**1. Education background:**

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| Ph.D., Plant Pathology, 2008, NC State University “Etiology, epidemiology, and management of Pythium root dysfunction of creeping bentgrass”, Major Advisors: Lane P. Tredway and H. David ShewM.S., Soil and Crop Science, 2004, Texas A&M University. Influence of Composted Dairy Manure Applications on Leaching of Nutrients and Microbiology of St. Augustinegrass Sod Production.B.S., Agronomy, 2002, NC State University |
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**2. Professional experience:**

Associate Professor & Extension Specialist, 2016-present, NC State University, Department of Entomology and Plant Pathology

Assistant Professor & Extension Specialist, 2012-2016, NC State University, Department of Entomology and Plant Pathology

Assistant Professor & Extension Specialist, 2008-December 2012, University of Wisconsin-Madison, Department of Plant Pathology

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**3. Scholarly and creative activities:**

***Refereed Activity******Number***

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| Journal Articles | 51 |
| Book Chapter | 2 |
| PDMRs | 55 |

***Non-Refereed Activity******Number***

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| --- | --- |
| Trade Journal Articles | 67 |
| Newsletters | 19 |
| Series Publications (Disease Profiles) | 49 |
| Presentations | 422 |

***Grant and Industry Support*** $4,136,750

**4. Membership in professional organizations:**

American Phytopathological Society

American Society of Agronomy/Crop Science Society of America

Golf Course Superintendents Association of America

Carolinas Golf Course Superintendents Association

Triangle Turfgrass Association

International Turfgrass Society

Turfgrass Council of North Carolina

Society of Nematologists

European Turfgrass Society

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**5. Scholarly and professional honors and invitations:**

Invited Speaker, American Phytopathological Society Annual Meetings, Turfgrass and Ornamental Special Session, Boston, MA (2018)

Invited Speaker, American Phytopathological Society Annual Meetings, Turfgrass

Disease Diagnosis Workshop, Providence, RI (2012)

Invited Speaker, American Phytopathological Society Annual Meetings, Special Session, Honolulu, HI (2011)

Seminar Speaker, Department of Horticulture, University of Tennessee, (2011)

Seminar Speaker, Department of Plant Pathology, University of Florida, (2011)

Seminar Speaker, Department of Entomology and Plant Pathology, Stillwater, OK (2010)

Invited Speaker, Sustainable Turfgrass Management Seminar for South East Asia, Thailand, Philippines, Malaysia (2009)

**6. Professional service in department and on campus:**

Co-Director of Turfgrass Center for Environmental Research and Education, 2018 - present

Member of the Lonnie Poole Golf Course Advisory Committee, 2017 - present

Member of Departmental Advisory Committee, 2017-2020

Chair of Search and Screen Committee for Field Nematology Extension Specialist, 2017

Member of Plant Pathology Curriculum and Graduate Affairs Committee, 2017-2019

Member of Plant Pathology Seminar Committee, 2015-2019

Member of Graduate Faculty

Member of Varsity Research Building Feasibility Study Committee, 2015-2016

Member of CALS Innovation and Efficiency Committee, 2014

Member of Search and Screen Committee for Wood Destroying Insects Position, 2016

Member of Search and Screen Committee for Tobacco and Field Crops Extension Specialist, 2015

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**7. Professional service off campus:**

Chair Turfgrass Working Group for American Phytopathological Society 2009-2010

Vice-Chair Turfgrass Working Group for American Phytopathological Society 2008-2009

Associate Editor for Applied Turfgrass Science 2013-2016.

Plant Pathology Society of NC – Vice President 2013 – 2014

Plant Pathology Society of NC- President 2014-2015

*Editorial Duties*:

Plant Disease 22 manuscripts and 12 plant disease notes

Crop Science 17 manuscripts

International Turfgrass Research Journal 4 manuscripts

Crop Protection 8 manuscripts

Plant Health Progress/Applied Turfgrass Science 9 manuscripts

Hort Science 3 manuscripts

Phytopathology 3 manuscripts

*Extension Duties:*

422 presentations at various grower meetings

2 workshops at Golf Course Superintendents Association of America National Conference

18 international presentations in Mexico, Canada, Thailand, Malaysia, Philippines

241 site visits since 2008

4,059 samples submitted to Turfgrass Diagnostic Labs at UW-Madison and NCSU

9,417 followers on social media outlets (Facebook, Twitter, LinkedIn)

 Actively post blog material on website that receives on average 26,403 impressions and 5,000 engagements

 with our tweets.

