

James J. Camberato

Academic Record

Ph.D. North Carolina State Univ. - Soil Science	1987
M.S. North Carolina State Univ. – Soil Science	1982
B.S. University of Massachusetts – Plant and Soil Science	1980

Academic appointments

2013 – present	Professor, Purdue University
2006 – 2013	Associate Professor, Purdue University
2006 – 2014	Adjunct Professor, Clemson University
2003 – 2005	Professor and Extension specialist, Clemson University
1995 – 2003	Associate Professor and Extension specialist, Clemson University
1989 – 1995	Assistant Professor and Extension specialist, Clemson University

Industrial, business, and governmental positions

1987-1989	Res. Chemist, Tennessee Valley Auth., Nat. Fert. Dev. Center
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Awards and honors

- 2017 – Corn Field Scout. C.K. Gerber et al. American Society of Agronomy Extension Education Community Award - Digital Decision Aids.
- 2008 – Purdue Agriculture Team Award: Purdue Crop Diagnostic Training and Research Center.
- 2007 – Entomology Educational Project Award for the Extension Publication: Corn & Soybean Field Guide, 2007 Edition. Board Certified Entomologists of Mid-America.
- 2006 – Educational Materials Contest Certificate of Excellence, Publications. Corn & Soybean Field Guide, 2006 Edition. American Society of Agronomy
- 2001 – Cooperative Extension Superior Performance Award. Clemson University.
- 1995 – Achievement Award. National and South Carolina Association of County Agricultural Agents.
- 1983 – Outstanding Graduate Teaching Assistant Award. North Carolina State Univ.

Memberships in academic, professional, and scholarly societies

Soil Science Society of America
Agronomy Society of America

Responsibilities of Current Position

Dr. Camberato is a soil and plant scientist conducting engagement, research, and teaching in soil fertility and plant nutrition of agronomic crops.

Refereed Articles

Accepted publications

61. Bean, G.M., N.R. Kitchen, J.J. Camberato, R.B. Ferguson, D.W. Franzen, F.G. Fernández, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, P.C. Scharf, J.S. Schepers, and J.F. Shanahan. 2018. Active-optical reflectance sensing corn algorithms evaluated for nitrogen fertilizer rate recommendations. *Agron. J.*, accepted June 2018.
60. Bean, G.M., N.R. Kitchen, J.J. Camberato, R.B. Ferguson, D.W. Franzen, F.G. Fernández, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, P.C. Scharf, J.S. Schepers, and J.F. Shanahan. 2018. Improving an active-optical reflectance sensor algorithm using soil and weather information. *Agron. J.* (accepted Feb. 2018).
59. Yost, M.A., K.S. Veum, N.R. Kitchen, J.J. Camberato, P.R. Carter, R.B. Ferguson, F.G. Fernández, D.W. Franzen, C.A. Laboski, E.D. Nafziger, and J.E. Sawyer. 2018. Evaluation of the Haney soil health nutrient tool for corn nitrogen recommendations across eight Midwest states. *J. Soil Water Conserv.* (accepted Feb. 2018).
58. Penn, C.J., E.B. Rutter, D.B. Arnall, J. Camberato, M. Williams, and P. Watkins. 2018. A discussion on Mehlich-3 phosphorus extraction from the perspective of governing chemical reactions and phases: Impact of soil pH. *Agriculture* 8, 106. DOI 10.3390/agriculture8070106.
57. Morris, T.F., T.S. Murrell, D.B. Beegle, J.J. Camberato, R.B. Ferguson, Q. Ketterings, P.M. Kyveryga, C.A.M. Laboski, J.M. McGrath, J.J. Meisinger, J. Melkonian, B.N. Moebius-Clune, E.D. Nafziger, D. Osmond, J.E. Sawyer, P.C. Scharf, W. Smith, J.T. Spargo, H.M. Van Es, and H. Yang. 2018. Strengths and limitations of nitrogen rate recommendations for corn and opportunities for improvement. *Agron. J.* 110:1-37.
56. Canegallo, A., S.B. Martin, J. Camberato and S. Jeffers. 2017. Seashore paspalum cultivar susceptibility to large patch and fungicide evaluation for disease control in South Carolina. *Intl. Turfgrass Soc. Res. J.* 13: 1: 185-190. DOI:10.2134/itsrj2016.04.0265.
55. Mueller, S.M., J.J. Camberato, J. Shanahan, H. Zhang, and T.J. Vyn. 2017. Late-split N applications increase plant N recovery but not yield in maize. *Agron. J.* 109:2689-2699. DOI 10.2134/agronj2017.05.0282.
54. Kitchen, N.R., J.F. Shanahan, C.J. Ransom, C.J. Bandura, G.M. Bean, J.J. Camberato, P.R. Carter, et al. 2017. A public-industry partnership for enhancing corn nitrogen research and datasets: Project description, methodology, and outcomes. *Agron. J.* 109:2371–2388.
53. Schulze, D.G., N.C. Landin, P.R. Owens, and J.J. Camberato. 2017. Evidence for a naturally occurring post-glacial acid sulfate weathering event in northwestern Indiana, USA. *Geoderma* 308:341-349.
52. de Oliveira Silva, A., J.J. Camberato, T. Coram, T.R. Filley, and T.J. Vyn. 2017. Applicability of a “Multi-stage pulse labeling” ¹⁵N approach to phenotype N dynamics in maize plant components during the growing season. *Front. Plant Science.* 8:1-17. DOI 10.3389/fpls.2017.01360.

