

Dennis R. Buckmaster

PhD 1989, Michigan State University, Agricultural Engineering

MS 1986, Michigan State University, Agricultural Engineering

BS 1984, Purdue University, Agricultural Engineering

*Academic Experience:*

- Dean's Fellow for Digital Agriculture, College of Agriculture, Purdue University, 2017 – present.
- Assistant Dean, College of Agriculture; Professor, Department of Agricultural and Biological Engineering, Purdue University. 2013 – present.
- Associate Professor, Department of Agricultural and Biological Engineering, Purdue University, 2006 – 2013.
- Associate Professor, Penn State University, 1994 – 2006.
- Assistant Professor, Penn State University, 1989 – 1994.

*Certifications:* Professional Engineer (Commonwealth of Pennsylvania); Certified Fluid Power Specialist (Fluid Power Society)

*Professional Organizations:* American Society for Agricultural and Biological Engineers; North American Colleges and Teachers of Agriculture; American Forage and Grassland Council; Sigma Xi

*Honors and Awards:*

- Purdue Learning Community awards for Exceptional Event Planner (2017-2018) and Student Impact (2016-2017)
- Purdue Agriculture Pfendler Outstanding Counselor, 2013
- ASABE Blue Ribbon Award for Educational Aids, 2012
- ASABE Superior Paper Award, 2011
- Leadership Citation, ASABE, 2009
- American Forage and Grassland Council Merit Award, 2001

*Service Activities (past five years):*

*Internal:*

- ABE Faculty Search Committees: Chair, 2017-2018; Chair 2015; member 2015
- Purdue ABE Department Head Review Committee, 2016
- Purdue ABE Academic Programs Committee, 2015-2017
- Taught ASABE PE review webinar, 2013-2016
- Club Advisor for ASM Club (2007-2017), Alpha Mu (2008-2017), and Purdue Diesel Club (2010-present)
- Co-leader of Ag Tech and Innovation Learning Community, 2016-present

*External:*

- Host of National Supercluster event regarding Agriculture and Rural Broadband, 2018
- Host of 2017 National Conference of North American Colleges and Teachers of Agriculture
- Member of University Data Science Education Task force, 2017

*Select Publications (past five years):*

1. Buckmaster, D., J. Krogmeier, A. Ault, S. Noel, Y. Wang, Y. Zhang, A. Layton, A. Balmos. 2018. Use cases for real time data in agriculture. Proc. of 14th International Conference on Precision Agriculture.
2. Buckmaster, D., J. Krogmeier, A. Ault. 2016. Digital Ag systems in the US & possible lessons for Australia, paper presented at Digital Disruption in Agriculture Conference, Sydney, 2-3 June, 2016.
3. Balmos, A.D., A.W. Layton, A. Ault, J.V. Krogmeier, D.R. Buckmaster. 2016. Investigation of Bluetooth Communications for Low-Power Embedded Sensor Networks in Agriculture. Transactions of the ASABE. 59(5):1021-1029.
4. Hawkins, E.M. and D.R. Buckmaster. 2015. Benchmarking Costs of Fixed-Frame, Articulated, and Tracked Tractors. Applied Engineering in Agriculture 31(5):741-745.
5. Buckmaster, D.R., D. Wang, and H. Wang. 2014. Assessing Uniformity of Total Mixed Rations. Applied Engineering in Agriculture 30(5):1-6.
6. Gunn, P.J., D.R. Buckmaster, R.P. Lemenager, M.L. Van Emon, M.C. Claeys, and S.L. Lake. 2013. Preservation characteristics of modified wet distillers grains with solubles stored with marginal-quality feedstuffs in laboratory-scale mini silos. Professional Animal Scientist 29:671-676.