*Teaching Duties: (All spring courses)*

Co-teach PP 506 – Plant Disease Epidemiology and Management

Co-teach CS 470 – Integrated Pest Management in Turfgrass Systems

***Publications:***

1. Stephens, C., Ahmed, K., Gannon, T.W., and Kerns, J.P. 202x. Influence of post-application irrigation and mowing timing on fungicide fate on a USGA golf course putting green. Journal of Environmental Quality. *Accepted with minor revision.*
2. Hutchens, W.J., Henderson, C.A., Bush, E.A., Kerns, J.P., and McCall, D.S. 202x. Geographic distribution of *Ophiosphaerella* species in the Mid-Atlantic United States. Plant Health Progress. *Submitted.*
3. Reeves, E.R., Kerns, J.P., and Shew, B.B. 202x. *Pythium* spp. associated with root rot and stunting of winter crops in North Carolina. Plant Disease. *Accepted.*
4. Galle, G.H., Shew, H.D., Opperman, C., and J.P. Kerns, 202x. Population dynamics of *Belonolaimus longicaudatus* and *Meloidogyne* spp. in North Carolina. Journal of Nematology. *Accepted.*
5. Reeves. E.R., Kerns, J.P., Cowger, C., and Shew, B.B. 202x. *Pythium* spp. associated with stunting and root rot of winter wheat in North Carolina. Plant Disease. *Accepted.*
6. Dant, L., Martin, S.B., Kerns, J.P., and L. McCarty. 2021. Nitrogen Source Impacts *Rhizoctonia* Leaf and Sheath Spot Severity in Ultradwarf Bermudagrass. International Turfgrass Research Journal. *In Press.*
7. Carroll, D.E., J.T. Brosnan, E.H. Reasor, J.P. Kerns, C. Stephens, B.J. Horvath, and K.H. Dickson. 202x. Effects of Growing Degree Day Based Trinexapac-Ethyl Applications on Ultradwarf Hybrid Bermudagrass Putting Green Quality and Ball Roll. Crop Science. *In Press*
8. Rioux, R., C. Stephens, P.L. Koch, and J.P. Kerns. 202x. Symptom development, histological examination, and whole plant oxalate quantification identify model plants with potential for studying *Clarireedia jacksonii*- host interactions. Plant Pathol J. *In Press.*
9. Hampy, H., VanRyzin, B., E.L. Butler, and J.P. Kerns. 2021. Etiology and Management of Pythium Root Rot. International Turfgrass Research Journal. *In Press.*
10. D’Arcangelo, K.N., Adams, M.L., Kerns, J.P., and Quesada-Ocampo, L.M., 2020. Assessment of fungicide product applications and program approaches for control of downy mildew on pickling cucumber in North Carolina. Crop Protection. https://doi.org/10.1016/j.cropro.2020.105412.
11. Tredway, L.P., Soika, M.D., Butler, E.L., and Kerns, J.P. 2021. Impact of Nitrogen Source, Fall Fertilizers, Preventative Fungicides on Spring Dead Spot Caused by *Ophiosphaerella korrae* and *O. herpotricha*. Crop Science. *In Press.*
12. Crouch, J., Beirn, L.A., Boehm, M.J., Carbone, I., Clarke, B.B., Kerns, J.P., Malapi-Wright, M., Mitchell, T.K., Venu, R.C., and Tredway, L.P. 2020. Genome resources for seven fungal isolates that cause dollar spot disease in turfgrass, including *Clarireedia jacksonii* and *C. monteithiana*. Plant Disease. <https://doi.org/10.1094/PDIS-06-20-1296-A>
13. Lookabaugh, E.C., J.P. Kerns, and B. Shew. 2021. Evaluating selections to manage Pythium root rot on poinsettia cultivars with varying levels of partial resistance. Plant Disease. *In Press*
14. Rioux, R., Townsend, R., J.P. Kerns, C. Stephens, and P.L. Koch. 2020. Oxalic acid production in *Clarireedia jacksonii* is dictated by pH and host specific signals. Frontiers in Microbiology. DOI=10.3389/fmicb.2020.01732*.*
15. Hutchens, W.J., Gannon, T.W., Shew, H.D., Ahmed, K.A., and Kerns, J.P. 2020. Soil surfactants influence fungicide movement in US Golf Association putting green soil. Journal of Environmental Quality.49: 450-459*.*