51. Chen, K., J.J. Camberato, and T.J. Vyn. 2017. Maize grain yield and kernel component relationships to morpho-physiological traits in commercial hybrids separated by four decades. *Crop Sci.* 57:1-17. DOI 10.3235/cropsci2016.06.0540.
50. Romero Luna, M.P., J.J. Camberato, and K.A. Wise. 2017. Survival of *Stenocarpella maydis* on corn residue in Indiana. *Plant Health Progress* 18:78-83. DOI 10.1094/PHP-RS-16-0063.
49. Chen, K., J.J. Camberato, M.R. Tuinstra, S.V. Kumudini, M. Tollenaar, and T.J. Vyn. 2016. Genetic improvement in density and nitrogen stress tolerance traits over 38 years of commercial maize hybrid release. *Field Crops Res.* 196:438-451. DOI 10.1016/j.fcr.2016.07.025.
48. Ren, B., H. Cui, J.J. Camberato, S. Dong, P. Liu, B. Zhao, and J. Zhang*. 2016. Effects of shading on the photosynthetic characteristics and mesophyll cell ultrastructure of summer maize. *Sci. Nat.* 103:67. DOI 10.1007/s00114-016-1392-x.
47. Zhang, R.H.*, X.H. Zhang, J.J. Camberato, and J.Q. Xue. 2015. Photosynthetic performance of maize hybrids to drought stress. *Russian J. of Plant Phys.* 62:788-796.
46. Kovács, P., G.E. Van Scoyoc, T.A. Doerge, J.J. Camberato, and T.J. Vyn*. 2015. Anhydrous ammonia timing and rate effects on maize N use efficiencies with parallel-to-row placement. *Agron. J.* 107:1205–1214. DOI: 10.2134/agronj14.0350.
45. Cui, H., J.J. Camberato, L. Jin, and J. Zhang*. 2014. Effects of shading on spike differentiation and grain yield formation of summer maize in the field. *International Journal of Biometeorology* DOI:10.1007/s00484-014-0930-5.
44. Camberato, D.M., J.J. Camberato, and R.G. Lopez*. 2014. Determining the effect of carrier water pH and bicarbonate concentration on final pH of plant growth regulator solutions. *HortSci.* 49:1176–1182.
43. P. Kovács, G.E. Van Scoyoc, T.A. Doerge, J.J. Camberato, and T.J. Vyn*. 2014. Pre-plant anhydrous ammonia placement consequences on no-till versus conventional-till maize growth and N responses. *Agron. J.* 106:634–644.
42. Marquardt, P.T., C.H. Krupke, J.J. Camberato, and W.G. Johnson*. 2014. The effect of nitrogen rate on transgenic corn Cry3Bb1 protein expression. *Pest Management Sci.* 70:763–767.
41. Ciampitti, I.A. *, S.T. Murrell, M. Tuinstra, J.J. Camberato, Y. Xia, P. Friedemann, and T.J. Vyn. 2013. Physiological dynamics of maize nitrogen uptake and partitioning in response to plant density and N stress factors: II. Reproductive phase. *Crop Science* 53: 2588-2602.
40. Ciampitti*, I.A., S.T. Murrell, J.J. Camberato, M. Tuinstra, Y. Xia, P. Friedemann, and T.J. Vyn. 2013. Physiological dynamics of maize nitrogen uptake and partitioning in response to plant density and N stress factors: I. Vegetative phase. *Crop Sci.* 53:1-15.

