Colletti, J., & Rajan, C. Funded by USDA SPECA. Grant funding level \$265,330 and Edgar's portion \$13,231.

Co-PI, Visual Communications on the Road in Agricultural Communication into Arkansas High School Curriculum. Edgar, L.D., **Edgar, D.W.**, & Miller, J.D. Funded by USDA SPECA. Grant funding level \$44,953 and Edgar's portion \$4,480.

2013: PI, **Edgar, D.W.** Welding Education Grant – Level II by Lincoln Electric Company. Edgar's portion: 100% (\$47,000).

Co-PI, Fueling Diesel Engines with a Pyrolytic Bio-Oil and Diesel Emulsions: Feasibility, Performance, Thermal Efficiency, and Oxides of Nitrogen (NO_x) Emissions. Carrier, J., Sadaka, S., Johnson, D.M., & **Edgar, D.W.** U.S. Department of Energy. Total sub-contract project funds \$82,800, Edgar's portion: \$13,890.

2012: Co-PI, Phase II Co-PI, *Visual Communication on the Road in Arkansas*: Phase II: Integration of Agricultural Communications into Arkansas High School Curriculum. Edgar, L.D., **Edgar, D.W.**, & Cox, C. Funded by USDA NIFA SPECA Grant Program (2012-2013). Total project funds \$44,805. Edgar's portion: 10% (\$4,480.50).

Co-PI, Increasing the Global Visibility and Marketability of UA Agriculture Students: An Intensive Internship Program with the Institute for Agricultural and Fisheries Research and the University of Ghent. Edgar, L.D. & **Edgar, D.W.** Total project funds \$7,000 Edgar's portion: \$2,000.

2011: PI, *Arkansas Biodiesel Promotion and Education Project: Phase III*. **Edgar, D.W.**, Johnson, D.M., & Wardlow, G.W. Funded by the Soybean Promotion Board – Industry (2011-2013); Total project funds \$62,964. Edgar's portion: 10% (\$6,000).

2010: Co-PI, *Visual Communication on the Road in Arkansas: Video and Photo Creative Projects to Promote Agriculture*. Edgar, L.D., **Edgar, D.W.**, & Miller, J. Funded by USDA NIFA SPECA Grant Program (2010- 011). Total project funds \$33,539. Edgar's portion: 3% (\$3,000.00).

2009: Co-PI, *The Educational Effectiveness of Utilizing Second Life (SL) in Teaching Graduate-level Agricultural Crisis Communications*. Edgar, L.D. & **Edgar D.W.** Funded by USDA Higher Education Challenge Grant Program – a subcontract under Texas A&M University – Federal (2009-2012); Total project funds \$460,320. Edgar's portion: 6% (\$27,619).

PI, *Arkansas Biodiesel Promotion and Education Project: Phase II*. **Edgar, D.W.**, Johnson, D.M., & Wardlow, G.W. Funded by the Soybean Promotion Board – Industry (2009-2011); Total project funds \$28,150. Edgar's portion: 10% (\$6,000).

Co-PI, Midsouth/Southeast Bioenergy Consortium. Johnson, D.M., **Edgar, D.W.**, and Wardlow, G.W. Funded by Department of Energy (2009-2012); Total project funds \$40,000. Edgar's portion: 5% (\$8,000).

Contract Evaluation Services, EU-US Double Degree MS program in Rural Development and Agricultural Economics, U.S. Department of Education - P116J080034. **Edgar, D.W.** Total project funds \$500,000 Edgar's portion. \$20,000 (2008-2012).

2008: Co-PI, *Angus Productions Inc., Understanding the Readership a Four-Part Evaluation*. Edgar, L.D. & **Edgar, D.W.** Funded by Angus Productions, Inc. – Industry (2008-2009); Total project funds \$38,256. Edgar’s portion: 10% (\$3,825).

Grants Under Review

2020: Raising the Bar: Engaging Rural Communities in Powerful and Contextually Relevant STEM Experiences in Agriculture. USDA – NIFA, SPECA. \$297,751. Edgar’s portion: \$11,315.

SCHOLARLY ACTIVITIES

Publications

Dr. Edgar’s scholarly work has focused on curriculum design based on creating meaningful and engaged learning. As the lead author for the American Association for Agricultural Education National Research Agenda (2016 – 2020) Research Priority Area 4: Meaningful, Engaged Learning in All Environments, his focus has been on curriculum development and assessment. Additionally, his grantsmanship efforts and sponsored projects have developed his line of inquiry and resulted in additional published publications. Advisees or graduate student research assistants are denoted by an asterisk (*).

Books authored or co-authored

Hancock, J.P., **Edgar, D.W.**, Pate, M.L., Dyer, L.A., and Hoover, W.B. (2016). *Agricultural Mechanics and Technology Systems*. Goodheart-Willcox Publisher, Tinley Park, IL.

Chapters in books

Edgar, D.W., Retallick, M.S., & Jones, D.W. (2015). *Research Priority 4: Meaningful, Engaged Learning in All Environments*. American Association of Agricultural Education Research Priority Agenda.

Agricultural Mechanics and Technology Systems. Goodheart-Willcox Publisher, Tinley Park, IL.

Chapter 13 – Surveying, 25 pages

Chapter 33 – Internal Combustion Engines, 22 pages

Chapter 34 – Small Engine Maintenance and Repair, 20 pages

Chapter 35 – Drive Trains and Power Systems, 16 pages

Chapter 36 – Machinery, Maintenance and Management, 22 pages

Chapter 37 – Hydraulic and Pneumatic Power, 22 pages

*Each technical chapter included student activities, STEM aligned activities, and assessments. Additional electronic presentations and instructor handouts were developed and aligned to National Standards and Pathways.

Journal Articles (Career; $N = 36$ published) ($n = 3$, In Review; $n = 3$, In Press)

Journal Name	# of Articles Published	Acceptance Rate /Impact Factor
<i>Journal of Agricultural Education</i>	13	36%
<i>Journal of Applied Communications</i>	4	38%
<i>Journal of Southern Agricultural Education Research</i>	4	66%
<i>North American Colleges and Teachers of Agriculture</i>	3	63%
<i>Journal of Agricultural Systems, Technology, and Management</i>	3	50%
<i>Journal of International Agricultural and Extension Education</i>	3	21%
<i>Applied Turfgrass Science</i>	1	58%
<i>Journal of Applied Engineering in Agriculture</i>	2	1.48
<i>American Society of Agricultural and Biological Engineers</i>	1	1.12
<i>Sage Open</i>	1	0.60
<i>Journal of Leadership Education</i>	1	0.24

*Dobbins, C., **Edgar, D.W.**, Cox, C., & Edgar, L.E. (In Review). Perceptions of [State] agriculture county extension agents toward urban agriculture. *Journal of Agricultural Education*.

*Dees-Leek, B. & **Edgar, D.W.** (In Review). Analysis of networks in a college of agriculture course. *Journal of Human Sciences and Extension*. (Corresponding Author)

Lamm, K.W., *Holder, M., **Edgar, D.W.**, & Lamm, A.J. (In Review). Agricultural leadership development program participant personality and demographic characteristics: an empirical analysis. *Journal of Leadership Education*.

Edgar, D.W., SeEVERS, B., & Graham, D.L. (In Press). Factors that predict volunteer involvement in school based agricultural education programs. *Journal of Agricultural Education*. (Corresponding Author)

*Gates, H. R., Shoulders, C.W., Johnson, D. M., **Edgar, D. W.**, Blythe, J. (In Press). Agricultural Education and Secondary Education Teachers' Self-Efficacy and Professional Identity. *Journal of Agricultural Education*.