16. Stephens, C and Kerns, J.P. 2020. First report of *Gaeumannomyces graminicola* causing bermudagrass decline of ultradwarf bermudagrass putting greens in North Carolina. Plant Disease: doi:10.1094/PDIS-10-19-2147-PDN.
17. Butler, E.L, Galle, G.H., and Kerns, J.P. 2019. Influence of nitrogen rate and timing, fungicide application method, and simulated rainfall after fungicide application on brown patch severity in tall fescue. Crop, Forage and Turfgrass Management. Doi:10.2134/cftm2019.03.0018.
18. Hutchens, W.J., Gannon, T.W., Shew, H.D., and Kerns, J.P. 2019. Effect of post-application irrigation on fungicide movement and efficacy against *Magnaporthiopsis poae.* Crop Protection. 122: 106-111.
19. Garcia, R., Kerns, J.P., and Thiessen, L. 2019. *Ralstonia solanacearum* Species Complex: A Diagnostic Guide. Plant Health Progress: doi: 10.1094/PHP-04-18-0015-DG*.*
20. Reasor, E.H., Brosnan, J.T., Kerns, J.P., Hutchens, W.J., Taylor, D.R., McCurdy, J.D., Soldat, D.J., and Kreuser, W.C. 2018. Growing degree day models for plant growth regulator applications on ultradwarf hybrid bermudgrass putting greens. Crop Science, 54: 1801-1807.
21. Lookabaugh, E.C., Kerns, J.P., Cubeta, M.A., and Shew, B. 2018. Fitness attributes of *Pythium aphanidermatum* with dual resistance to mefenoxam and fenamidone. Plant Disease. 102: 1938-1943.
22. Smith, D.L., Kerns, J.P., Walker, N.R., Payne, A.F., Horvath, B., Inguagiato, J.C., Kaminski, J.E.,
Tomaso-Peterson, M., and Koch, P.L. 2018. Development and validation of a weather-based warning system to advise fungicide applications to control dollar spot on turfgrass. PloS ONE. 9: 1-14.
23. Roberts, J.A., Ma, B., Tredway, L.P., Ritchie, D.F., and Kerns, J.P. 2018. Identification and pathogenicity of bacteria associated with etiolation and decline of creeping bentgrass golf course putting greens. Phytopathology, 108: 23-30.
24. Yan, Y., Butler, E.L., and Kerns, J.P. 2017. Characterization, pathogenicity, and in vitro sensitivity of *Rhizoctonia* spp. associated with leaf and sheath spot of bermudagrass putting greens in NC. International Turfgrass Society Research Journal. 13: 1-29*.*
25. Wang, Y., Butler, E.L., and Kerns, J.P. 2017. Temperature effects on formation of appressoria and sporulation of *Colletotrichum cereale* on two turfgrass species. International Turfgrass Society Research Journal. 13: 1-10*.*
26. Doherty, J.R., Botti-Marino, M., Kerns, J., Ritchie, D., and Roberts, J. 2017. Response of microbial populations of the creeping bentgrass phyllosphere to periodic fungicide applications. Plant Health Progress. 18: 44-49*.*
27. Roux, R., VanRyzin, B., and Kerns, J. 2017. *Brachypodium*: A potential model host for fungal pathogens of turfgrass. Phytopathology. 107: p. 749-757.
28. Ye, W., Zeng, Y., and Kerns, J. 2016. First report of *Trichodorus obtusus* on turfgrass in North Carolina, USA. Plant Dis. 100:6, p. 1247.
29. Zeng, Y., W. Ye, Zhang, Z., Sun, H., Yang, L., Huang, Y., Zhao, K., Liang, H., and J.P. Kerns. 2016. Morphological and molecular characterization of *Xiphinema* spp. populations from Shenzhen, China. Helminthologia 53: 62-76*.*
30. Roberts, J.A., D.F. Ritchie, and J.P. Kerns. 2016. Plant growth regulator effects on bacterial etiolation of creeping bentgrass putting green turf caused by *Acidovorax avenae.* Plant Disease 100: 577-582.
31. Ye, W., Zeng, Y., and J.P. Kerns. 2015. Molecular characterization and diagnosis of root-knot nematodes (*Meloidogyne* spp.) from turfgrasses in North Carolina, USA. PLoSOne http://dx.doi.org/10.1371/journal.pone.0143556*.*
32. Koch, P.L. and J.P. Kerns. 2015. Temperature influences persistence of chlorothalonil and iprodione on creeping bentgrass foliage. Plant Health Progress doi: 10.1094/PHP-RS-15-0012.