39. Camberato, D.M., J.J. Camberato, and R.G. Lopez*. 2013. Comparing the adequacy of controlled-release and water-soluble fertilizers for bedding plant production. *HortSci.* 48:556-562.
38. Tang, J., X. Yu, N. Luo, F. Xiao, J.J. Camberato, Y. Jiang*. 2013. Natural variation of salinity response, population structure and candidate genes associated with salinity tolerance in perennial ryegrass accessions. *Plant, Cell & Environment* doi: 10.1111/pce.12112
37. Tang, J. J.J. Camberato, X. Yu, N. Luo, S. Bian, and Y. Jiang*. 2013. Growth response, carbohydrate and ion accumulation of diverse perennial ryegrass accessions to increasing salinity. *Scientia Horticulturae* 154:73–81.
36. Ciampitti*, I.A., J.J. Camberato, S.T. Murrell, and T.J. Vyn. 2013. Maize nutrient accumulation and partitioning in response to plant density and nitrogen rate: I. Macronutrients. *Agron. J.* 105:783–795.
35. Terry*, R., P.T. Marquardt, J.J. Camberato, and W.G. Johnson. 2012. The influence of nitrogen timing and volunteer corn interference on hybrid corn. *Weed Sci.* 60:510-515.
34. Mickelbart*, M.V., M.J. Gosney, J. Camberato, and K.M. Stanton. 2012. Soil pH effects on growth of *Spiraea alba* Du Roi and *Spiraea tomentosa* L. *HortScience* 47:902–906.
33. Terry*, R., P.T. Marquardt, J.J. Camberato, and W.G. Johnson. 2012. The effect of plant nitrogen concentration on the response of glyphosate-resistant corn hybrids and their progeny to clethodim and glufosinate. *Weed Sci.* 60:121-125.
32. Winzeler*, H. Edwin, P.R. Owens, B.C. Joern, J.J. Camberato, B.D. Lee, D.E. Anderson, and D.R. Smith. 2008. Potassium fertility and terrain attributes in a Fragiudalf drainage catena. *Soil Sci. Soc. Am. J.* 72:1311-1320.
31. Westphal*, A., L.J. Xing, N.L. Snyder, and J. Camberato. 2008. Effect of inoculations with mycorrhizal fungi of soil-less potting mixes during transplant production on watermelon growth and early fruit yield. *HortScience* 34:354-360.
<http://hortsci.ashspublications.org/cgi/content/full/43/2/354?ijkey=yWDPzK3jCydB4VI&keytype=ref>
30. Camberato*, J.J., P.D. Peterson, and S. B. Martin. 2006. Salinity and salinity tolerance alter rapid blight disease occurrence. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2006-0213-01-RS. <http://www.plantmanagementnetwork.org/pub/ats/research/2006/salinity/>
29. McCarty*, L.B., M.F. Gregg, J.E. Toler, J.J. Camberato, and H.S. Hill. 2005. Minimizing thatch and mat development in a newly seeded creeping bentgrass golf green. *Crop Sci.* 45:1529-1535.

28. Peterson*, P. D., S. B. Martin, and J. J. Camberato. 2005. Tolerance of cool-season turfgrasses to rapid blight disease. Online. Applied Turfgrass Science doi:10.1094/ATS-2005-0328-01-RS.
27. Li, Jianfeng, S. Bruce Martin*, Steven N. Jeffers, Ralph A. Dean, and James J. Camberato. Genetic variation among *Rhizoctonia solani* isolates from warm-season turfgrasses. 2005. Intl. Turfgrass Soc. Res. J. 10:230-236.
26. Royals II, John K., S. Bruce Martin*, James J. Camberato, and Steven N. Jeffers. 2005. Development and evaluation of strategic fungicide programs for control of summer diseases in creeping bentgrass. Intl. Turfgrass Soc. Res. J. 10:237-246.
25. Camberato*, J.J., and S. B. Martin. 2004. Salinity slows germination of rough bluegrass. HortScience 39:394-397.
24. Toler, J.E., E.C. Murdock*, and J.J. Camberato. 2004. Starter fertilizer effects on cotton development and weed interference [Online]. J. Cotton Sci. 8:33-41. Available at <http://journal.cotton.org/2004/issue01/pdf/jcs04i1-5.pdf>
23. Jackson*, B.P., P.M. Bertsch, M.L. Cabrera, J.J. Camberato, J.C. Seaman, and C.W. Wood. 2003. Trace element speciation in poultry litter. J. Environ. Quality 32:535-540.
22. Bunnell, B.T., L.B. McCarty*, R.B. Dodd, H.S. Hill, and J.J. Camberato. 2002. Creeping bentgrass growth response to elevated soil carbon dioxide. HortScience 37:367-370.
21. Camberato*, J.J., S.B. Martin, and A.V. Turner. 2001. Fungicides affect rough bluegrass germination and seedling development. Intl. Turfgrass Soc. Res. J. 9:649-654.
20. Martin*, S.B., J.J. Camberato, and L. Mudge. 2001. Influence of spring-applied preemergence herbicides and nematicides on bermudagrass in nematode-infested soil. Intl. Turfgrass Soc. Res. J. 9:780-786.
19. Chunhua Liu, J.J. Camberato*, S. Bruce Martin, and Amy Turner. 2001. Rough bluegrass germination varies with temperature and cultivar/seed lot. HortScience 36:153-156.
18. Bauer*, P.J., O.L. May, and J.J. Camberato. 1998. Planting date and potassium fertility effects on cotton yield and fiber properties. J. Prod. Agric. 11:415-420.
17. Lippert*, R.M., O. Plank, J. Camberato and J. Chastain. February, 1998. Regional extension in-service training via the internet. J. Extension. <http://www.joe.org/joe/1998february/a3.txt>
16. Cox, A.E., J.J. Camberato*, and B.R. Smith. 1997. Phosphate availability and inorganic transformation in an alum sludge-affected soil. J. Environ. Quality 26:1393-1398.