Edgar, D.W., Edgar, L.D., Graham, D.L., & Bailey, H. (In Press). Student and faculty perceptions of academic entitlement: A look at one southern land-grant university. *College Student Journal*. (Corresponding Author)

Yopp, A., **Edgar, D.W.**, & Croom, D.B. (2020). Technical In-Service Needs of Agriculture Teachers in Georgia by Career Pathway. *Journal of Agricultural Education*, 61(2), 1-19. <https://doi.org.10.5032/jae.2020.02001>

Lamm, K.W., Lamm, A.J., & **Edgar, D.W.** (2020). Scale development and validation: Methodology and recommendations. *Journal of International Agricultural and Extension Education* 27(2)24 - 35. doi: 10.5191/jiaee.2020.27224

Lamm, K.W., **Nguyen, N.P., **Edgar, D.W.**, Borron, A., & Lamm, A.J. (2019). Know thy self:

An examination between individual core self-evaluations and demographic characteristics among agricultural leadership development program participants. *Journal of Leadership Education* (18)4, 15 – 23. doi: 10.12806/V18/I4/R2

- *Kurtzo, F., Edgar, L.D., **Edgar, D.W.**, & Graham, D.L. (2019). Exploring Communication Tendencies of Program Facilitators. *Journal of Applied Communications*, 103(1), 1-19. doi: 10.4148/1051-0834.1415
- Lamm, K.W., Sheikh, E., & **Edgar, D.W.** (2019). Evaluating personality traits as a predictor of undergraduate goal setting. *Journal of Agricultural Education*, 60(2), 126-139. doi: 10.5032/jae.2019.02126
- Edgar, L.D., **Edgar, D.W.**, *Caillouet, O., & *Dobbins, C. (2018). A Survey to Determine international program growth areas and needs to guide a college of agricultural international program office. *Journal of International Agricultural & Extension Education*, 25(3), 96-110. doi: 10.5191/jiaee.2018.25307
- *Bolton, A., **Edgar, D.W.**, & Carter, V.A. (2018). Successful secondary agricultural programs outside the classroom: A view of champions. *Journal of Agricultural Education*, 59(2), 255-274. doi: 10.5032/jae.2018.02255 (Corresponding Author)
- *Hansen, M.J., Edgar, L.D., & **Edgar, D.W.** (2018). College of agricultural, food, and life sciences international education: Students' preferred location of travel and perceptions of barriers and benefits. *Journal of International Agricultural & Extension Education*, 25(1), 89-99. doi: 10.5191/jiaee.2018.25108
- *Hunt, C.H. & **Edgar, D.W.** (2017). Investigating structure communication between student teachers and cooperating teachers at multiple universities. *Journal of Southern Agricultural Research*, 59(1). Online at <http://jsaer.org/pdf/vol67Whole.pdf> (Corresponding Author)
- *Carroll, J.H., Davis, J.A., Johnson, D.M., **Edgar, D.W.**, & Graham, D.L. (2017). Effects of field speed and droplet size on herbicide coverage and efficacy. *American Society of Agricultural and Biological Engineers*, 60(4), 315-331.
- Shoulders, C.W., **Edgar, D.W.**, & *Bolton, A. (2016). Variability versus continuity: Student teachers' perceptions of two university supervision formats. *Journal of Agricultural Education*, 57(2), 173-183. doi:10.5032/jae.2016.02173.
- *Siebenmorgan, R.S., **Edgar, D.W.**, Johnson, D.M., & Carter, V.A. (2016). An evaluation of teaching methods based on cognitive achievement. *Journal of Agricultural Systems and Technology Management*, 27(1), 1-14. (Corresponding author)
- Johnson, D.M., **Edgar, D.W.**, Edgar, L.D., Pate, M.L., & Steffen, R.W. (2015). Biodiesel: Awareness, use, and perceptions of students at four U. S. universities. *NACTA Journal* 59(1), 54-62. (Corresponding author)

- *Pennington, K., *Calico, C., Edgar, L. D., **Edgar, D. W.**, & Johnson, D. M. (2015). Knowledge and perceptions of visual communications curriculum integrated into Arkansas secondary agricultural classrooms. *Journal of Agricultural Education* 56(2), 27-42. doi: 10.5032/jae.2015.02027 (Corresponding author)
- Murphrey, T.P., Rutherford, T.A., Doerfert, D.L., Edgar, L.D., & **Edgar, D.W.** (2014). An Examination of Usability of a Virtual Environment for Students Enrolled in a College of Agriculture. *Journal of Agricultural Education*, 55(4), 38-52. doi: 10.5032/jae.2014.04038
- *Calico, C., Edgar, L.D., **Edgar, D.W.**, & Johnson, D.M. (2014). Integration of agricultural communications curriculum in Arkansas secondary agricultural classrooms: A pilot study. *Journal of Applied Communications*, 98(4), 2-14.
- *Calico, C., Edgar, L.D., & **Edgar, D.W.** (2014). Knowledge and perceptions of agricultural communications pilot curriculum in Arkansas secondary agricultural classrooms. *Journal of Applied Communications*, 98(4) 15-27. doi: 10.4148/1051-0834.1090
- *Calico, C., Edgar, L.D., & **Edgar, D.W.** (2014). Students' perceptions of an agricultural communication lesson and an experiential learning activity in secondary agricultural education classrooms. *NACTA Journal*, 58(3), 196-201. (Corresponding author)
- Edgar, L.D., **Edgar, D.W.**, & Pennington, K. (2014). An assessment of visual communications curriculum in Arkansas secondary agricultural science. *NACTA Journal*, 58(3), 262-268.
- Johnson, D.M., **Edgar, D.W.**, Karcher, D.E., Richardson, M.D., & McCalla, J. (2014). Effect of petroleum diesel and biodiesel spills on turfgrass. *Applied Turfgrass Science*, 11(1). doi:10.2134/ATS-2013-0005-RS.
- *Sallee, C.S., **Edgar, D.W.**, & Johnson, D.M. (2013). Student perceptions of instructional methods towards alternative energy education. *Journal of Agricultural Education*, 54(2), 130-142. doi: 10.5032/jae.2013.02130 (Corresponding author)
- Johnson, D.M., Edgar, L.D., & **Edgar, D.W.** (2013). Consumer awareness, use, and perceptions of biodiesel. *Journal of Agricultural Systems, Technology, and Management*, 42, 23-35. (Corresponding author)
- Murphrey, T., Rutherford, T.A., Doerfert, D., Edgar, L.D., **Edgar, D.W.**, & Leggette, H. (2013). Chalkboards to virtual worlds: Technology's role in expanding the classroom to provide professional development and education for agricultural communicators. *Journal of Applied Communications*, 97(2), 23-35. doi: 10.4148/1051-0834.1116
- *Hunt, C.L., Johnson, D.M., & **Edgar, D.W.** (2013). NO_x emissions and performance of a compact diesel tractor fueled with emulsified and non-emulsified biodiesel. *Journal of Agricultural Systems, Technology, and Management*, 24, 12-22. (Corresponding author)

Edgar, D.W. (2012). Learning theories and historical events impacting instructional design in education: Recitation literacy towards extraction literacy practices. *Sage Open*, (3) 1-9. doi: 10.1177/12158244012462707

*Davis, J.A., Johnson, D.M., **Edgar, D.W.**, Wardlow, G.W., & Sadaka, S. (2012). NO_x emissions and performance of a single-cylinder diesel engine with emulsified and non-emulsified fuels. *American Society of Agricultural and Biological Engineers*, 28(2), 179-186. doi: 10.13031/2013.41340

Edgar, D.W., Roberts, T.G., & Murphy, T.H. (2011). Exploring relationships between teaching efficacy and student teacher – cooperating teacher relationships. *Journal of Agricultural Education*, 52(1), 9-18. doi: 10.5032/jae.2011.01009

*Sallee, C.W., *Davis, J.A., Johnson, D.M., **Edgar, D.W.**, & Wardlow, G.W. (2010). Effectiveness of a biodiesel education program for secondary students. *Journal of Applied Engineering in Agriculture*, 26(5), 937-941. (Corresponding author)

*Hudson, G.T., *Sallee, C.W., Johnson, D.M., Wardlow, G.W., **Edgar, D.W.**, & *Davis J.A. (2010). A mobile unit for demonstrating performance, efficiency, and emissions of biofueled engines. *Applied Engineering in Agriculture*, 26(3), 521-525. doi: 10.13031/2013.27172

Roberts, T.G., Murphy, T.H., & **Edgar, D.W.** (2009). Exploring interaction between student teachers during the student teaching experience. *Journal of Agricultural Education*, 51(1), 113-124. doi: 10.5032/jae.2010.01113

Edgar, D.W. & Edgar, L.D. (2009). Perceptions of master's students regarding Mexico and agricultural practices occurring in Chihuahua state. *Journal of Southern Agricultural Research*, 59(1), 47-58.