33. Roberts, J.A., D.F. Ritchie, and J.P. Kerns. 2015. Bacterial etiolation of creeping bentgrass as influenced by biostimulants and trinexapac-ethyl. Crop Protection. Crop Protection 72: 119-126*.*
34. Koch, P.L., J.C. Stier, and J.P. Kerns. 2015. Influence of snow cover on the persistence of chlorothalonil and iprodione on golf course turfgrass. Plant Pathology 64: 1417-1428*.*
35. Zeng, Y., W. Ye, L.P. Tredway, S.B. Martin, M. Martin, and J.P. Kerns. 2015. Molecular characterization and phylogenetic relationships of plant-parasitic nematodes associated with turfgrasses in North Carolina and South Carolina, USA. Plant Disease. 99: 982-993.
36. Ye, W., Y. Zeng, and J. Kerns. 2015. First report of *Trichodorus obtusus* on turfgrass in North Carolina, USA. Plant Disease, 99: 291*.*
37. Rioux, R.A., J. Shultz, M. Garcia, D.K. Willis, M. Casler, S. Bonos, D. Smith, and J. Kerns. 2014. *Sclerotinia homoeocarpa* overwinters in turfgrass and is present in commercial seed. PLoS ONE. DOI: 10.1371/journal.pone.0110897*.*
38. Zeng, Y., W. Ye, K. Zhao, Y. Huang, Z. Zhang, and J. Kerns. 2014. Morphological and molecular characterization of two isolates of *Paratrichodorus porosus* from Shenzhen, China. Helminthologia.51: 323-330*.*
39. Zeng, Y., W. Ye, and J. Kerns. 2014. First report and morphological and molecular characterization of *Meloidogyne incognita* from *Radermachera sinica* in China. Nematropica 44: 118-129.
40. Rioux, RA, Van Ryzin, BJ, Kerns, JP. 2014. Development of a semi-selective medium for isolation of *Sclerotinia homoeocarpa* from plant tissues. Canadian Journal of Plant Pathology. Pgs 235-245.
41. Koch, P.L. and J.P. Kerns 2013. Impact of spring and fall fungicide timings on the development of Typhula blight and dollar spot on golf course turfgrass. International Turfgrass Society Research Journal. 12: 97-101.
42. Koch, P.L., J.C. Stier, S.A. Senseman, J. Sobek, and J.P. Kerns. 2013. Modification of a commercially available ELISA kit to determine chlorothalonil and iprodione concentration on golf course turfgrass. Crop Protection. 54: 35-42.
43. Koch, P.L., and J.P. Kerns. 2012. Resistance of creeping bentgrass cultivars to dollar spot and snow mold. Online. Applied Turfgrass Science doi: 10.1094/ATS-2012-1022-01-RS.
44. Kerns, J.P., P.L. Koch, B.P. Horgan, C.M. Chen, and F.P. Wong. 2010. First report of brown ring patch caused by *Waitea circinata* var. *circinata* on *Poa annua* in Wisconsin and Minnesota. Plant Dis. 94: 1165.
45. Kerns, J. P., and Tredway, L. P. 2010. Pythium root dysfunction of creeping bentgrass. Online. Plant Health Progress doi:10.1094/PHP-2010-0125-01-DG.
46. Kerns, J.P., M.D. Soika, and L.P. Tredway. 2009. Preventive control of Pythium root dysfunction in creeping bentgrass putting greens and sensitivity of *Pythium volutum* to fungicides. Plant Dis. 93: 1275-1280.
47. Koch, P.L., J.P. Kerns, and J.C. Stier. 2009. Spring time fungicide applications delay and reduce dollar spot disease of turfgrass. Int. Turfgrass Soc. Res. J. 11: 241-252.
48. Kerns, J.P., H.D. Shew, D.M. Benson, and L.P. Tredway. 2009. Impact of irrigation frequency, organic matter content, and creeping bentgrass cultivar on the development of Pythium root dysfunction. Int. Turfgrass Soc. Res. J. 11:1-12.
49. Kerns, J.P. and L.P. Tredway. 2008. Influence of temperature on pathogenicity of *Pythium volutum* towards creeping bentgrass. Plant Dis. 92: 1669-1673.
50. Kerns, J.P. and L.P. Tredway. 2008. Pathogenicity of *Pythium* species associated with Pythium root dysfunction of creeping bentgrass and their impact on root growth and survival. Plant Dis. 92:862-869.
51. Kerns, J.P. and L.P. Tredway. 2007. First report of Pythium root dysfunction caused by *Pythium volutum* in North Carolina. Plant Dis. 91:632.