15. Pan*, W.L., J.J. Camberato, W.A. Jackson, E.J. Kamprath, and R.H. Moll. 1995. Altering source-sink relationships in prolific maize hybrids: Consequences for N uptake and remobilization. *Crop Science* 35:836-845.
14. Frederick*, J.R., and J.J. Camberato. 1995. Water and nitrogen effects on winter wheat in the southeastern Coastal Plain. I. Grain yield and kernel traits. *Agron. J.*87:521-526.
13. Frederick*, J.R., and J.J. Camberato. 1995. Water and nitrogen effects on winter wheat in the southeastern Coastal Plain. II. Physiological responses. *Agron. J.*87:527-533.
12. Camberato*, J.J., and J.R. Frederick. 1994. Residual maize fertilizer nitrogen availability to wheat on the southeastern Coastal Plain. *Agron. J.* 86:962-967.
11. Frederick*, J.R., and J.J. Camberato. 1994. Leaf net CO₂-exchange rate and associated leaf traits of winter wheat grown with various spring nitrogen fertilization rates. *Crop Science* 34:432-439.
10. Bauer*, P.J., J.J. Camberato, and S.H. Roach. 1993. Cotton yield and fiber quality response to green manures and nitrogen. *Agron. J.* 85:1019-1023.
9. Camberato*, J.J., B.R. Bock, and S.R. Cannon. 1992. Enhanced ammonium supply, soil pH, and electrical conductivity effects on spring wheat growth. *J. Plant Nutr.* 15:1291-1303.
<http://dx.doi.org/10.1080/01904169209364396>
8. Camberato*, J.J., and B.R. Bock. 1990. Spring wheat response to enhanced ammonium supply: I. Dry matter and nitrogen content. *Agron. J.* 82:463-467.
7. Camberato*, J.J., and B.R. Bock. 1990. Spring wheat response to enhanced ammonium supply: II. Tillering. *Agron. J.* 82:467-473.
6. Camberato*, J.J., E.J. Kamprath, R.H. Moll, and W.A. Jackson. 1989. Apical and subapical earshoot development of prolific maize hybrids (*Zea mays* L.): The role of nitrogen. *Maydica* 34:309-317.
5. Camberato*, J.J., and B.R. Bock. 1989. Response of grain sorghum to enhanced ammonium supply. *Plant and Soil* 113:79-83.
<http://link.springer.com/content/pdf/10.1007%2F978-94-009-1924-4.pdf>
4. Vepraskas*, M.J., P.A. McDaniel, and J.J. Camberato. 1988. Teaching soil morphology to introductory soil science students. *J. of Agron. Educ.* 17:93-96.
3. Pan*, W.L., J.J. Camberato, W.A. Jackson, and R.H. Moll. 1986. Utilization of previously accumulated and concurrently absorbed nitrogen during reproductive growth in maize (*Zea mays* L.): Influence of prolificacy and nitrogen source. *Plant Physiol.* 82:247-253.

2. Camberato*, J.J., and E.J. Kamprath. 1986. Solubility of adsorbed sulfate in Coastal Plain soils. *Soil Sci.* 142:211-213.

1. Oates*, K.M., J.J. Camberato, and M.J. Vepraskas. 1984. A laboratory exercise using the microcomputer to determine recommendations and least-cost fertilizer blends. *J. of Agron. Educ.* 13:50-53.

Review Articles

2. Camberato*, J.J., B. Gagnon, D.A. Angers, M. Chantigny, and W.L. Pan. 2006. Pulp and paper mill byproducts as plant nutrient sources and soil amendments. *Can. J. Soil Sci.* 86:641-653.

1. Stowell*, L.J., S.B. Martin, M. Olsen, D. Bigelow, M. Kohout, P.D. Peterson, J. Camberato, and W.D. Gelernter. 2005. Rapid blight: A new plant disease. *APS Net Feature*.

<http://www.apsnet.org/online/feature/rapid/>

Book Chapters

13. Camberato, J.J. 2012. Bioavailability of nitrogen. pp. 11-1 – 11-14. *In Handbook of Soil Sciences: Resource Management and Environmental Impacts*, 2nd Edition. (ed.) P.M. Huang et al., CRC Press, Boca Raton, FL.

12. Camberato, J.J., and W.L. Pan. 2012. Calcium, magnesium, sulfur, and silicon. pp. 11-47 – 11-61. *In Handbook of Soil Sciences: Resource Management and Environmental Impacts*, 2nd Edition. (ed.) P.M. Huang et al., CRC Press, Boca Raton, FL.

11. Peterson, P.D., S. B. Martin, and J. J. Camberato. 2007. Current understanding and management of rapid blight disease on turfgrasses. pp. 237-244. *In Handbook of Turfgrass Management and Physiology*, (ed.) M. Pessaraki, CRC Press, Boca Raton, FL.

10. McCarty, Bert, and Jim Camberato. 2004. Soil chemical properties. p. 97-125. *In Best golf course management practices*. 2nd Edition. (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.

9. McCarty, Bert, Jim Camberato, and L. Ray Hubbard, Jr. 2004. Soil mineral properties and drainage. p. 127-169. *In Best golf course management practices*. 2nd Edition (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.

8. McCarty, Bert, Daniel C. Bowman, and Jim Camberato. 2004. Water management in turf. p. 351-377. *In Best golf course management practices*. 2nd Edition (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.