Edgar, D.W., Roberts, T.G., & Murphy, T.H. (2008). Structured communication: Effects of teaching efficacy of student teachers. *Journal of Agricultural Education*, 50(1), 33-44. doi: 10.5032/jae.2011.01009

Edgar, D.W., Roberts, T.G., & Murphy, T.H. (2008). Structured communication: Effects on student teacher – cooperating teacher relationships. *Journal of Southern Agricultural Education Research*, 58(1), 94-109.

Edgar, L.D., **Edgar, D.W.**, Briers, G.E., & Rutherford, T.A. (2008). Research themes, authors, and methodologies in the *Journal of Agricultural Education: A ten-year look*. *Journal of Southern Agricultural Education Research*, 58(1), 44 - 60.

Roberts, T.G., Mowen, D.L., **Edgar, D.W.**, Harlin, J.F., & Briers, G.E. (2007). Relationships between personality type and teaching efficacy of student teachers. *Journal of Agricultural Education*, 48(2), 92-102. doi: 10.5032/jae.2007.02092

Harlin, J.F., Roberts, T.G., Briers, G.E., Mowen, D.L., & **Edgar, D.W.** (2007). A longitudinal examination of teaching efficacy of agricultural science student teachers at four different institutions. *Journal of Agricultural Education*, 48(3), 78-90. doi: 10.5032/jae.2007.03078

*denotes graduate student author; ** denotes undergraduate student author

Bulletins/Reports

Projects and curriculum evaluation for the American Farmland Trust. Grant through USDA BFRDP (NIFA) (2016 – 2019).

Perceptions and Observations of European and U.S. Students Participating in a Double Degree MS program in Rural Development and Agricultural Economics (FPSIE) (2014).

Extension Risk Management Education Centers: *Analysis of Past Projects and Identification of Strategic Direction* (2011).

Other

Curriculum development for Lincoln Electric® Welding Company (sub-contract). Development included 14 individualized lesson plans and associated activities with laboratory assignments targeting secondary and post-secondary students (2014–2015). *Note – this work resulted in Arc Welding is SAFE When Done Properly illustrated handbook (54 pages, nationwide distribution to educational centers).

Creative contributions (N = 4)

Edgar, D.W., & Edgar, L.D. (2017). Telling our story through students: In and out of the Classroom. *The Agricultural Education Magazine*, 90(3), 5-6.

Edgar, D.W. (2014). Project based learning: Initiating food science at the secondary level with industry input. *The Agricultural Education Magazine*, 86(4), 26-27.

Edgar, D.W. & Edgar, L.D. (2009). Steps to put the “fun” back in fundraising. *The Agricultural Education Magazine*, 82(3), 11-12.

Edgar, D.W. (2008). Looking back I should have let go more. *The Agricultural Education Magazine*, 87(3), 5-7.

Convention papers/Proceedings (Career; N = 45) (published)

*Dobbins, C. E., **Edgar, D. W.**, Cox, C. K. Edgar, L. D., Graham, D. L., & Perez, A. G. (2019). Perceptions of Arkansas Agriculture County Extension Agents Toward Urban Agriculture. Southern Region of the American Association for Agricultural Education Conference, Louisville, KY.

- Lamm, K.W., Sheikh, E., & **Edgar, D.W.** (2019). *Undergraduate goal setting: Analyzing personality as a predictor*. Southern Region American Association for Agricultural Education Conference, Birmingham, AL.
- *Gates, H.R., Shoulders, C.W., Johnson, D.M., **Edgar, D.W.**, & Blythe, J. (2019). Preservice agricultural education and secondary education teachers' self-efficacy and professional identity. Southern Region American Association for Agricultural Education Conference, Birmingham, AL.
- Johnson, D.M. Shoulders, C.S., Graham, D.L., Wardlow, G.W., & **Edgar, D.W.** (2018). *Teaching enhancement through agricultural laboratories workshop: Effects on Self-efficacy and intent to teach agricultural sciences*. Southern Region of American Association of Agricultural Education, Jacksonville, FL.
- Shoulders, C.W., **Edgar, D.W.**, & *Bolton, A. (2016). *Variability versus continuity: Student teachers' perceptions of two university supervision formats*. Southern Region American Association of Agricultural Educators Research Conference, San Antonio, TX.
- Edgar, D.W.**, Johnson, D.M., Wardlow, G.W., & Carter, V. (2014). *Development of STEM-based curriculum for a university welding course*. Annual International Meeting of the American Society of Agricultural and Biological Engineers. Montreal, Quebec Canada.
- Edgar, L.D., **Edgar, D.W.**, Rutherford, T., Doerfert, D., & Murphrey, T. P. (2013). *Assessment of students' crisis communications skill increase based on classroom instruction and Second Life™ training*. Annual Conference of the National Association of Colleges and Teachers of Agriculture. (Refereed paper, abstract published in NACTA Journal, 57, Supplement 1, p. 71).
- Murphrey, T.P., Rutherford, T., Doerfert, D., Edgar, L.D., & **Edgar, D.W.** (2013). *Usability of a virtual world for education: Implications for teaching in colleges of agriculture*. Annual Conference of the National Association of Colleges and Teachers of Agriculture. (Refereed paper, abstract published in NACTA Journal, 57, Supplement 1, p. 61).
- Johnson, D.M., Edgar, L.D., & **Edgar, D.W.** (2013). *Student awareness, use, and perceptions of biodiesel: An international perspective*. Association for International Agricultural and Extension Education Annual Meeting, Dallas, TX.
- Edgar, L.D., **Edgar, D.W.**, Rutherford, T.A., Doerfert, D.L., & Murphrey, T. (2013). *An assessment of students' perceptions, knowledge, and skills based on crisis-related tasks and activities: A critical look at Second Life™ training*. Association for International Agricultural and Extension Education Annual Meeting, Dallas, TX.
- *Calico, C., Edgar, L.D., **Edgar, D.W.**, **Hogan, H., & *Northfell, A. (2013). *A needs assessment of agricultural communications curriculum and technology in Arkansas high schools*. Agricultural Communications Section of the Southern Association of Agricultural Scientists, Orlando, FL, Feb. 2-5, 2013.

*Hunt, B.A., Graham, D., **Edgar, D.W.**, & Edgar, L.D. (2013). *A comparison of lecture and cooperative learning*. Agricultural Education Section of the Southern Association of Agricultural Scientists, Orlando, FL, Feb. 2-5, 2013.

*Calico, C., Edgar, L.D., **Edgar, D.W.**, Johnson, D.M., & *Jernigan, H. (2012). *Knowledge and perceptions of agricultural communications pilot curriculum in Arkansas secondary agricultural classrooms*. Agricultural Education Section of the Southern Association of Agricultural Scientists, Dallas, TX.

Shoulders, C.W., Johnson, D.M., & **Edgar, D.W.** (2013). *A solar energy analysis station for renewable energy education*. Paper presented at the 2013 Annual International Meeting of the American Society of Agricultural and Biological Engineers.

Edgar, D.W., Johnson, D.M., Wardlow, G.W., & Carter, V. (2013). *Development of STEM-based curriculum for a university welding course*. Paper submitted for presentation at the 2014 Annual International Meeting of the American Society of Agricultural and Biological Engineers.

*Calico, C., Edgar, L. D., **Edgar, D.W.**, Johnson, D. M., & *Jernigan, H. (2012). *Knowledge and perceptions of agricultural communications pilot curriculum in Arkansas secondary agricultural classrooms*. Agricultural Education Section of the Southern Association of Agricultural Scientists, Dallas, TX.

Shoulders, C.W., Johnson, D.M. & **Edgar, D.W.** (2013). *A solar energy analysis station for renewable energy education*. Paper presented at the 2013 Annual International Meeting of the American Society of Agricultural and Biological Engineers.

Edgar, D.W., Johnson, D.M., Wardlow, G.W., & Carter, V. (2013). *Development of STEM-based curriculum for a university welding course*. Paper submitted for presentation at the 2014 Annual International Meeting of the American Society of Agricultural and Biological Engineers.