Books:

Tredway, L.P., Kerns, J.P., Tomaso-Peterson, M., and Clarke, B.B. 2021. Compendium of Turfgrass Diseases. 4th edition. *In progress.*

McCarty, B, and Kerns, J. 2016. Best Management Practices for Carolinas Golf Courses. Carolinas Golf Course Superintendents Association. Pgs 1-300.

Book Chapters:

Roberts, J.A., and J.P. Kerns. 2019. Etiolation and Decline: an Engimatic Condition in Creeping bentgrass Putting Greens. In. Plant Pathogenic *Acidovorax* species. Eds. S. Burdman and R. Walcott. APS Press. Pgs 89-100*.*

Kerns, J.P., and L.P. Tredway. 2013. Advances in turfgrass pathology since 1990. Pgs. 733-776. In Turfgrass: Biology, Use, and Management. Eds: Stier, J.C., B.P. Horgan, and S.A. Bonos. American Society of Agronomy. Madison, WI.

Refereed Translational Articles:

Plant Disease Management Reports

1. Galle, G., E.L. Butler, C.M. Stephens, J.N. Ploetz and J.P. Kerns. 2020. Evaluation of DMI fungicides on the control of dollar spot in a creeping bentgrass faiway, 2019. PDMR. *Accepted.*
2. Galle, G.H., C.M. Stephens, H.D. Hampy, J.N. Ploetz, E.L. Butler, and J.P. Kerns. 2020. Safety of new fungicides on bermudagrass overseeded with perennial ryegrass, 2019. PDMR. *Accepted.*
3. C.M. Stephens, E.L. Butler, G.H. Galle, J.N. Ploetz, and J.P. Kerns, 2020. Evaluation of fungicides for control of fairy ring on a bermudagrass putting green, 2019. PDMR. *Accepted.*
4. C.M. Stephens, J.N. Ploetz, E.L. Butler, and J.P. Kerns. 2020. Evaluation of fungicides for the control of spring dead spot on ultradwarf bermudagrass putting greens, 2018-2019. PDMR. *Accepted.*
5. Kerns, J.P., Butler, E.L., and Ploetz, J.N. 2019. Evaluation of fungicides and spray volumes on the control of dollar spot in a creeping bentgrass fairway, 2018. PDMR 13: T003.
6. Kerns, J.P., Butler, E.L, and Ploetz, J.N. 2019. Evaluation of Segway and Union for curative control of Pythium root rot on creeping bentgrass, 2018. PDMR. 13: T004.
7. Freund, D.R., Butler, E.L., Ploetz, J.N., and Kerns, J.P. 2019. Evaluation of fungicides for control of spring dead spot on a bermudagrass putting green, 2017-2018. PDMR 13: T005.
8. Galle, G.L., Butler, E.L., Ploetz, J.N., and Kerns, J.P. 2019. Evaluation of Kabuto and Tekken for the control of spring dead spot on ultradwarf bermudagrass putting greens, 2017-2018. PDMR 13: T006.
9. Butler, E.L., Ploetz, J.N., and Kerns, J.P. 2019. Evaluation of Civitas and other fungicides on the health of bermudagrass putting greens, 2018. PDMR 13: T007.
10. Hutchens, W., Butler, E.L., PLoetz, J.N., and Kerns, J.P. 2019. Evaluation of Heritage and urea on brown patch severity in tall fescue, 2018. PDMR 13: T001.
11. Ploetz, J.N., Fraser, M.L., Butler, E.L., and Kerns, J.P. 2019. Evaluation of fungicides for control of gray leaf spot in tall fescue, 2018. PDMR 13: T002.
12. Hutchens, W., Butler, E.L., Ploetz, J.N., and Kerns, J.P. 2018. Evaluation of Daconil Action-Appear fungicide programs for control of summer diseases and turf quality on a creeping bentgrass putting green in NC, 2017. PDMR 12: T010.
13. Kerns, J.P., Butler, E.L., and Ploetz, J.N. 2018. Evaluation of fungicides for control of Pythium root rot on a creeping bentgrass putting green, 2017. PDMR 12: T011.
14. Galle, G.H., Butler, E.L., Ploetz, J.N., Soika, M.D., and Kerns, J.P. 2018. Effects of Kabuto and NB39132 on control of spring dead spot on a bermudagrass putting green, 2016-2017. PDMR 12: T012.
15. Kerns, J.P., Butler, E.L., and Ploetz, J.N. 2018. Evaluation of Harrell’s EarthMax combined with Armada on brown patch in a tall fescue landscape, 2017. PDMR 12: T014.
16. Anthony, A.M., Kerns, J.P., Fraser, M.L., Butler, E.L., and Ploetz, J.N. 2018. Evaluation of fungicides for control of gray leaf spot in tall fescue, 2017. PDMR 12: T039.
17. Kerns, J.P., Butler, E.L., and Ploetz, J.N. 2018. Evaluation of the effects of wetting agents and Armada on control of brown patch in tall fescue landscape, 2017. PDMR 12: T013.
18. Kerns, J.P., Butler, E.L., Soika, M.D., and Ploetz, J.N. 2017. Evaluation of fungicides for control of dollar spot on a creeping bentgrass fairway, 2016. PDMR 11: T001.
19. Kerns, J.P., Butler, E.L., Soika, M.D., and Ploetz, J.N. 2017. Evaluation of Bayer Exteris Stressgard for control of dollar spot on a creeping bentgrass putting green, 2016. PDMR 11: T018.
20. Kerns, J.P., Butler, E.L., Soika, M.D., Martin, M., and Ploetz, J.N. 2017. Evaluation for fungicides for control of fairy ring on a bermudagrass putting green, 2016. PDMR 11: T019.
21. Kerns, J.P., Butler, E.L., Soika, M.D., and Ploetz, J.N.2017. Effects of Velista and Briskway programs on control of spring dead spot on a bermudagrass putting green, 2015-2016. PDMR 11: T020.
