

JESSE C. CAMPBELL, PH.D.

Associate Extension Professor

National Poultry Technology Center (NPTC) & Department of Biosystems Engineering (BSEN)

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Education

Ph.D.	Adult Education, Auburn University, Auburn, AL	2011
M.S.	Adult Education, Auburn University, Auburn, AL	2007
B.S.	Poultry Science, Auburn University, Auburn, AL	2005

Experience

2019 -present	Associate Extension Professor, NPTC, Dept. of Biosystems Engineering, & Adjunct Faculty Poultry Science all at Auburn University
2008-2019	Poultry Housing Specialist, NPTC, Auburn University, AL
2001-2008	Advisor I, Natural Resources Program, Auburn University, AL
1999-2001	Apprentice Electrician, Auburn Electrical Construction Company, Auburn, AL
1997-1999	AutoCAD Draftsman, JHK Systems, Inc., Irondale, AL

Awards

1. Auburn University Department of Poultry Science Adjunct Professor. October 11, 2021
2. Auburn University COA Dean's Excellence in Extension and Outreach Award (Junior). Nov. 2015
3. Auburn University COA Dean's Team Project Award. This award was presented in recognition of major contributions to Alabama agriculture by members of the National Poultry Technology Center (NPTC). Nov. 2011

Professional Affiliations

1. Professional Animal Auditor Certification (PAACO), 2022 - present
2. Member, American Society of Agricultural and Biological Engineers (ASABE), 2020 - present
3. Member, Alabama Poultry and Egg Association (APEA), 2005 – present
4. Member, Alabama Farmers Federation, 2005-present

Publications: Books and White Papers: (4)

1. Campbell, J.C., et. al., "Poultry House Ventilation", A Practical Guide for Managing Risk in Poultry Production 2nd Edition 2018, American Association of Avian Pathologists, p. 105-150.
2. Campbell, J.C., D. Brothers, and J.O. Donald, "Poultry House Ventilation Guide: Updated Version 2011, National Poultry Technology Center of Auburn University, AL: August 2011
3. Campbell, J.C., J. Purswell, G. Simpson, and J. Donald, "Actuated Attic Inlets – A Progress Report, Technical Monograph, Alabama Cooperative Extension System, pp. 13, June 2008.
4. Campbell, J.C., J. Donald, J. Langston, E. Simpson, and L. Cole, "Poultry House Construction Guidelines", Alabama Cooperative Extension System, PHE-101, pp. 60, August 2004.

Extension Articles: Total of 69 newsletters with 33 as first author (20 most recent referenced)

1. **Campbell, J.C.**, J.D. Davis, C.M. Edge, C.R. Smith. 2022. Poultry Farm Water Supply Troubleshooting. ANR-2911. Alabama Cooperative Extension System. August. <https://www.aces.edu/blog/topics/farming/poultry-farm-water-supply-troubleshooting/>
2. **Campbell, J.C.**, J.D. Davis, J.E. Linhoss, K.G. Griggs, C.R. Smith. 2022. 19 Spring Tune-Up Tips for Poultry Farm Generators and Electrical Systems. ANR-2878. Alabama Cooperative Extension System. March. https://www.aces.edu/wp-content/uploads/2022/03/ANR-2878-19-Tune-Up-Tips_032522L.pdf
3. **Campbell, J.C.**, J.D. Davis, J.E. Linhoss, K.G. Griggs, C.R. Smith. C.M. Edge, and M.S. Rueda. 2022. Cold weather ventilation and moisture control for poultry houses. ANR-2849. Alabama Cooperative Extension System. January. <https://www.aces.edu/blog/topics/farming/cold-weather-ventilation-moisture-control-of-poultry-houses/>
4. Arnold, B. J.D. Davis, **J.C. Campbell**, J.L. Purswell, K.G. Griggs, C.R. Smith. M.S. Rueda, C.M. Edge. 2021. NPTC Tools of the Trade: checking for gas leaks. ANR-2835. Alabama Cooperative Extension System. December. <https://www.aces.edu/blog/topics/farming/nptc-tools-of-the-trade-identifying-gas-leaks/>
5. **Campbell, J.C.**, J.D. Davis, K.G. Griggs, C.R. Smith. M. S. Rueda, C.M. Edge. 2021. NPTC Tools of the Trade: fan pulley alignment. ANR-2834. Alabama Cooperative Extension System. December. <https://www.aces.edu/blog/topics/farming/nptc-tools-of-the-trade-fan-pulley-alignment/>