Johnson, D.M., **Edgar, D.W.**, & Edgar, L.D. (2012). *Awareness, use, and perceptions of biodiesel among students at three universities*. Abstract submitted for presentation at the 2012 Annual International Meeting of the American Society of Agricultural and Biological Engineers. Dallas, TX.

Johnson, D.M., & **Edgar, D.W.** (2012). *LEGO my tractor: Student learning through a model tractor pull*. Abstract submitted for presentation at the 2012 Annual International Meeting of the American Society of Agricultural and Biological Engineers. Dallas, TX.

Edgar, D. W., Johnson, D. M., & *Hunt, C. L. (2012). *Perceptions of community college students towards biofuels: The effects of different methodological approaches*. Paper presented at the 31st National Agricultural Mechanics Professional Development and Research Conference. October 28, 2012, Indianapolis, IN.

Edgar, L.D., **Edgar, D.W.**, Rutherford, T.A., Doerfert, D.L., & Murphrey, T. (2012). *An assessment of students' perceptions, knowledge, and skills based on crisis-related tasks and activities: A critical look at Second Life™ training*. Paper accepted for presentation at the 2013 Association for International Agricultural and Extension Education Annual Meeting, Dallas, TX.

Johnson, D.M., **Edgar, D.W.**, & Edgar, L.D. (2012). *Biodiesel: Awareness and perceptions of agriculture students at two universities*. Paper presented at the 2012 AAAE Southern Region Research Conference, Birmingham, AL. Feb. 4-7, 2012. *Distinguished Faculty Manuscript

*Davis, J.A., Johnson, D.M., **Edgar, D.W.**, Wardlow, G.W., & Sadaka, S. (2011). *NO_x emissions and performance of a single-cylinder diesel engine fueled with emulsified biodiesel blends*. Paper presented at the Annual International Meeting of the American Society of Agricultural and Biological Engineers, Louisville, KY. (#1111084).

*Hunt, C.L., Johnson, D.M., **Edgar, D.W.**, & Wardlow, G.W. (2012). *Performance and emissions of a compact diesel tractor fueled with emulsified biodiesel*. Abstract submitted for presentation at the 2012 Annual International Meeting of the American Society of Agricultural and Biological Engineers. Dallas, TX.

*McGuire, A., Edgar, L.D., **Edgar, D.W.**, Rutherford, T., Doerfert, D., & Murphrey, T. (2011). *Crisis communication needs assessment: A Delphi study to enhance instruction for agricultural communicators and other stakeholders*. North American Colleges and Teachers of Agriculture Conference, Alberta, Edmonton, Canada, June 14-18, 2011.

Murphrey, T.P., Sudduth, A., Rutherford, T., Leggette, H., Doerfert, D., Edgar, L.D., & **Edgar, D.W.** (2011). *Student technology acceptance: Implications for teaching in colleges of agriculture*. North American Colleges and Teachers of Agriculture Conference, Alberta, Edmonton, Canada, June 14-18, 2011.

*Koch, R.B., **Edgar, D.W.**, & Wardlow, G.W. (2011). *Animation: Friend or Foe?* Paper accepted for presentation at the Southern Region of the American Association of Agricultural Education conference, Corpus Christi, TX. February 6-9, 2011.

*Sallee, C., **Edgar, D.W.**, & Johnson, D.M. (2011). *Student Perceptions of Instructional Methods towards Alternative Energy Education*. Paper accepted for presentation at the Southern Region of the American Association of Agricultural Education conference, Corpus Christi, TX. February 6-9, 2011.

*McGuire, A., Edgar, L.D., & **Edgar, D.W.** (2010). *A philosophical view of teaching and learning in the digital world with an application base for Second Life©*. Association for Communication Excellence in Agriculture, Natural Resources, and Life and Human Sciences, St. Louis, MO.

*Hunt, B.A., Edgar, L.D., **Edgar, D.W.**, *Pennington, K., & *McGuire, A. (2012).

Agricultural science technology needs: Agricultural science teachers facing the future in the classroom. Agricultural Education Section of the Southern Association of Agricultural Scientists, Corpus Christi, TX.

*McGuire, A., Edgar, L.D., **Edgar, D.W.**, & *Pennington, K. (2011). *Philosophical view for using Second Life™ as a teaching and learning tool.* Agricultural Education Section of the Southern Association of Agricultural Scientists, Corpus Christi, TX.

*Pennington, K., Edgar, L.D., **Edgar, D.W.**, Cox, C., *McGuire, A., & *Hunt, B.A. (2011). *A mobile classroom for visual communications on the road in Arkansas: Using high school students to create video and photo projects to promote agriculture.* Agricultural Education Section of the Southern Association of Agricultural Scientists, Corpus Christi, TX.

*Davis, J.A., D.M. Johnson, **Edgar, D.W.**, Wardlow, G.W., & Sadaka, S. (2010). *NOx emissions and performance of a single-cylinder diesel engine fueled with emulsified biodiesel blends.* Paper accepted for presentation at the 2011 Annual International Meeting of the American Society of Agricultural and Biological Engineers, Louisville, KY. (#1008326).

*Sallee, C., *Davis, J., Johnson, D.M., **Edgar, D.W.**, & Wardlow, G.W. (2010). *Effectiveness of a biodiesel education workshop for secondary students.* Paper presented at the Annual International Meeting of the American Society of Agricultural and Biological Engineers, Pittsburg, PA. (#1008606).

*Norton, M., Edgar, L.D., & **Edgar, D.W.** (2010). *Readership Habits and Needs of a Major Beef Cattle Breed Association Publication.* Proceedings of the 2010 SAAS Agricultural Communications Conference.

Edgar, L.D. & **Edgar, D.W.** (2009). *Citation structure: An analysis of the literature cited in the Journal of Agricultural Education from 1997 to 2006.* Proceedings of the 2009 Southern Region American Agricultural Education Conference.

Johnson, D.M., Wardlow, G.W., **Edgar, D.W.**, Hudson, G.T., & Sallee, C.W. (2009). *A mobile unit for demonstrating performance, efficiency, and emissions of biofueled engines.* Proceedings of the 2009 ASABE Annual International Meeting.

Roberts, T.G., Murphy, T.H., & **Edgar, D.W.** (2008). *Exploring interaction between student teachers during the student teaching experience.* Proceedings of the 2008 American Association of Agricultural Education Conference.

Edgar, D.W., Roberts, T.G. & Murphy, T.H. (2008). *Structured Communication: Effects on student teacher – cooperating teacher relationships.* Proceedings of the Southern Region Agricultural Education Conference.

Edgar, D.W., Roberts, T.G. & Murphy, T.H. (2008). *Exploring the effects of structured*

communication on teaching efficacy of student teachers and student teacher – cooperating teacher relationships. Proceedings of the Southern Region Agricultural Education Conference (subsequently accepted and presented at the 2008 National AAAE Conference).

Edgar, L.D., **Edgar, D.W.**, Briers, G.E., & Rutherford, T.A. (2008). *Research themes, authors, and methodologies in the Journal of Agricultural Education: A ten-year look.* Paper. Proceedings of the Southern Region Agricultural Education Conference (subsequently accepted and presented at the 2008 National AAAE Conference).

Edgar, D.W., Roberts, T.G. & Murphy, T.H. (2007). *Structured communication: Effects on teaching efficacy of student teachers.* Proceedings of the North Central Agricultural Education Research Conference (subsequently accepted and presented at the 2008 National AAAE Conference).

Edgar, D.W., Edgar, L.D., & Lawver, D.E. (2006). *Students' knowledge, perceptions, and attitudes regarding Mexico's agricultural policy, products and production.* Proceedings of the Western Region Agricultural Education Research Conference and American Association for Agricultural Education Research Conference.

Edgar, D.W. (2006). *Effects of computer animated instruction upon the understanding of high school students.* Proceedings of the Southern Region Agricultural Education Conference.

*denotes graduate student author

Presentations

Invited seminars/lectures (Career; $N = 32$)

Agricultural Mechanization in today's secondary classes. Mississippi State University, Agricultural and Extension Education. AELC 6613 Teaching Agricultural Mechanics, Starkville, MS. January 7, 2020.