22. Kerns, J.P., Butler, E.L., Soika, M.D., and Ploetz, J.N.2017. Evaluation of fungicides for control of large patch on a zoysiagrass fairway, 2015-2016. PDMR 11: T021.
23. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2016. Evaluation of Signature Xtra StressGard for control of Pythium root rot on creeping bentgrass, 2015. PDMR 10: T009.
24. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2016. Evaluation of fungicides for control of fairy ring on bermudagrass putting green, 2015. PDMR 10: T010.
25. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2016. Evaluation of preventative fungicide applications for dollar spot on a creeping bentgrass fairway, 2015. PDMR 10: T011.
26. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2016. Evaluation of fungicides for control of brown patch and turf quality on tall fescue in a North Carolina landscape, 2015. PDMR 10: T012.
27. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2016. Evaluation of fungicides applied for brown patch control on a tall fescue lawn in Raleigh, North Carolina, 2015. PDMR 10: T013.
28. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2015. Evaluation of fungicides for control of anthracnose on a creeping bentgrass putting green, 2014. PDMR 9: T037.
29. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2015. Evaluation of preventive fungicide applications for dollar spot efficacy on a creeping bentgrass fairway, 2014. PDMR 9: T036.
30. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2015. Evaluation of fungicides for control of brown patch and turf quality on tall fescue in a North Carolina landscape, 2014. PDMR 9: T035.
31. Kerns, J.P., E.L. Butler, M.D. Soika, and J.N.Ploetz. 2015. Effects of fungicides applied for brown patch control on a tall fescue lawn in Raleigh, North Carolina, 2014. PDMR 9: T039
32. Kerns, J. P., M.D. Soika, and J.N.Ploetz. 2014. Effects of seasonal fungicide programs for control of dollar spot and turf quality on a creeping bentgrass putting green, 2013. PDMR 8: T006.
33. Kerns, J. P., M.D. Soika, and J.N.Ploetz. 2014. Evaluation of Enclave fungicide for control of anthracnose and dollar spot on a creeping bentgrass putting green, 2013. PDMR 8: T007.
34. Kerns, J. P., M.D. Soika, and J.N.Ploetz. 2014. Evaluation of Enclave fungicide for control of dollar spot and brown patch on a creeping bentgrass putting green, 2013. PDMR 8: T008.
35. Kerns, J. P., M.D. Soika, and J.N.Ploetz. 2014. Effects of spring applications on various Briskway tank mixtures on quality of a ‘Champion’ bermudagrass putting green, 2013. PDMR 8: T009.
36. Kerns, J. P., M.D. Soika, and J.N.Ploetz. 2014. Tolerance of ‘Champion’ and ‘MiniVerde’ bermudagrass putting greens to various DMI fungicides. PDMR 8: T010.
37. Koch, P.L. and J.P. Kerns. 2013. Preventative fungicide applications for the control of dollar spot at putting green height, 2012. PDMR 7: T001.
38. Koch, P.L. and J.P. Kerns. 2013. Preventative applications for the control of leaf spot on golf course fairways, 2012. PDMR 7: T002.
39. Koch, P.L. and J.P. Kerns. 2013. Preventative applications for the control of Pythium blight on perennial ryegrass, 2012. PDMR 7: T003.
40. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of snow mold on creeping bentgrass, 2010-2011. PDMR 6: T010.
41. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of Pythium blight on perennial ryegrass, 2011. PDMR 6: T005.
42. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of anthracnose at fairway height, 2011. PDMR 6: T006.
43. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of brown patch, 2011. PDMR 6: T007.
44. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of dollar spot at fairway height, 2011. PDMR 6: T008.
45. Koch, P.L., and J.P. Kerns 2012. Preventative fungicide applications for the control of dollar spot at putting green height, 2011. PDMR 6: T009.
46. Koch, P.L. and J.P. Kerns. 2011. Preventative fungicide applications for the control of snow mold on creeping bentgrass (I), 2009-2010. PDMR 5:T031.
47. Koch, P.L. and J.P. Kerns. 2011. Preventative fungicide applications for the control of snow mold on creeping bentgrass (II), 2009-2010. PDMR 5:T032.
48. Koch, P.L. and J.P. Kerns. 2011. Preventative fungicide applications for the control of snow mold on creeping bentgrass (III), 2009-2010. PDMR 5:T033.
49. Koch, P.L. and J.P. Kerns. 2011. Preventative fungicide applications for the control of dollar spot at putting green height, 2010. PDMR 5:T034.
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***Funding:***