6. Johnson, E.A., J.D. Davis, **J.C. Campbell**, J.L. Purswell, K.G. Griggs, C.R. Smith, M.S. Rueda, C.M. Edge. 2021. NPTC Tools of the Trade: measuring water flow rate. ANR-2827. Alabama Cooperative Extension System. September.
<https://www.aces.edu/blog/topics/farming/nptc-tools-of-the-trade-measuring-water-flow-rate/>
7. Burgett, A., J.D. Davis, **J.C. Campbell**, J.L. Purswell, K.G. Griggs, C.R. Smith, M.S. Rueda, C.M. Edge. 2021. NPTC Tools of the Trade: smoke tracing to identify air infiltration leaks. ANR-2822. Alabama Cooperative Extension System. August.
<https://www.aces.edu/blog/topics/farming/nptc-tools-of-the-trade-smoke-tracing-to-identify-air-infiltration-leaks/>
8. Davis, J.D., **J.C. Campbell**, D. Miller, K.G. Griggs, M.S. Rueda, and C.M. Edge. 2021. Start and run capacitors for electric motors. ANR-2784. Alabama Cooperative Extension System. July. <https://www.aces.edu/blog/topics/farming/start-and-run-capacitors-for-electric-motors/>
9. Davis, J.D., **J.C. Campbell**, D. Miller, K.G. Griggs, M.S. Rueda, and C.M. Edge. 2021. NPTC Tools of the Trade: Testing a Motor Capacitor. ANR-2783. Alabama Cooperative Extension System. July.
<https://www.aces.edu/blog/topics/farming/nptc-tools-of-the-trade-testing-a-motor-capacitor/>
10. Griggs, K.G., J.D. Davis, **J.C. Campbell**, O. Fasina, R. Bradford, and J. Johnson. 2021. Do your valves and hose bibs restrict water capacity? ANR-2721. Alabama Cooperative Extension System. April.
11. Brothers, D.L., J.D. Davis, K.E. Goneke, **J.C. Campbell**, J.O. Donald, and E.H. Simpson. 2018. Choosing Poultry House External Metal Sheathing. Poultry Engineering, Economics, and Management Newsletter. Issue 93. July.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-93ChoosingMetalSheathing-180719JA22.pdf>
12. **Campbell, J.C.**, J.D. Davis, D.L. Brothers, J.O. Donald, and E.H. Simpson. 2018. Evaporative Cooling vs. Dry Floors: A Balancing Act. Poultry Engineering, Economics, and Management Newsletter. Issue 92. April.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr92ECDryFloorsABalancingAct.pdf>
13. **Campbell, J.C.**, D.L. Brothers, J.D. Davis, E.H. Simpson, and J.O. Donald. 2016. Hot Weather: 5 Opportunities to Maximize Airflow and Cooling. Poultry Engineering, Economics, and Management Newsletter. Issue 91. March.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-91Hotweather-final.pdf>
14. **Campbell, J.C.**, D.L. Brothers, J.D. Davis, J.D. O. Donald, and E.H. Simpson. 2016. Benefits of Recirculating Fan Systems. Poultry Engineering, Economics, and Management Newsletter. Issue 90. January.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-90RecirculatingFans.pdf>
15. Brothers, D.L., **J.C. Campbell**, J.D. Davis, J.D. O. Donald, and E.H. Simpson. 2015. Winter is coming! Get ready NOW. Poultry Engineering, Economics, and Management Newsletter. Issue 89. November.
16. **Campbell, J.C.**, D.L. Brothers, J.O. Donald, E.H. Simpson, and J.D. Davis. 2015. Attic Inlet Ventilation: Lessons Learned. Poultry Engineering, Economics, and Management Newsletter. Issue 88. September.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-88AtticVents150911.pdf>
17. **Campbell, J.C.**, D.L. Brothers, J.D. Davis, J.D. O. Donald, and E.H. Simpson. 2015. Simple Steps to Stop Rodent Damage! Poultry Engineering, Economics, and Management Newsletter. Issue 87. March.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-87RodentControl.pdf>
18. **Campbell, J.C.**, J.O. Donald, D.L. Brothers, and E.H. Simpson. 2014. Four Common Minimum Ventilation Mistakes. Poultry Engineering, Economics, and Management Newsletter. Issue 86. December.
<https://ssl.acesag.auburn.edu/dept/poultryventilation/documents/Nwsltr-86CommonMVMistakes20141208.pdf>
19. Brothers, D.L., **J.C. Campbell**, J.O. Donald, and E.H. Simpson. 2014. High Windspeed for Large Birds – Practical Considerations. Poultry Engineering, Economics, and Management Newsletter. Issue 84. July.
20. Brothers, D.L., **J.C. Campbell**, J.O. Donald, and E.H. Simpson. 2014. Tensioner Failure – Serious Problem, Easy Fix. Poultry Engineering, Economics, and Management Newsletter. Issue 83. June.