Social Sciences: The elusive measure of people. UGA CAES ALEC/ADS Seminar Series, Athens, GA 2019.

Change in an Ever-Changing Global Society. ALDR 4710/6710 International Agriculture Development, Athens, GA 2019.

Small Engine Safety, Troubleshooting and Carburation. CTAERN workshop for Agricultural Science Teachers, Lexington, GA. 2019.

Creating Interactive Learning Environments. UGA Extension Professional Development Workshop. Athens, GA. 2019.

Building High Functioning Teams Through Collaboration. UGA Extension Statewide County Extension Coordinator conference, Rock Eagle 4H Center, GA. 2019 *Note. Due to high demand, this workshop was repeated in another session.

Doing to Learn. Owl Pellets: Tips for Ag Teachers (podcast). Fayetteville, AR 2017.

Theory of Carburetion: Taking things apart. In-Service Professional Development Workshop Series for the Arkansas Vocational Agriculture Teachers Association. Hot Springs, AR. 2017.

Guiding Your Course and Classroom. University of Arkansas Teaching Academy New Faculty Series. 2016.

From Objectives to Assessment: Aligning Course Goals. University of Arkansas Teaching Academy Lunch and Learn. 2016.

Underwater Welding: Explaining Safety and Demonstrating the Process. In-Service Professional Development Workshop Series for the Arkansas Vocational Agriculture Teachers Association. Hot Springs, AR. 2016.

Objectives and their Use in College Teaching. Presented at the UofA Teaching Academy Seminar Series. 2015.

Objectives of Instruction and How to Engage Learners. Presented at the UofA Teaching Academy for New Faculty Series. 2015.

Alternative Energy Systems: Evaluation of Energy Costs Relating to Power Needs. Professional Development Workshop BP4 project, Ames, IA. 2015.

Compression Ignition Engines: Demonstrating Fuel Usage Between Types. In-Service Professional Development Workshop for the Arkansas Vocational Agricultural Teachers Association. 2015.

What's in the Tank: Is there a difference between diesel and biodiesel? Students compare engine performance and exhaust emissions of a compression-ignition engine fueled with regular petroleum diesel fuel vs. biodiesel fuel made from plants and/or animal fats. Specific comparisons will include power, torque, thermal efficiency and oxides of nitrogen (NO_x) emissions. 2014.

Networks of Communication in DBCAFLS courses. Teaching Faculty Support Center, University of Arkansas, April 9, 2012.

Biodiesel education through a mobile demonstration unit. University of Arkansas: Division of Agriculture Bioenergy Summit, May27, 2011.

Myths and Misconceptions about Biodiesel. Biomass Conference, Little Rock, AR August 9, 2011.

Preservice teacher training: Being a Cooperating Teacher, In-Service Professional Development Workshop Series for the Arkansas Vocational Agriculture Teachers

Association. Hot Springs, AR July 26, 2011.

Scenario Based Instruction and Perkins Activities, In-Service Professional Development Workshop Series for the Arkansas Vocational Agriculture Teachers Association. Hot Springs, AR July 24-26, 2010.

Social Networks and Impacts towards Classroom Teaching, Justus Teaching Seminar & Idea Exchange for Dale Bumpers College of Agriculture at the University of Arkansas: invited faculty lecture presentation August 16, 2009.

Social Networks and Impacts towards Classroom Teaching, Justus Teaching Seminar & Idea Exchange for Dale Bumpers College of Agriculture at the University of Arkansas, August 9, 2009.

Rubrics: Objectives to Evaluation, Not-So-New Teaching Academy presentation (2 sessions: 74 total participants), University of Arkansas Fayetteville, AR 2008.

Creative thinking: Opening up a world of thought in your classroom, at the Career and Technical Education and Research and the *National Association for Agriculture Education* conference in Raleigh, North Carolina 2008.

Diversity and Developmental Measures of Preservice Teachers in Early Program Development, invited research presentation serving a national audience of professionals involved in higher education. AACTE at Chicago, IL 2009.

Reaching Out and Looking In: Fostering Intercultural Learning and Sensitivity, invited workshop of Collaboration Professional Development Conference in Bloomington, MN 2008.

Creative Thinking: Opening up a world of thought in your classroom, invited workshop serving a national gathering of practitioners of career and technology educators. National Association of Agricultural Education Conference in Atlanta, GA 2008.

Diversity and Developmental Measures of Preservice Teachers, invited workshop servicing a national audience of post-secondary professionals in colleges of education. Collaboration Professional Development Conference in Bloomington, MN 2008.

Exploring the Effects of Involvement in Human Relations on the Inventory of Cross-Cultural Sensitivity, SDSU Research Days poster presentation.

Creative thinking, a nationally invited presentation to Agricultural Education professional involved in teacher education. National FFA Omega Conference in Indianapolis, IN 2007.

Conceptual Model of Teaching Efficacy Affected Through Communication, a nationally

invited poster presentation to Agricultural Education professional involved in teacher education. National FFA Omega Conference in Indianapolis, IN 2007.

Poster Presentations (Career; N = 22)

- *Bailey, H.E. & Edgar, D.W. (2020). *A Need for Mechanization Training for Pre-Service Teachers*. Southern Region of the American Association of Agricultural Education, Louisville, KY.
- *Hensley, H., Shoulders, C., **Edgar, D.W.**, Graham, D., Johnson, D., & Wardlow, G. (2018). *Teaching enhancement through agricultural laboratories workshop: Effects on self-efficacy and intent to teach agricultural sciences*. American Association for Agricultural Education National Conference, Charleston, SC. Outstanding Poster Presentation.
- *Whitehead, I., Edgar, L.D., & **Edgar, D.W.** (2018). *Assessing and evaluating an honors program in a college of agriculture*. Southern Region of the American Association of Agricultural Education, Jacksonville, FL.
- *Caillouet, O., *Dobbins, C., Edgar, L.D., & **Edgar D.W.** (2018). *A survey to describe the benefits and barriers of University of Arkansas students to study abroad*. Southern Region of the American Association of Agricultural Education, Jacksonville, FL.
- *Hensley, H., **Edgar, D.W.**, & Graham, D.L. (2017). *An inquiry into the needs of female teacher candidates*. Southern Region of the American Association of Agricultural Education, Mobile, AL. (Corresponding Author)
- Graham, D.L., Edgar, L.D., & **Edgar, D.W.** (2017) *Student and faculty perceptions of academic entitlement*. American Association of Agricultural Education.
- Edgar, L.D., **Edgar, D.W.**, & *Whitehead, I. (2017). *Students' perceived preferences, barriers, and benefits: A focus of enhancing student success in international programs*. NACTA Conference, West Lafayette, IN.
- *Bolton, A., & **Edgar, D.W.** (2015). *The Inclusion of STEM Based Principles in Post-Secondary Welding Education*. Southern Region of the American Association of Agricultural Education, Atlanta, GA.
- *Bolton, A., & **Edgar, D.W.** (2015). *Perceptions and Tinkering Self-Efficacy of Agricultural Science Instructors Concerning Welding*. Southern Region of the American Association of Agricultural Education, Atlanta, GA.
- *Calico, C., Edgar, L.D., & **Edgar, D.W.** (2013). *Creating agricultural communication curriculum in secondary agricultural education classrooms: An assessment of students' perceptions*. National Association of Colleges and Teachers of Agriculture Conference.
- *Hunt, C.L., **Edgar, D.W.**, & Johnson, D.M. (2013). *Perceptions of Community College Students towards Biofuels: The Effects of Different Methodological Approaches*.

Agricultural Education Section of the Southern Association of Agricultural Scientists,
Orlando, FL.

*Calico, C., Edgar, L.D., & **Edgar, D.W.** (2013). *Building collaboration between university faculty, state staff, and high school teachers: A focus on the creation of agricultural communications curriculum in Arkansas*. Agricultural Education Section of the Southern Association of Agricultural Scientists, Dallas, TX.

Johnson, D.M., **Edgar, D.W.**, Edgar, L.E., & Pate, M.L. (2012). *Awareness, use and perceptions of biodiesel: A comparison of agriculture and non-agriculture majors*. National Association of Colleges and Teachers of Agriculture (NACTA) Conference.