7. McCarty, Bert, Daniel C. Bowman, and Jim Camberato. 2004. Irrigation water quality. p. 379-408. *In Best golf course management practices*. 2nd Edition (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.

6. McCarty, Bert, and Jim Camberato. 2001. Irrigation water quality. p. 281-303. *In* Best golf course management practices. (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.
5. Bowman, Daniel C., Bert McCarty, and Jim Camberato. 2001. Water management in turf. p. 261-280. *In* Best golf course management practices. (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.
4. McCarty, Bert, and Jim Camberato. 2001. Soil mineral properties. p. 96-103. *In* Best golf course management practices. (ed.) L.B. McCarty, Prentice Hall, Upper Saddle River, NJ.
3. Camberato, J.J., and W.L. Pan. 1999. Calcium, magnesium, and sulfur. p. d53-d69. *In* Handbook of soil science. (ed.) M.E. Sumner, CRC Press, Boca Raton, FL.
2. Camberato, J.J., E.D. Vance, and A.V. Someshwar. 1997. Composition and land application of paper manufacturing residuals. *In* Uses of by-products and wastes in agriculture. (eds.) H.C. MacKinnon and J.E. Rechcigl, ACS Press. p. 185-203.
1. Mikkelsen, R.L., and J.J. Camberato. 1995. Potassium, sulfur, lime, and micronutrient fertilizers. P. 109-138. *In* J.E. Rechcigl (ed.) Soil amendments and environmental quality. CRC Press, Boca Raton, FL.

Recent Proceedings Papers (2014-2017)

- Hornaday, C., J.J. Camberato, and R.L. Nielsen. 2016. Response of continuous corn to varying rates and placements of starter fertilizer. *In* Proc. of the 46th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 2-3, 2016. 32:220-224.
<http://extension.agron.iastate.edu/nce/ncepdfs/2016/ncsfc%202016%20hornaday%20pg220.pdf>
- Lee, J., J.J. Camberato, and R.L. Nielsen. 2016. Starter fertilizer slows the movement of corn roots across the row. *In* Proc. of the 46th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 2-3, 2016. 32:215-219.
<http://extension.agron.iastate.edu/nce/ncepdfs/2016/ncsfc%202016%20lee%20pg215.pdf>
- Moser, M., R.L. Nielsen, and J.J. Camberato. 2016. Residual effects of nitrogen fertilization on soil nitrogen pools and corn growth. *In* Proc. of the 46th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 2-3, 2016. 32:204-208.
<http://extension.agron.iastate.edu/nce/ncepdfs/2016/ncsfc%202016%20moser%20pg204.pdf>
- Shafer, M.E. J.J. Camberato, P.R. Carter, R.B. Ferguson, F.G. Fernandez, D.W. Franzen, N.R. Kitchen, C.A.M. Laboski, E.D. Nafziger, R.L. Nielsen, J.E. Sawyer, and J. Shanahan. 2016. Variation in internal N efficiency of corn and impact on yield-goal based N recommendations. *In* Proc. of the 46th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 2-3, 2016. 32:209-214.
<http://extension.agron.iastate.edu/nce/ncepdfs/2016/ncsfc%202016%20shafer%20pg209.pdf>

Ransom, C., N.R Kitchen, J.J. Camberato, P.R. Carter, R.B. Ferguson, F.G. Fernandez, D.W. Franzen, C.A.M. Laboski, E.D. Nafziger, J. Shanahan, and J.E. Sawyer. 2015. Which corn nitrogen fertilization rate tools performs the best in the Midwest? *In* Proc. of the 45th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 4-5, 2015. 31:214.

<http://extension.agron.iastate.edu/nce/ncepdfs/2015/ncsfc%202015%20ransom%20pg214.pdf>

Laboski, C.A.M., J.J. Camberato, and J.E. Sawyer. 2015. Evaluation of Adapt-N in the Corn Belt. Proc. of the 2015 Wisconsin Crop Management Conf., Madison, WI, Jan. 13-15. 54:91-98.

Camberato, J.J. 2014. Nitrogen fertilization decisions: Can we do better? Proc. of the 2014 Wisconsin Crop Management Conf., Madison, WI, Jan. 14-16. 53:126-127.

<https://extension.soils.wisc.edu/wp-content/uploads/sites/68/2014/02/Complete-Vol-53-WCMC-Proceedings.pdf>

Camberato, J.J. 2014. Implementing on-farm research: It's easier than you think. Proc. of the 2014 Wisconsin Crop Management Conf., Madison, WI, Jan. 14-16. 53:134.

<https://extension.soils.wisc.edu/wp-content/uploads/sites/68/2014/02/Complete-Vol-53-WCMC-Proceedings.pdf>

Laboski, C.A.M., J.J. Camberato, and J.E. Sawyer. 2014. Evaluation of Adapt-N in the Corn Belt. *In* Proc. of the 44th North Central Ext.-Ind. Soil Fertility Conf., Des Moines, IA Nov. 19-20, 2014. 30:7-14.