Popular Press Magazine Articles: Total of 175 articles with 98 as first author (20 most recent referenced)

These articles were published in the following 3 magazines that are distributed to their 10,200 members/subscribers: Alabama Poultry 3,000 members, Poultry Times 5,500 members, and Tennessee Poultry 1,700 members.

1. **Campbell, J.C.** and J.D. Davis. 2022. Poultry Farm Water Supply. Poultry Times. 69(18):20-21. August 29, 2022.
2. Davis, J.D., C.M. Edge, **J.C. Campbell**, K.G. Griggs, and C.R. Smith, 2022. Now is the Time to Conduct an Annual Heating System Tune-up. Alabama Poultry. 17(5):28-29. September/October 2022.
3. **Campbell, J.C.**, J.D. Davis, K.G. Griggs, C.M. Edge, and C.M. 2022. Poultry Farm Water Supply Troubleshooting. Alabama Poultry. 17(4):27-29. July 1, 2022.
4. **Campbell, J.C.**, J.D. Davis, K.G. Griggs, C.M. Edge, and C.M. Smith. 2022. Grower Tips: Troubleshooting poultry farm water supply in hot weather. Poultry Times. 69(12):21-24. June 6, 2022.
5. **Campbell, J.C.**, J.D. Davis, J.E. Linhoss, K.G. Griggs, C.M. Smith, and J.L. Purswell. 2022. Variable Speed Exhaust Fans for Poultry. Alabama Poultry. 17(3):27. May 1, 2022. https://issuu.com/alabamapoultry/docs/may-june_2022_final
6. **Campbell, J.C.**, J.D. Davis, J.E. Linhoss, K.G. Griggs, and C.M. Smith. 2022. Generator and Electrical Tips. Poultry Times. March 1, 2022.
7. **Campbell, J.C.**, J.D. Davis, J.E. Linhoss, K.G. Griggs, and C.M. Smith. 2022. 19 Springtime Tune-Up Tips for Poultry Farm Generators and Electrical Systems. Alabama Poultry. 17(2):27. March 2022.