*Witt, C., Doerfert, D., Irani, T., Rutherford, T., Murphrey, T., Edgar, L.D., & **Edgar, D.W.**, (2012). *Using cognitive style to group graduate students in a virtual team environment*. Agricultural Education Section of the Southern Association of Agricultural Scientists, Birmingham, AL.

*Hunt, B.A., Edgar, L.D., **Edgar, D.W.**, *Pennington, K., *McGuire, A., & Cox, C. (2011). *Agricultural teachers facing the future in the digital classroom: An assessment of students' needs for training in electronic communication and technology*. American Association of Agricultural Education, Coeur d'Alene, ID.

*Davis, J.A., *Seibenmorgen, R., **Edgar, D.W.**, & Johnson, D.M. *Biodiesel education: Effects on high school students' knowledge and perceptions*. American Association for Agricultural Education Southern Region Research Conference, Corpus Christi, TX.

Cox, C., *Munsie, K., Graham, D.L., **Edgar, D.W.**, & Johnson, D.M. (2010). *Student computer use in undergraduate agriculture courses: A 10-year study*. Proceedings of the 2010 North American Colleges and Teachers of Agriculture Conference.

Edgar, D.W., Amaral, K.N., & Edgar, L.D. (2009). *Networks of communication among students in a college of agriculture introductory course*. Proceedings of the 2009 North American College Teachers Association Conference.

Edgar, D.W., Johnson, D.M., Hudson, G.T., Sallee, C.W., & Wardlow, G.W. (2009). *Analysis and application: Next generation energy solutions on the road*. Proceedings of the 2009 Southern Region American Agricultural Education Conference.

Edgar, D.W., Amaral, K.N., & Edgar, L.D. (2009). *Networks of communication and knowledge transfer among students in a college of agriculture introductory course*. Proceedings of the 2009 Southern Region American Agricultural Education Conference.

Johnson, D.M., Wardlow, G.W., & **Edgar, D.W.** (2009). *An ASABE-Recognized agricultural systems management program in a department of agricultural and extension education*. Proceedings of the 2009 Southern Region American Agricultural Education Conference.

Edgar, L.M., **Edgar D.W.**, Lawver, D.E., & Briers, G.E. (2006). *Why travel? Using international experiences to change students' perceptions and attitudes*. Proceedings of the National American Association for Agricultural Education Research Conference.

*denotes graduate student author

INSTRUCTION

The following table represents courses taught by Dr. Don Edgar at New Mexico State University [3] (2020 – present), University of Georgia [2] (Fall 2018 to 2020), University of Arkansas [1] (UofA, Fall 2008 to Spring 2018), and South Dakota State University (SDSU, Fall 2007 to Spring 2008). See the table below for a summarization of different courses taught ($N = 15$), enrollment averages ($M = 15$) and instructor ratings ($M = 4.73$).

Courses Taught

Course Number	Title	Enrollment (average)	Semesters Taught	Rating* (average)
AGED 1122	<i>Youth Organizations in Agriculture₁</i>	25	4	4.81
AGED 3133	<i>Methods in Agricultural Education₁</i>	13	9	4.85
AGED 5053	<i>Philosophy of Agricultural and Extension Education₁</i>	7	2	4.70
AGME 3102/3101L	<i>Small Power Units/Turf Equipment₁</i>	26	9	4.73
AGED 4012	<i>Program Development in Agricultural Education₁</i>	10	4	4.77
AGED 4843	<i>Methods in Agricultural Laboratories₁</i>	12	9	4.84
AGED 5013	<i>Advanced Methods in Agricultural Mechanics₁</i>	11	3	4.82
AGED 5473	<i>Interpreting Social Data in Agriculture₁</i>	17	8	4.56
AGED 5463	<i>Research Methods in Social Sciences₁</i>	8	2	4.66
AGME 3042	<i>Agricultural Constructions₁</i>	11	5	4.85
AGED 475V	<i>Internships in Agricultural Education₁</i>	12	9	N/A
AGME 3153	<i>Surveying in Agriculture & Forestry₁</i>	24	2	4.55
AGED 4350/6350	<i>Curriculum Planning in Agricultural Education₂</i>	22	2	4.25
AGED 4380/6380	<i>Agricultural Education Laboratory Methods₂</i>	11	2	4.66
ALDR 8030E	<i>Diffusion of Innovations₂</i>	29	2	4.30
ALDR 8200E	<i>Research Methods in Agricultural Education₂</i>	15	2	4.46

AXED 105	<i>Techniques in Agricultural Mechanization</i>	TBD	1	TBD
AXED 331	<i>Agricultural Structures</i>	TBD	1	TBD
AXED 456/556	<i>Research Methods</i>	TBD	1	TBD
AXEd 571	<i>Data Collection and Analysis</i>	TBD	1	TBD
Overall Averages (All Courses)		14.71	4.38	4.70

* Note: Rating: 1 = Very Poor to 5 = Excellent, based on student evaluation of teaching effectiveness.

Instructional Grants/Funding Received [Total = \$145,680]

With a heavy teaching appointment, Dr. Edgar continues to seek funding sources to support program development and teaching/learning related research through instructional grants for course equipment and resources. These funds allowed for equipment purchase and in-depth pedagogical-based research designs to support teaching and learning principles and enhance classroom instruction.

1. Lincoln Electric Welding Education Grant (Principal, UofA)
2013 – Level II, \$47,000
2014 – Materials, \$15,965
2. University of Arkansas DBCAFLS (Principal)
2010 - Smart Board and Slate \$8,430
3. Briggs & Stratton Corporation (Principal, UGA)
2012 – 24 engines rated at 24 HP twin cylinder engines @\$950 each, \$22,800
2018 – 75 carburetors @ \$55 each, \$4,125
4. Engine Companies (Principal, UGA)
2018 – Honda (48 engines @ \$570 each), \$27,360
2019 – Yanmar (8 @ 3-cyl Tier IV engines @\$2,500 each), \$20,000

Internship Supervision:

Dr. Edgar (2009 – 2018) was the program leader in Agricultural Education at the University of Arkansas (UofA) where he oversaw certification and degree requirements for Agricultural Education teacher candidates. During this time, he was elected chair of UofA's teacher education board and served a 3-year term (University Praxis certification occurred during the initial year of appointment). Additionally, he was selected to a nation-wide panel determining the re-structure of the Praxis examination of Agriculture (#0700) and assisted to set state and national standards for certification in Agricultural Education. These experiences allowed him to oversee and manage the certification of teacher candidates in UofA's Agricultural Education, Communication, and Technology department.

Agricultural Education teacher candidate supervision per year ($M = 12.82$)

University of Arkansas (2013 – 2018) – 12

University of Georgia (2019) - 5

Development/Extensive Revision of Courses:

AGED 4380/6380 (UGA) – *Agricultural Education Laboratory Methods*. This course had not been taught for many years but was identified as a need area by stakeholders and administration. Therefore, based on student needs, required skills, and educational space available, Dr. Edgar developed the course and integrated critical professional and program

growth areas and needs.

ALDR 8200E (UGA) – *Research Methods in Agricultural Education*. Course was previously taught in the department, but a need for asynchronous delivery was warranted. Therefore, Dr. Edgar developed the course materials for online delivery method and strategically adapted the course based on departmental and college needs. Restructuring of course goals were aligned with students' needs and learning outcomes and objectives were articulated.

ALDR 8030E (UGA) – *Diffusion of Innovation*. This course had been taught previously by many different instructors in the department. Dr. Edgar developed materials for asynchronously delivery and aligned pedagogical strategies. This course, which is required in the ALEC Master's degree program, contributes to critical learning need areas for our students. To further enhance this course, Dr. Edgar gained Kirton Adaptation-Innovation Inventory (KAI) certification to ensure the curriculum and materials were meeting the diverse needs of our students.

AGED 1123 (UofA)– *Foundations of Agricultural Education*. This course was developed to incorporate secondary education foundations and secondary agricultural education to replace a College of Education foundations course and the youth organizations course that was previously taught. Course modifications allowed students to gain competencies in one course as the degree program reduced required credit hours. *Note – this course is not listed in the table presented above. After developing the course and curricular adoption/approval through the UofA system, a new faculty member was hired. It was deemed that this introductory course being taught by the new faculty would allow Dr. Edgar to teach more technical based courses in the degree program.