Research Support: Total Funds to Program from 2008-2020 (**$4,036,750**)

Competitive Grants Funded:

J.P. Kerns. 2019. Etiology and Management of Pythium root rot of golf course putting greens.

**$55,000.** Turf CENTERE.

J.P. Kerns. 2018. Population Dynamics and Management of Sting nematode in Golf Course Putting Greens.

**$51,000.** Turf CENTERE.

J.P. Kerns. 2017. Population Dynamics and Management of Sting nematode in Golf Course Putting Greens.

**$56,000.** Turf CENTERE.

J.P. Kerns. 2016. Population Dynamics and Management of Sting nematode in Golf Course Putting Greens.

**$54,000.** Turf CENTERE.

J.P. Kerns. 2015. Population Dynamics and Management of Sting nematode in Golf Course Putting Greens.

**$52,000.** Turf CENTERE.

J.P. Kerns. 2014. Biology and Management of Pythium Root Rot of Creeping Bentgrass Putting Greens. **$52,000.** Turf CENTERE.

McCarty, L.B., S.B. Martin, and J.P. Kerns. 2013. Biology and management of mini-ring of ultradwarf bermudagrasses. Carolinas Golf Course Superintendents Association. $85,000 **($20,000** to Kerns).

J.P. Kerns. 2013. Biology and Management of Pythium Root Rot of Creeping Bentgrass Putting Greens. **$42,000**. Turf CENTERE.

Plant breeding and genomics to create sustainable, low input turfgrass cultivars for the northern U.S. USDA-SCRI. $2,136,489 **($132,130 to UW)** 09/01/12-08/31/17. Co-PI. E. Watkins, J. Kerns, and S. Bonos.

Developing improved management strategies for rust in turfgrass sod production. USDA-Specialty Crop Block Grant**. $94,816.** P.I. J. Kerns. 10/01/12-09/30/14.

Characterization and Management of Root-Infecting Pythium species in Bentgrass Putting Greens in the Midwest. GCSAA Environmental Institute for Golf, Wisconsin Golf Course Superintendents Association, Missouri Golf Course Superintendents Associations**.** $52,620 **($27,000 to Kerns)** Co-PI. G.L. Miller and J.P.Kerns. 2012-2015.

Affordable alternatives to PCNB fungicide for snow mold control in the Upper Midwest. Wisconsin Golf Course Superintendents Association. **$10,000.** Co-PI. P.L. Koch and J.P. Kerns. 2011-2013.

Impact of winter putting green covers on snow mold development in Wisconsin. Wisconsin Golf Course Superintendents Association. **$10,000.** Co-PI. P.L. Koch and J.P. Kerns. 2011-2013.

Validation of a logistic regression model for prediction of dollar spot of amenity turfgrasses. $29,188. D.L. Smith and J.P. Kerns. Principal Investigators. 2010-2012.

Alternative turfgrass species as a pest management alternative. USDA-PMAP. $179,494 **($49,230 to program)**. 2009-2012. Co-PD. E. Watkins, J. Kerns, and B. Horgan.

Increasing the economic and environmental sustainability of sod production using biosolids. USDA-SCRI. $485,085.00 **($30,000 to Kerns).** 10/1/08-10/1/12. Co-PI. D.J. Soldat, E. Ervin, G. Evanylo, C. Kome, J. Kerns, P. Mitchell, J. Stier, R.C. Williamson and R. Wolkowski.

Influence of soil temperature on the growth and development of *Sclerotinia homoeocarpa* in soil and in creeping bentgrass plants. USDA-Hatch. **$58,404.00**. 10/1/08-09/30/11. PI. Kerns

Degradation rate of the fungicides chlorothalonil and iprodione for the control of Microdochium patch on turfgrasses. Wisconsin Golf Course Superintendents Association and Golf Course Superintendents Association of America. **$32,000**. 9/1/08-4/30/11. Co-PD. J. Kerns, P. Koch and J. Stier.

Product Testing with Agricultural Chemical Companies: **Total - $2,998,200**

2019- $353,485

2018- $335,120

2017- $303,335

2016- $290,225

2015- $280,650

2014 - $249,650

2013 - $243,635

2012 - $225,300

2011 - $237,400

2010 - $179,300

2009 - $151,400

2008 - $148,700

Extension Support:

*Diagnostic Lab Revenue ($327,175)*

2019- $31,150

2018- $32,450

2017- $28,720

2016- $31,520

2015- $17,950

2014 - $24,720

2013 - $20,760

2012 - $23,000

2011 - $29,815

2010 - $28,365

2009 - $28,850

2008 - $29,875

**EXTENSION AND PUBLIC SERVICE**

Accomplishments:

