

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

- 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
- Crop Science 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

56. 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. 2017. Strengths and limitations of nitrogen rate recommendations for corn and opportunities for improvement. *Agron. J.* (accepted Sept., 2017).

55. Mueller, S.M., J.J. Camberato, J. Shanahan, H. Zhang, and T.J. Vyn. Late-split N applications increase plant N recovery but not yield in maize. *Agron. J.* (accepted Sept., 2017) 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.* (accepted June, 2017).
53. Schulze, D.G., N.C. Landin, P.R. Owens, J.J. Camberato. 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. 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.* (accepted) doi: 10.2134/agronj14.0350.
45. Cui, H., J.J. Camberato, L. Jin, and J. Zhang*. 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.
<http://hortsci.ashspublications.org/content/48/5/556.full.html?ijkey=zapSIOlj5AOIKpt&keytype=ref>
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.* 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.* 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%2F02181924.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.

Proceedings Papers (14)

Published Abstracts (126)

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

125. 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.
124. 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.
123. 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.
122. 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.
121. 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.
120. 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.
119. 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.
118. 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.
117. 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.
116. 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.
115. 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.
114. Pasley, H. J. Cairns, M. Olsen, E.J. Kladvko, 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.
113. Pasley, H. J. Cairns, M. Olsen, J. Camberato, and T.J. Vyn. 2017. Maize composition in Africa. *In Agronomy Abstracts* 230-2.

112. Ransom, C., N.R Kitchen, G.M. Bean, J. Camberato, P.R. Carter, R.B. Ferguson, F.G. Fernandez, D.W. Franzen, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, and J. Shanahan. 2017. Fusing corn nitrogen recommendation tools for an improved canopy reflectance sensor performance. *In Agronomy Abstracts* 105956.
111. Shanahan, J., N.R. Kitchen, C. Ransom, C. Bandura, G.M. Bean, J. Camberato, P.R. Carter, J. Clark, R.B. Ferguson, F.G. Fernandez, D.W. Franzen, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, and M. Shafer. 2017. Overview of a public-industry partnership for enhancing corn nitrogen research and datasets. *In Agronomy Abstracts* 60-1.
110. Yao, Y., C. Zhang, J.J. Camberato, and Y. Jiang. 2017. Physiological, and molecular responses of perennial ryegrass to low nitrogen stress. *In Agronomy Abstracts* 106910.
109. Kissick, A. L., J. Camberato, and R. Nielsen. Relationships between crop yield and landscape features. 7th Asian – Australasian Conference on Precision Agriculture, Hamilton, New Zealand, October 2017.
108. Bean, G.M., N.R. Kitchen, R.B. Ferguson, J.J. Camberato, C.A.M. Laboski, J.E. Sawyer, F.G. Fernandez, D.W. Franzen, E.D. Nafziger, P.R. Carter, and J. Shanahan. 2016. Fusing regional soil and weather variability with site-specific canopy reflectance for improved in-season N fertilizer recommendation. *In Agronomy Abstracts* 102466.
107. Chen, K., T.J. Vyn, J.J. Camberato, M.R. Tuinstra, M. Tollenaar, and S. Kumudini. 2016. Maize genetic improvement in density and nitrogen stress tolerance traits from 1967 to 2005. *In Agronomy Abstracts* 100378.
106. Clark, J., F.G. Fernandez, J.J. Camberato, P.R. Carter, R.B. Ferguson, D.W. Franzen, N.R. Kitchen, C.A.M. Laboski, E.D. Nafziger, J.E. Sawyer, J. Shanahan, and K.S. Veum. 2016. Can the anaerobic potentially mineralizable nitrogen test improve predictions of fertilizer nitrogen rates in the Cornbelt? *In Agronomy Abstracts* 100940.
105. Hettinga, J., R.L. Nielsen, and J.J. Camberato. 2016. Comparing management zones created from historical spatial corn and soybean yield data. *In Agronomy Abstracts* 100821.
104. Hornaday, C., R.L. Nielsen, and J.J. Camberato. 2016. Starter fertilizer in continuous corn production in the Midwest. *In Agronomy Abstracts* 101179.
103. Lee, J., J.J. Camberato, and R.L. Nielsen. 2016. Using precision technologies to conduct large scale on-farm research. *In Agronomy Abstracts* 101217.
102. Li, Y., X. Song, G. Niel, M. Taylor, J.J. Camberato, and Y. Jiang. 2016. Genetic mechanism of nitrogen use efficiency in perennial ryegrass. *In Agronomy Abstracts* 100459.
101. Mueller, S.M., J.J. Camberato, J. Shanahan, and T.J. Vyn. 2016. Organ-specific N dynamics for maize plants at varying N stress in the critical period. *In Agronomy Abstracts* 100402.