AGED 5013 (UofA)– *Advanced Methods in Agricultural Mechanization*. This course had not been previously taught recently and graduate/undergraduate needs dictated its development and offering in summer sessions to aid in their mechanization skills and abilities.

AGED 5473 (UofA)– *Interpreting Social Data Analysis*. This course had been previously taught but the M.S. degree was moving towards an asynchronous delivery therefore, the course and its method of delivery impacting student learning needed to be developed and restructured. This course moved to an asynchronous delivery and based on its impact, student enrollment continued to increase each year.

EDFN 479 (SDSU)– *Human Relations in Secondary Education*. This course taught in the College of Education needed to be adapted to a secondary audience and change in the instructor. The course was developed to focus on cognitive development of students and the role of educators.

Chair of Graduate Student Research

M.S. – Thesis ($N = 13$, completed) ($n = 4$, In Progress)

Bailey, Hannah (In Progress). Determining effective curricular practices for teachers in agricultural settings. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Dees-Leak, Brittany (2018). *College student networking in a college of agriculture*. AECT, UofA. Currently, a secondary agricultural education teacher.

Bolton, Andrew (2016). *Successful secondary agricultural programs outside the classroom: A view of champions*. AEED, UofA. Currently, a secondary agricultural education teacher in Texas.

Siebenmorgon, Ryan. (2013). *Differentiated methods of education of secondary students about alternative energy sources*. AEED, UofA. Currently, a secondary agricultural education teacher.

Hunt, Chris (2013). *Effects of structure communication on teacher education candidates at three universities*. AEED, UofA. Currently, employed in the agricultural industry.

Sallee, Clayton (2010). *Perceptions of biofuel by students enrolled in secondary agricultural education classes in selected schools in Arkansas*. AEED, UofA. Currently a secondary agricultural education teacher.

Koch, Ron (2010). *Technology enhanced curriculum and its effect on secondary students*. Department of Agricultural and Extension Education, University of Arkansas.

*Outstanding Graduate Student for Dale Bumpers College of Agriculture and Food and Life Sciences in 2010. AEED, UofA. Currently a secondary agricultural education teacher.

M.S. – non-Thesis (N = 12, Completed)

McTier, Hannah (2020). *Georgia Organics: Lesson and resources for squash production*. ALEC, UGA.

Macedo, Rebecca (2019). *Effective lesson design and impact on learning*. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Landon, Jayston (2018). *Differentiated fuel sources effects on daily engine use*. AECT, UofA. Currently, a secondary agricultural education teacher in Missouri.

Dykes-Branch, Mollie (2018). *Integration of agriculture concepts into science curriculum: Effective measure to increase agriculture literacy?* AECT, UofA. Currently, self-employed in marketing and lesson design with an agricultural emphasis. [Curriculum developed utilized in Farm Bureau educational programs]

Fenton, Clyde (2018). *High tunnel utilization in Northwest Arkansas for strawberry production*. AECT, UofA. Currently, full time employed in agriculture. [2 Extension fact sheets produced for Arkansas Extension Service]

Vangunda, Chastity (2016). *A review of literature: Student involvement theory and agricultural education*. AECT, UofA. Currently full time employed in agriculture.

Carlton, Andrea (2016). *Arkansas beef IQ program in Northwest Arkansas*. AECT, UofA. Currently, an agricultural industry management employee. [Extension Programming developed and implemented in 4 counties]

Baird, Michael (2016). *Evaluating teaching methods in a science course on student knowledge acquisition*. AECT, UofA. Currently, a secondary science education teacher.

Wynn, Brittany (2014). *Does inquiry-based instruction in agriculture increase student's science achievement scores Science in agriculture?* AECT, UofA. Currently, a secondary agricultural education teacher.

Jaime Dufrene (2012). *Tifton 44 Bermudagrass Establishing and Planting Methods*. Agricultural Education, Communications, and Technology, University of Arkansas. Currently employed as an Extension Agent in Arkansas. [Extension fact sheet produced for Arkansas Extension]

Alyssa Starkey (2011). *Square Foot Gardening: Lessons for Elementary Education*. Agricultural Education, Communications, and Technology, University of Arkansas. [Elementary program developed and implemented]

Brian See (2010). *Electronic Marketing versus Traditional Marketing of Live Beef Cattle*. Agricultural Education, Communications, and Technology, University of Arkansas. Currently employed as an Extension Agent in Arkansas. [Extension poster produced for Extension research meeting in Arkansas]

Graduate Student Advisory Committee Membership (N = 23, Completed)

Royal, Colby (2020). Identifying key tactics for informing private landowners of incentives provided by best practices to achieve forest sustainability. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Harrington, Amy (2020). Successful secondary middle school programs in Georgia: A closer look. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Dumas, Karnita (2020). A process of determining food insecurity and its affects on youth in poverty-stricken areas of Georgia. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Hand, Justin (2020). Effects of specialty labeling on beef products purchasing of consumer groups. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Hand, Sarah (2020). Consumer preferences of Georgia grown products. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).

Boydston, Joshua (2019). Determine effective practices for retention of teachers.

- Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Byrd, Ben (2020). Elementary Agricultural Education. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Duncan, Andrea (2019). Effective practices for 4H volunteers. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Carr, Lissi (2019). Perspectives of Agricultural Education Students and Data Science. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Porter, Jay (2019). ATV safety in Georgia. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA)
- Franks, Meridith (2019). *Dairy judging enrichment and educational materials development*. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Woodard, Claire (2019). *Georgia 4-H Horse Club Manual*. Agricultural Leadership, Education, and Communications (ALEC), University of Georgia (UGA).
- Gates, Hailey (2018). *Preservice agricultural education teachers and secondary education teachers' self-efficacy and professional identity*. Agricultural Education Communications and Technology (AECT), University of Arkansas (UofA).
- Hawkins, Emily (2018). *Effects of mock nomination committee engagement towards leadership development*. AECT, UofA.
- Carroll, Justin. (2017). *Effects of field speed and droplet size on herbicide coverage and efficacy*. AECT, UofA.
- Southard, Hanan (2017). *The influence of visual storytelling on the occupational aspirations of non-agricultural undergraduate students*. AECT, UofA.
- Bosnick, Jesse (2016). *Knowledge gain of participants in the Arkansas 4-H ATV safety training course*. AECT, UofA.
- Hinson, James. (2014). *Examining the success and growth of adult agricultural education programs in Missouri*. AECT, UofA.
- Hunt, Jeff (2014). *Ego identity development of college students*. AECT, UofA.
- Duncan, James (2013). Participation in Recreation and Leisure Activities in Long-Term Care Facilities and Health Related Quality of Life. Department of Human and Hospitality

Management, UofA.

Bills-Hunt, Beth Ann (2012). *Impacting cognitive achievement of traditional and non-traditional students in secondary agricultural education courses through cooperative learning*. Department of Agricultural and Extension Education (AEED), UofA.

Davis, Jason (2011). *NOx emissions and performance of a single-cylinder diesel engine fueled with emulsified biodiesel blends*. AEED, UofA.

Hudson, Garris (2010). *Comparing biofuel use in vehicles and impacts towards performance and emissions*. AEED, UofA.

Supervision of Undergraduate Research (N = 2)

Hunt, Chris (2010). Performance of biofuel during sweep test analysis of a John Deere 3310 tractor. B.S. in Agricultural Education, Communication and Technology, University of Arkansas. [undergraduate research publication]

Bills, Beth Ann (2009). Perceptions of elementary students towards nutrition through a program advocating proper eating habits. B.S. Agricultural Education, Communication and Technology, University of Arkansas.

Academic Advising

Agricultural Education Emphasis

Advised approximately 18 undergraduates per semester from 2013 to 2018.

Advised approximately 6 graduate students per semester from 2013 – present.