<http://extension.agron.iastate.edu/nce/ncepdfs/2014/ncsfc%202014%20laboski%20pg7.pdf>

Published Abstracts (127)

127. Camberato, J. 2017. Eugene J. Kamprath – An introduction to the man and his career. *In* Agronomy Abstracts 107363.

126. Camberato, J., M. Shafer, P.R. Carter, R.B. Ferguson, F.G. Fernández, D. Franzen, N.R. Kitchen, C.A.M. Laboski, E.D. Nafziger, R.L. Nielsen, J. Shanahan, and J.E. Sawyer. 2017. Soil and environmental factors affecting internal N efficiency of maize. *In* Agronomy Abstracts 60-5.

125. Clark, J., F.G. Fernandez, J. Camberato, P.R. Carter, R.B. Ferguson, D.W. Franzen, N.R. Kitchen, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, and J. Shanahan. 2017. Why the different responses between single and split nitrogen applications? *In* Agronomy Abstracts 35-2.

124. Graf, K., J. Camberato, K. Wise, and S. Casteel. 2017. Effects of soybean release year and intensive management on seed fill. *In* Agronomy Abstracts 46-5.

123. Ji, Zhongjie, C. Zhang, J.J. Camberato, and Y. Jiang. 2017. Application of plant growth regulators on growth and physiological responses of perennial ryegrass under salinity stress. *In* Agronomy Abstracts 106391.

122. Kissick, A., J.J. Camberato, and R.L. Nielsen. 2017. Modelling approaches for determining relationships between crop yield and landscape features. *In* Agronomy Abstracts 248-6.

121. Kissick, A., J.J. Camberato, R.L. Nielsen, M. Leader, and H. Kok. 2017. Identification of nitrogen management strategies in Indiana, USA that impact corn stalk nitrate concentrations. *In Agronomy Abstracts* 130-1.
120. Lee, J., J.J. Camberato, and R.L. Nielsen. 2017. Visual estimation of root density and depth in maize using perforated cylinders and a video recording device equipped with a long borescope. *In Agronomy Abstracts* 106894.
119. Lee, J., J.J. Camberato, and R.L. Nielsen. 2017. Plant growth and yield response of maize to in-furrow biological and plant growth regulator products. *In Agronomy Abstracts* 215-9.
118. Mueller, S.M., J. Camberato, C.D. Messina, J. Shanahan, H. Zhang, and T.J. Vyn. 2017. Physiological strategies for yield preservation despite delayed nitrogen availability in modern maize hybrids. *In Agronomy Abstracts* 106787.
117. Mueller, S.M., J. Camberato, C.D. Messina, J. Shanahan, H. Zhang, and T.J. Vyn. 2017. Split, late-season N applications increase nitrogen recovery efficiency in maize. *In Agronomy Abstracts* 104-6.
116. Pan, W.L., T.M. Maaz, and J. Camberato. 2017. Nitrogen use efficiency analysis from soil fertility, breeding and physiology perspectives. *In Agronomy Abstracts* 257-4.
115. Pasley, H. J. Cairns, M. Olsen, E.J. Kladivko, J. Camberato, and T.J. Vyn. 2017. Soil macro- and micro-nutrient pools' role in yield and nitrogen use efficiency responses of maize hybrids to N in Africa. *In Agronomy Abstracts* 35-4.
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Published Abstracts prior to 2014 (76)

Extension Circulars and Production Guides (Indiana)

CROP 3135-Micronutrients for Soybean Production in the North Central Region. 2017. A.P. Mallarino, D.E. Kaiser, D.A. Ruiz-Diaz, C.A.M. Laboski, J.J. Camberato, and T.J. Vyn. Iowa State Univ. Ext. and Outreach CROP 3135, Aug. 2017.

ID-354-W Managing Cover Crops. Checklist for Integrating Cover Crops Into Your Cropping System. E. Kladvko, R. Nielsen, S. Casteel, K. Johnson, J. Camberato, C. Krupke, W. Johnson, B. Young, and K. Wise.

ID-353-W Managing Cover Crops. An Introduction to Integrating Cover Crops Into a Corn-Soybean Rotation. E. Kladvko, R. Nielsen, S. Casteel, K. Johnson, J. Camberato, C. Krupke, W. Johnson, B. Young, and K. Wise.

ID-179 Corn & Soybean Field Guide, iPad and mobile phone versions.

ID-448 Wheat Field Guide – Soil fertility section.

ID-317 Forage Field Guide 2nd Edition - Revised soil fertility section.

ID-179 Corn & Soybean Field Guide 2006-2017 Editions – Revised soil fertility section annually.

PPP-97 Addressing Customer Questions and Complaints: The Basics Every Agricultural Retail Employee Should Know. F. Whitford, S. Downey, B. Bower, R. Feinberg, K. Wise, J. Camberato, S. Dlugosz, B. Nielsen, C. Krupke, M. Carrell, B. Johnson, S. Casteel, and K.L. Smith.