100. Pasley, H., T.J. Vyn, J.J. Camberato, J. Cairns, M. Olsen, M.A. Zaman-Allah, and B. Das. 2016. Potential Soil N Depletion By Maize Hybrids Differing in N Use Efficiency in Sub-Saharan Africa. *In Agronomy Abstracts* 100472.
99. Pasley, H., M. Olsen, B. Das, J.J. Camberato, and T.J. Vyn. 2016. Quantifying net N balance and soil N pools following maize hybrids with high N use efficiency in Sub-Saharan Africa. *In Agronomy Abstracts* 100706.
98. Ransom, C., G.M. Bean, 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.E. Sawyer, and J. Shanahan. 2016. Corn nitrogen fertilization rate tools compared over eight Midwest states. 2016. *In Agronomy Abstracts* 102316.
97. Shafer, M., 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. Variability for internal N efficiency of maize and the impact on N fertilizer recommendations. *In Agronomy Abstracts* 100579.
96. Woodyard, J.D., E.J. Kladvko, L.A. Hoagland, and J.J. Camberato. 2016. Cover crop and no-tillage effects on soil health indicators and arbuscular mycorrhizal fungi diversity in Indiana. *In Agronomy Abstracts* 100102.
95. Brooks, S.M., J.J. Camberato, J. F. Shanahan, and T.J. Vyn. 2015. Earshoot N dynamics during the critical period for maize. ASA Meetings Abstract #139-13. Annual Meetings Nov. 15-18, Minneapolis, MN. <https://scisoc.confex.com/scisoc/2015am/webprogram/Paper93305.html>
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Published Abstracts prior to 2012 (63)

Extension Circulars and Production Guides (Indiana)

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. Eileen Kladvko, Robert Nielsen, Shaun Casteel, Keith Johnson, James Camberato, Christian Krupke, William Johnson, Bryan Young, and Kiersten Wise

ID-353-W Managing Cover Crops. An Introduction to Integrating Cover Crops Into a Corn-Soybean Rotation. Eileen Kladvko, Robert Nielsen, Shaun Casteel, Keith Johnson, James Camberato, Christian Krupke, William Johnson, Bryan Young, and Kiersten Wise.

ID-179 Corn & Soybean Field Guide, iPad version.

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 2006-2015 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

Nielsen, R.L. (Bob), J. Lee, and J. Camberato. 2015. Yield response to plant population for corn in Indiana, January 2015.

<https://www.agry.purdue.edu/ext/corn/news/timeless/SeedingRateGuidelines.html>

Camberato, Jim, and R.L. (Bob) Nielsen. 2015. Nitrogen management guidelines for Indiana. Applied Crop Research Update, February 2015.

<https://www.agry.purdue.edu/ext/corn/news/timeless/NitrogenMgmt.pdf>

Camberato, Jim, R.L. (Bob) Nielsen, Eric Miller, and Brad Joern. 2012. Nitrogen Management Guidelines for Indiana. Applied Crop Res. Update, April 2012.

<http://www.agry.purdue.edu/ext/corn/news/timeless/NitrogenMgmt.pdf>

Miller, Eric, R.L. (Bob) Nielsen, and Jim Camberato. 2011. Response of corn to late-season nitrogen application. Corny News Network, Purdue Extension.

<http://www.kingcorn.org/news/timeless/CornRespLateSeasonN.html>

Camberato, J., S. Casteel, P. Goldsbrough, B. Johnson, K. Wise, and C. Woloshuk. 2011. Glyphosate's Impact on Field Crop Production and Disease Development.

<http://www.btny.purdue.edu/weedscience/2011/glyphosatesimpact11.pdf>

Camberato, J., K. Wise and B. Johnson. 2010. Glyphosate – manganese interactions and impacts on crop production: The controversy.

<http://www.btny.purdue.edu/weedscience/2010/GlyphosateMn.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/

Since arriving at Purdue in January 2006, Dr. Camberato has been the primary contact in

Indiana for soil fertility, nutrient management, and plant nutrition information. Dr.

Camberato has given 200 presentations at field days, Diagnostic Training Center days, and meetings to approximately 15,081 attendees.