Professional Development

2019 – edTPA Pearson Agricultural Education Scorer

2019 – American Association for Agricultural Education Leadership Academy

2018 – Kirton Adaptation-Innovation Inventory Certification – Virginia Tech

PUBLIC SERVICE

Extension

In 2018, Dr. Edgar began his first Extension appointment with an allocation of effort at 25%. In the past nine months, his efforts have focused on the identification of needs in effective instructional strategies as a way of providing professional development for Extension personnel. He has developed and revised an 8-hour professional development training program (required for all Georgia extension employees) into a web-based instructional, asynchronous format delivered training. Working with Extension leaders and support staff, testing began in spring 2019 and review and revisions are currently being implemented. However, full module development and program completion is scheduled to be finalized and a full release is expected Spring 2020.

Agent & Specialist Training

Edgar, D.W. & Hurt, Todd (2020). *Creating content for your online classroom or*

website. UGA Extension Online Training and Webinar, 1-hour workshop (agents and specialists).

Edgar, D.W. and Borron, A. (2020). *Writing your research for an audience*. UGA Extension Online Training and Webinar, 1-hour workshop (agents and specialists).

Edgar, D.W. & Fuhrman, N.E. (2019 – Present). *UGA Extension Master Evaluation Certificate* Developed online educational modules for Extension Agents leading to a certificate in Evaluation. Pilot program developed Fall 2019 – Spring 2020 ($n = 16$).

UGA Extension Evaluation Team (2019 – 2020)

UGA Extension team developed to aid in evaluation of state programs and develop evaluation skills and abilities of key personnel.

Fuhrman, N.E. & **Edgar, D.W.** (2019). *Professional Development: Plans for the State*. UGA Extension Evaluation Retreat, 2-hour workshop.

Edgar, D.W., & Hurt, T. (2019). *Creating interactive learning environments: setting expectations and creating instructor presence*. UGA Extension Online Training and Webinar, 1-hour workshop (agents and specialists).

Anderson, J.D., & **Edgar, D.W.** (2019). Building high functioning teams through collaboration. UGA County Extension (CEC) Conference, 2 sessions at 1.75 hours each with county agents, specialists and coordinators.

Professional Service

Service to societies, organizations or agencies

2020 – present	American Association for Agricultural Education (AAAE) Western Region Member Services committee (member)
2019 – 2020	American Association for Agricultural Education (AAAE) Southern Region Conference Co-Chair
2019 – 2020	American Association for Agricultural Education (AAAE) Leadership Academy
2019	Southern Region AAAE Outstanding Early Career Award Reviewer (Invited)
2017 – 2018	AAAE Outstanding Early Career Agricultural Educator National Award Chair (Invited)
2016 – 2018	NACTA UofA Membership Recruitment Chair
2016	AAAE Distinguished Agricultural Communications Educator, Distinguished Agricultural Leadership Educator, and Outstanding Agricultural Educator National Awards Chair (Invited)
2014-2016	President of the Southern Region of American Association of Agricultural Education
2015	Outstanding Agricultural Educator National Awards Chair (Invited)
2009 – present	American Association of Agricultural Education Research Committee, member
2009 – 2015	Member, Southern Region AAAE Research Committee, *Chair 2010-2011

Editorships or editorial board memberships for journals

- 2011 – 2016 Editorial Review Board member, Biomass and Bioenergy
2013 – 2017 Editor, Journal of Southern Region of Agricultural Education
2009 – 2014 Editing Board member, Journal of Southern Region Agricultural Education

Organizational Memberships

American Association for Agricultural Education

- Life Membership (2008 – present)

North American Colleges and Teachers of Agriculture

- Life Membership (2010 – present)

National FFA Alumni

- 2010 – present (annual dues)

Ad Hoc manuscript reviewer

Journals

1. Manuscript Reviewer, *Journal of Agricultural Education*
2. Manuscript Reviewer, *Journal for International Agricultural and Extension Education*
3. Manuscript Reviewer, *NACTA Journal*
4. Manuscript Reviewer, *Biomass & Bioenergy (journal)*
5. Manuscript Reviewer, *Sage Open (journal)*

Conferences

1. Conference manuscript reviewer, American Association for Agricultural Education
2. Conference manuscript reviewer, Southern Region of the American Association for Agricultural Education
3. Conference manuscript reviewer, Western Region of the American Association for Agricultural Education
4. Conference poster reviewer, Southern Region of the American Association for Agricultural Education
5. Conference poster reviewer, Western Region of the American Association for Agricultural Education

Grant Review Panel Member

- 2018 Louisiana State University, promotion to Associate Professor with Tenure
2018 Southern Region Sustainable Agricultural Research and Education

External Evaluator of Promotion/Tenure Dossier

- 2018 Louisiana State University, promotion to Associate Professor with Tenure
2017 North Carolina AT&T, promotion to Associate Professor with Tenure
2017 Michigan State University, promotion from Academic Specialist to Senior Academic Specialist

Special Administrative Assignments

- 2011 – 2013 Secretary, UofA DBCAFLS Dean Appointed Taskforce for Program Viability and Efficiency

Service to Student Groups and Organizations

- 2019 – present Advisor, University of Georgia Young Farmers and Ranchers
- 2019 – 2020 American Association for Agricultural Education (AAAE) Leadership Academy inaugural cohort member
- 2018 – present Co-advisor, University of Georgia Collegiate FFA
- 2018 National FFA SAE Grant reviewer
- 2018 National FFA Proficiency Judge
- 2007 – 2018 Advisor, University of Arkansas Collegiate FFA/4-H
- 2008 – 2018 Advisor, Agricultural Mechanics Club
- 2012 – 2014 National FFA Ag Issues CDE portfolio review/judge
- 2007 Member, South Dakota Technology Initiative in the Classroom Taskforce
- 2007 Member, Career Clusters for Agriculture, Food, and Natural Resources – Develop vertical alignment and statewide curriculum

Service on Departmental, College, or University Committees

University*	College*	Departmental*
Faculty Senate, New Mexico State University, 2020 – present	Faculty Council, University of Arkansas DBCAFLS, 2009 – 2018	Undergraduate Coordinator, University of Georgia ALEC Department, 2019 – 2020
Using Digital Technologies to Reduce the Distance in Distance Learning, University of Georgia, 2018 – 2019	Program Review of Academics Committee, University of Georgia, 2019 – 2020	ALEC Curriculum, Chair, University of Georgia, 2018 – 2020
Faculty Senate, University of Arkansas, 2013 – 2018	College of Agriculture and Environmental Science, University of Georgia Curriculum Committee, 2018 - 2020	Teacher Certification Program Coordinator, AECT, 2009 – 2018
University Teacher Education Board, University of Arkansas, 2009 – 2018;	Program Viability and Efficiency, University of Arkansas DBCAFLS, 2011 – 2013	Recruitment and Retention Committee, AECT, 2010 – 2018
University Teacher Education Board, University of Arkansas Chair 2011 – 2013	Scholarship Committee, University of Arkansas DBCAFLS, 2008 – 2014	Graduate Review Committee, AECT, 2010 – 2018
Program Review, University of Arkansas DBCAFLS,		Scholarship Committee, AECT, 2008 – 2016
		Faculty Search Committee, AECT, 2014, 2016
		Advisor, Graduate Student Association 2013 – 2015

*DBCAFLS = Dale Bumpers College of Agricultural, Food, and Life Sciences; AECT = Agricultural Education, Communications, and Technology, ALEC = Agricultural Leadership, Education, and Communications.

Current Projects (Works in Progress)

UGA Extension Evaluation Team (2019 – present). Development of professional seminars leading towards certification of evaluation specialist.

- Development of *Evaluation Leaders* including 6 professional development seminars and corresponding expert led instructional modules.

Policies, Procedures, & Protocol (2018 – present). Development of on-line training modules for all new extension personnel. Initial testing of module 1 has occurred and revisions are being conducted. Further development of additional modules ($n = 7$) is currently in process. Expected completion expected by 1/2020.

Local community services and relations

Interfaith Health Network Association (2018 – 2020). Coordination and volunteer work with local religious organization where persons interact and families develop life and employability skills through structured housing.

Boy Scouts of America (2011 – 2018). Worked with scout leaders to provide educational programming related to mechanization and agriculture. Workshops ranging from small engines, welding, electricity, and hot/cold metallurgy.