AY-335-W A Historical Perspective on Nitrogen Fertilizer Rate Recommendations for Corn in Indiana (1953-2011). J.J. Camberato. <http://www.extension.purdue.edu/extmedia/AY/AY-335-W.pdf>

Category 14 Fertilizer and Manure Applicator Certification on-line training module. F. Whitford and J. Camberato. <http://www.indianasoybean.com/CAT14Tutorial/player.html>

HO-240-W Commercial Greenhouse and Nursery Production: Soil pH. M.V. Mickelbart, K.M. Stanton, J.J. Camberato, and B.D. Lee. <http://www.extension.purdue.edu/extmedia/HO/HO-240-W.pdf>

HO-241-W Commercial Greenhouse and Nursery Production: Lowering Soil pH for Horticulture Crops. M.V. Mickelbart, K.M. Stanton, S. Hawkins, and J. Camberato. <http://www.extension.purdue.edu/extmedia/HO/HO-241-W.pdf>

Examples of Timely Extension Publications at Purdue

Spring Nutrient Plans: What Experts Suggest. Lynne Hayes, GrowingAmerica, April 25, 2018. <http://www.growingamerica.com/features/2018/04/spring-nutrient-plans-what-experts-suggest>

Camberato, J., and S. Casteel. 2017. Sulfur deficiency. Soil Fertility Update, July 2017. <https://ag.purdue.edu/agry/Documents/Sulfur%20deficiency%202017.pdf>

Camberato, J. 2017. Late-season nitrogen application for corn. Soil Fertility Update, July 2017. <https://ag.purdue.edu/agry/directory/Documents/Late-season%20N%20Application%202017.pdf>

Camberato, J. and R.L. (Bob) Nielsen. 2017. Soil sampling to assess current soil N availability. June 2017. <http://www.kingcorn.org/news/timeless/AssessAvailableN.html>

Camberato, Jim, and R.L. (Bob) Nielsen. 2017. Nitrogen management guidelines for corn in Indiana. Applied Crop Research Update, March 2017. <https://www.agry.purdue.edu/ext/corn/news/timeless/NitrogenMgmt.pdf>

Nielsen, R.L., J. Lee, J. Hettinga, and J. Camberato. 2017. Yield response of corn to plant population in Indiana. Applied Crop Production Research Update. Feb. 2017. <https://www.agry.purdue.edu/ext/corn/news/timeless/CornPopulations.pdf>

Extension Publications (South Carolina)

2008 South Carolina Corn Production Guide. Soil sampling. Pawel Wiatrak and Jim Camberato. <http://www.clemson.edu/edisto/corn/fertility/>

2008 South Carolina Soybean Production Guide. Soil sampling and fertility management. Pawel Wiatrak, Jim Camberato, and Jason Norsworthy. <http://www.clemson.edu/edisto/soybeans/fertility/>

2008 South Carolina Soybean Production Guide. Seed inoculation. Pawel Wiatrak, Jim Camberato, and Jason Norsworthy. http://www.clemson.edu/edisto/soybeans/seed_inoculation/

Extension Circulars and Production Guides

Outreach Publications and Training Materials Prior to Arriving at Purdue

Years	No.	Description
1999-2006	26	Chapters or revised chapters in Confined Animal Manure Manager Certification Program Manual for Dairy, Poultry, Swine, and Equine (printed and web-based materials). http://www.clemson.edu/camm/
2001-2004	7	Web-only Extension leaflets and slide presentations.
1999-2004	20	Trade journal Extension articles.
1990-2002	9	Chapters or revised chapters (7) in numbered Extension Circulars and Leaflets and a numbered Extension Circular.
1990-1994	13	Printed newsletter articles.

Graduate Student Education

Dr. Camberato is heavily involved in graduate education. The majority of his students will obtain an agronomist position with seed, fertilizer, and pesticide companies, thus he encourages them to obtain a broad experience in plant pathology, entomology, and weed science, as well as crop and soil sciences.

Graduate students as chair or co-chair since 2006.

Last name	First name	Degree	Co-chair	Year completed
Protokowicz	Jack	M.S.	C. Penn	Init. June 2018
Wiethorn	Matthew	M.S.	C. Penn	Init. Jan. 2018
Morales Ona	Ana Gabriela	M.S.	R.L. Nielsen	Init. Jan. 2018
Pandol	Matthew	M.S.	none	Init. Aug. 2017
Martinez	Alberto	Ph.D.	none	Init. Jan. 2016
Lee	Jason	Ph.D.	R.L. Nielsen	Init. August 2015
Shafer	Matt	M.S.	none	Init. May 2015
Pasley	Heather	Ph.D.	T. Vyn	Aug. 2018
Hettinga	John	M.S.	R.L. Nielsen	Aug. 2017
Hornaday	Cody	M.S.	R.L. Nielsen	Aug. 2017
Moser	Meghan	M.S.	none	Dec. 2016
Lee	Jason	M.S.	R.L. Nielsen	August 2015
Early	Brian	Non-thesis M.S.	R.L. Nielsen	May 2015
Smith	Ronald	Non-thesis M.S.	none	May 2015
Menelas	Blucher	Ph.D.	B.C. Joern	May 2014
Geis	Jason	M.S.	R.L. Nielsen	May 2014
Zhao	Chun	Ph.D.	B.C. Joern	Dec. 2013
Edwards	Ryan	Non-thesis M.S.	R.L. Nielsen	Dec. 2013
Maloney	Stephen	M.S.	S. Casteel	Dec. 2012
Ferrel	Andrew	M.S.	none	August 2012
Miller	Eric	M.S.	R.L. Nielsen	May 2012
Emmert	Daniel	M.S.	none	May 2009
Johnson	Dustin	M.S.	R.L. Nielsen	Init. Aug. 2008, DNF