Invited Presentation Summary 2006-2011

Meeting type	Number	Attendance
County	21	1,070
Multi-County	68	5,201
Statewide	85	5,035
Multi-state, regional, national	26	3,775
Total	200	15,081

2011 Extension presentations (48 presentations, 4,026 participants)

2010 Extension presentations (29 presentations, 2,259 participants)

2009 Extension presentations (26 presentations, 2,394 participants)

2008 Extension presentations (30 presentations, 2,193 participants)

2007 Extension presentations (31 presentations, 2,201 participants)

2006 Extension presentations (36 presentations, 2,008 participants)

Extension Activities Prior to Purdue

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.

Publication of research results in Expt. Stn. Bull. and in the popular press prior to Purdue

Years	No.	Description
1998-2006	20	Trade journal articles overviewing results from research experiments.
1996-1998	7	Articles in Experiment Station bulletins.

Graduate Student Education

Dr. Camberato is heavily involved in graduate education. The majority of his students are interested in obtaining 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
Pandol	Matthew	M.S.	none	Init. Aug. 2017
Martinez	Alberto	Ph.D.	J. Ashtekar	Init. Jan. 2016
Lee	Jason	Ph.D.	R.L. Nielsen	Init. August 2015
Pasley	Heather	Ph.D.	T. Vyn	Init. Aug. 2013
Shafer	Matt	M.S.	none	Init. May 2015
Hettinga	John	M.S.	R.L. Nielsen	August 2017
Hornaday	Cody	M.S.	R.L. Nielsen	August 2017
Moser	Meghan	M.S.	J. Graveel	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.
Woodyard	Jennifer	M.S.	Agronomy	E. Kladvko
Benally	Nicole	M.S.	Agronomy	E. Kladvko
Lacey	Corey	Ph.D.	Agronomy	S. Armstrong
Graf	Kathryn	M.S.	Agronomy	S. Casteel
Martin	Joseph	Ph.D.	Agronomy	C. Johnston
Mueller	Sarah	Ph.D.	Agronomy	T. Vyn
McMillan	John	Ph.D.	Agronomy	K. Johnson
Rorick	Joseph	M.S.	Agronomy	E. Kladvko
Chen	Keru	Ph.D.	Agronomy	T. Vyn
Romero	Paty	Ph.D.	Plant Pathology	K. Wise
Hauenstein	Holland	M.S.	ESE	E. Kladvko
Silva	Amanda	M.S.	Agronomy	T. Vyn
Frank	Trevor	M.S.	Agronomy	E. Kladvko
Scott	John	M.S.	Agronomy	S. Casteel
Alford	Sara	M.S.	Agronomy	E. Kladvko
Xu	Min	M.S.	Agronomy	B. Joern
Graper	Donald J.	M.S.	Agronomy	S. Casteel
Long	Philip	M.S.	Agronomy	S. Casteel
Kovacs	Peter	Ph.D.	Agronomy	T. Vyn
Horton	Kaylissa	M.S.	Agronomy	E. Kladvko
Tudor	Tracy	M.S.	Agronomy	C. Bigelow
Elias	Ani	Ph.D.	Agronomy/Statistics	Tuinstra/ Doerge
Suarez	Edwin	M.S.	Agronomy	E. Kladvko
Marquardt	Paul	Ph.D.	Botany and Plant Pathology	B. Johnson
Xia	Yanbing	Ph.D.	Agronomy	T. Vyn
Ciampitti	Ignacio	Ph.D.	Agronomy	T. Vyn
Wilson	Eric	M.S.	Agronomy	S. Casteel
Leeck	Rosalind	Non-thesis	Ag. Econ.	N. Olynk
Terry	Ryan	M.S.	Botany and Plant Pathology	B. Johnson
Hashami	Ziauddin	M.S.	Agronomy	B. Joern
Amini	Mohammad	M.S.	Agronomy	E. Kladvko
Xia	Yanbing	M.S.	Agronomy	T. Vyn
Urick	Danielle	M.S.	Agricultural Economics	N. Olynk
Nemitz	Jared	M.S.	Agronomy	C. Bigelow

Moeller	Adam	M.S.	Agronomy	C. Bigelow
Winzeler	Edwin	M.S.	Agronomy	P. Owens
Boomsma	Christopher	Ph.D.	Agronomy	T. Vyn
Cánepa	Matias	M.S.	Agronomy	T. Vyn
Canegallo	Alejandro	M.S.	Entomology, Soils and Plant Sci., Clemson Univ.	B. Martin

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
	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