8. **Campbell, J.C.,** J.D. Davis, J.E. Linhoss, K.G. Griggs, C.M. Smith, and J.L. Purswell. 2022. Variable Speed Exhaust Fans for Poultry: Pros and Cons. Poultry Times. April 25, 2022. 69(9).
9. Davis, J.D., **J.C. Campbell,** J.E. Linhoss, K. Griggs, C. Smith, C. Edge, and M. Rueda. 2022. Don't Run Out of Gas Before Crossing the Goal Line. Alabama Poultry. 17(1):27. January 2022. https://issuu.com/alabamapoultry/docs/52124_issuu
10. **Campbell, J.C.,** J.D. Davis, J.D. Linhoss, K.G. Griggs, C.M. Smith, C.M. Edge, and M.S. Rueda. 2021. Grower Tips: Block, Tackle, Win Minimum Ventilation. Poultry Times. December 27, 2021. 68(20):70-77.
11. Griggs, K.G., J.D. Davis, **J.C. Campbell,** O Fasina, R. Bradford, and J. Johnson. 2021. Do Your Valves and Hose Bibs Restrict Water Capacity? Poultry Times. December 27, 2021. Winter Issue. p.60-63.
12. **Campbell, J.C.,** J.D. Davis, J.D. Linhoss, K.G. Griggs, C.M. Smith, C.M. Edge, and M.S. Rueda. 2021. Block, Tackle, Win - Minimum Ventilation and Moisture Control. Tennessee Poultry. Winter 2021. December 7, 2021. p.43-46. <https://www.tnpoultry.org/news/newsletters/Winter-2021-TPA-Newsletter.pdf>
13. **Campbell, J.C.,** J.D. Davis, J.D. Linhoss, K.G. Griggs, C.M. Smith, C.M. Edge, and M.S. Rueda. 2021. Block, Tackle, Win - Minimum Ventilation and Moisture Control. Alabama Poultry. September 1, 2021. Winter Issue. p.27-30.
14. **Campbell, J.C.,** J.D. Davis, J.D. Linhoss, K.G. Griggs, C.M. Smith, C.M. Edge, and M.S. Rueda. 2021. Block, Tackle, Win - Minimum Ventilation and Moisture Control. Poultry Times. October 11, 2021. 68(21):18-21.
15. **Campbell, J.C.,** J.D. Davis, and K.G. Griggs. 2021. Grower Tips: A balancing act. Poultry Times. July 19, 2021. Summer Issue. p. 24-29
16. **Campbell, J.C.,** J.D. Davis, K.G. Griggs, C.M. Edge, and M.S. Rueda. 2021. Practical Applications: Checking fans for pulley alignment. Alabama Poultry. July 2021. 16(4):p.27-30.
17. **Campbell, J.C.,** J.D. Davis, and K.G. Griggs. 2021. Grower Tips: Water system inspection pays off. Poultry Times. July 19, 2021. Summer Issue. p.20-23
18. Davis, J.D., **J.C. Campbell,** and K.G. Griggs. 2021. Grower Tips. Poultry house electrical checklist. Poultry Times. June 7, 2021. Summer Issue. p.18-19
19. K.G. Griggs, J.D. Davis, and **J.C. Campbell.** 2021. Practical Applications: If nothing else, dump your sump! Alabama Poultry. May 2021. 16(3):p.28-29. https://issuu.com/alabamapoultry/docs/50681_issuu
20. **Campbell, J.C.,** J.D. Davis, and K.G. Griggs. 2021. Practical Applications: Poultry house electrical checklist. Alabama Poultry. 16(2):27-30. https://issuu.com/alabamapoultry/docs/50289_issuu

Invited Presentations: Total of 530 presentations and 27,772 contacts.

- Invited In-State Presentations (347 presentations and 18,033 contacts)
- Invited Out of State Presentations (129 presentations and 8,478 contacts)
- Invited International Presentations (30 presentations and 1,911 contacts).

Extension Poultry Training Seminars Hosted: Total of 134 seminars (48 generated \$385,235/\$326,788 – 8,540 contacts)

The National Poultry Technology Center is widely known for hosting interactive hands-on training seminars. These 134 seminars, some 48 seminars generated \$385,235 for our program and my contribution is responsible for over 80% (\$326,788) of the total.

Extension Hands-on Demonstration and Teaching Modules: Total of 24 designed, built, and in-use at NPTC Facility

- 2024 – Rotem electronic controller, Chore-Time electronic controller, & water well/pressure tank trainer
- 2022 – Interactive poultry house env. simulator, Black-body calibration trainer, water plumbing manifold, & ammonia
- 2021- Infrared thermography obstacle course
- 2020 – Hands-on electrical panel wiring trainer
- 2019 – Motor capacitor evaluation trainer & interactive drinker system trainer
- 2018 – Feeding and drinking systems, exhaust fan/light trap demonstration, mobile exhaust fan trainer, gas plumbing
- 2017 – Curtain-sided house wall section trainer, evaporative cooling system, heating system, electrical power trainer, ventilation system trainer, and emergency backup generator and power system trainer
- 2016 – Environmental control system trainer, interactive lighting systems, & mobile small scale broiler house

Digital Platforms: Total of 4

1. Facebook: National Poultry Technology Center at Auburn University with over 1,100 followers
2. LinkedIn: Jesse Campbell with over 1,065 connections
3. The Poultry Farming Toolkit APP (over 18,614 downloads) 2015 – present
4. www.poultryhouse.com - 2004 – present

Please feel free to reach out to me for supporting documentation on abbreviated information at campbjl@auburn.edu.