Graduate students as committee member since 2006.					
Last name	First name	Degree	Department	Major prof.	Completion
Triviño	Narda		Horticulture	L. Hoagland	On-going
Miller	Houston	M.S.	Agronomy	S. Armstrong	On-going
Lazcano	Rooney	Ph.D.	Agronomy	M. Mashtare	On-going
Olmedo Pico	Lia	Ph.D.	Agronomy	T. Vyn	On-going
Minai	Joshua	Ph.D.	Agronomy	D. Schulze	On-going
Benally	Nicole	M.S.	Agronomy	E. Kladivko	On-going
Lacey	Corey	Ph.D.	Agronomy	S. Armstrong	On-going
Graf	Kathryn	M.S.	Agronomy	S. Casteel	2018
Mueller	Sarah	M.S.	Agronomy	T. Vyn	2018
Martin	Joseph	Ph.D.	Agronomy	C. Johnston	2018
Ji	Zhongjie	M.S.	Agronomy	Y. Jiang	2018
Yao	Yanyu	M.S.	Agronomy	Y. Jiang	2018
Woodyard	Jennifer	M.S.	Agronomy	E. Kladivko	2018
McMillan	John	Ph.D.	Agronomy	K. Johnson	2016
Chen	Keru	Ph.D.	Agronomy	T. Vyn	2016
Rorick	Joe	M.S.	Agronomy	E. Kladivko	2016
Romero	Paty	Ph.D.	Plant Pathology	K. Wise	2016
Hauenstein	Holland	M.S.	Agronomy	E. Kladivko	2015
Silva	Amanda	M.S.	Agronomy	T. Vyn	2015
Frank	Trevor	M.S.	Agronomy	E. Kladivko	2015
Scott	John	M.S.	Agronomy	S. Casteel	2015
Alford	Sara	M.S.	Agronomy	E. Kladivko	2015
Xu	Min	M.S.	Agronomy	B. Joern	2014
Graper	Donald J.	M.S.	Agronomy	S. Casteel	2014
Long	Philip	M.S.	Agronomy	S. Casteel	2013
Kovacs	Peter	Ph.D.	Agronomy	T. Vyn	2013
Horton	Kaylissa	M.S.	Agronomy	E. Kladivko	2013
Tudor	Tracy	M.S.	Agronomy	C. Bigelow	2013
Elias	Ani	Ph.D.	Agronomy/Statistics	Tuinstra/ Doerge	2013
Suarez	Edwin	M.S.	Agronomy	E. Kladivko	2013
Marquardt	Paul	Ph.D.	Botany and Plant Pathology	B. Johnson	2013
Xia	Yanbing	Ph.D.	Agronomy	T. Vyn	2012
Ciampitti	Ignacio	Ph.D.	Agronomy	T. Vyn	2012
Wilson	Eric	M.S.	Agronomy	S. Casteel	2012
Leeck	Rosalind	Non- thesis	Ag. Econ.	N. Olynk	2012
Terry	Ryan	M.S.	Botany and Plant Pathology	B. Johnson	2011
Hashami	Ziauddin	M.S.	Agronomy	B. Joern	2011
Amini	Mohammad	M.S.	Agronomy	E. Kladivko	2011
Xia	Yanbing	M.S.	Agronomy	T. Vyn	2010

Graduate students as committee member since 2006, continued.					
Urick	Danielle	M.S.	Agricultural Economics	N. Olynk	2010
Nemitz	Jared	M.S.	Agronomy	C. Bigelow	2009
Moeller	Adam	M.S.	Agronomy	C. Bigelow	2008
Winzeler	Edwin	M.S.	Agronomy	P. Owens	2008
Boomsma	Christopher	Ph.D.	Agronomy	T. Vyn	2007
Cánepa	Matias	M.S.	Agronomy	T. Vyn	2007
Canegallo	Alejandro	M.S.	Entomology, Soils and Plant Sci., Clemson Univ.	B. Martin	2006

Prior to arriving at Purdue Dr. Camberato chaired the committee of one student in Agronomy and Soils and served as a committee member for 16 students in various disciplines.

Committee role	No./Degree	Department
Chairman	1 M.S.	Agronomy and Soils
Member	2 M.S. 2 Ph.D.	Agronomy and Soils
	4 M.S. 1 Ph.D.	Plant Pathology
	2 M.S. 1 Ph.D.	Horticulture
	2 M.S. 2 Ph.D.	Biosystems Engineering, Forestry, Environmental Toxicology