1. Freund, D, Gannon, T.W., and Kerns, J.P. 2019. A soil surfactant affects distribution of mefenoxam. Golf Course Management. 87(9): 69.
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3. Anthony, A., Koch, P., Smith, D., and Kerns, J.P. 2018. Predicating dollar spot just got easier. Golfdom. 74(4): p. 32-35.
4. Kerns, J.P. and Butler, E.L. 2018. Demystifying Pythium diseases of golf course turfgrasses. Golfdom. 74(2): p. 30-34.
5. Kerns, J.P. 2017. Gray leaf spot on turfgrass. SportsTurf. 34(1): p. 32-35.
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7. Galle, G.H., Kerns, J.P., and Carson., T. 2017. Population dynamics of sting nematode in putting greens. Golf Course Management. 85(4): p. 85.
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9. Galle. G.H. and Kerns, J.P. 2016. Comparative control methodology of *Belonalaimus longicaudatus* and *Meloidogyne* species on golf course putting greens. Turfgrass and Environmental Research Program Research Summaries. p. 207-209.
10. Dant, L., Kerns, J., McCarty, L., and Martin, S.B. 2016. Circling the wagons on mini-ring: An Update. Carolinas Green. July/August. P. 18-20.
11. Kerns, J.P. 2014. Depletion factors. Golfdom. May, 70(5): p. 42-44.
12. Kerns, J.P. 2014. Disease pressure and fungicide resistance. Golfdom. April, 70(4): p. 34-37.
13. Kerns, J.P. 2014. Fungicide Selection. Golfdom. March, 70(3): p. 30-32.
14. Koch, P.L., P.J. Liesch, S. Soper, and J.P. Kerns. 2013. Snowmold chemistry test trials: What worked the winter of 2012-2013. Hole Notes. 46(7): 32-41.
15. Koch, P.L. and J.P. Kerns. 2013. Impact of spring and fall fungicide timings on the development of Typhula blight and dollar spot on golf course turfgrass. The Grass Roots. 42(4): 6-10, 12.
16. J.P. Kerns. 2013. How to distinguish a disease from an abiotic stress. The Landsculptor. Feb: 34-35.
17. Rioux, R.A., and J.P. Kerns. 2013. Water volume doesn’t matter...or does it?: Research examines the effect of different water carrier volumes on fungicide efficacy for dollar spot control. Golf Course Industry. 25(1[2]): 46, 48.
18. Rioux, R.A., and J.P. Kerns. 2012. Water volume doesn’t matter…or does it? The Grass Roots. Nov/Dec. 41(6): p. 8, 10.
19. Kerns, J.P. 2012. What is plant health? The Grass Roots. Nov/Dec. 41(6): p. 20, 22.
20. Koch, P.L. and J.P. Kerns, 2012. Preparing for snow mold applications. Turfgrass TRENDS. Sept. p. 33-34, 36-38.
21. Koch, P.L., and J.P. Kerns. 2012. 2012 snow mold research. The Grass Roots. Sept/Oct. 41(5): p. 6,8-12.
22. Kerns, J.P., and P.L. Koch. 2012. Influence of winter covers on snow mold severity: A summary of year 1. The Grass Roots. Sept/Oct. 41(5): p. 20, 22.
23. Kerns, J.P. 2012. Paul Koch completes PhD in July 2012. The Grass Roots. Sept/Oct. 41(5): p. 24-25.
24. Koch, P.L., and J.P. Kerns. 2012. Snow mold trials 2011. Hole Notes. August. 44(7): p. 14-17, 19-20, 22, 25.
25. Kerns, J.P. 2012. Bacterial disease of turf: Are they real? The Grass Roots. 41(4): p. 18, 20.
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27. Kerns, J.P. 2012. Influence of winter on plant pathogens. The Grass Roots. 41(2): p. 14.
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32. Koch, P., and J. Kerns. 2011. Another fall surprise for snow mold control. The Grass Roots. September/October. 40(5): P. 10, 12-15.
33. Koch, P., and J. Kerns. 2011. Preparing for snow mold applications. On Course. October. 65(6): p. 5, 7.
34. Kerns, J. 2011. Turfgrass pathology 101. The Grass Roots. July/August. 40(4): p. 12, 14-15.
35. Koch, P.L., and J.P. Kerns. 2011. Endocrine disruption and turfgrass pesticides. The Grass Roots. May/June. 40(3): p. 24, 26-27.
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38. Kerns, J.P. 2011. 2010 A Summer of Challenges. WGCSAA GrassRoots. March-April. 22-24.
39. Young, J., and J.P. Kerns. 2011. Beware of Microdochium patch. U of A Division of Agriculture Cooperative Extension Service. Feb. 15. P(1-2).
40. Kerns, J.P. 2011. Prevention is The Best Medicine. WGCSAA GrassRoots. Jan-Feb. 12-14.
41. Kerns, J.P., and L.P. Tredway. 2011. Pythium root dysfunction of creeping bentgrass. GCM 79(1): p. 130.137.
42. Kerns, J.P., P.L. Koch, B.P. Horgan, C.M. Chen, and F.P. Wong. 2010. First report of brown ring patch caused by Waitea circinata var. circinata on Poa annua in Wisconsin and Minnesota. Golf Course Management. Nov: 110.
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48. Kerns, J.P. 2010. Status of DMI Resistance with Respect to Dollar spot. The Grass Roots. 39(5): p. 16-17.
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50. Koch, P.L., Kerns, J. P. 2010. Don’t forget those other growth regulators. The Grass
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51. Koch, P.L., Kerns, J. P. 2010. Plan ahead to control snow mold this year. The Grass
	1. Roots. 39(4): 18-21.
52. Koch, P.L., Kerns, J. P. 2010. Snow mold across America. The Grass Roots. 39(3): 8-
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66. What the Heck is Brown Ring Patch? WGCSAA GrassRoots. Sept-Oct 2008.
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*Newsletter articles:*

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2. Kerns, J. 2011. How to distinguish a disease fro an abiotic stress. WTA Newsletter. Vol. XXV, No. 3. p: 7-9.
3. Kerns, J.P. 2011. Turfgrass Troubleshooting 101: Diagnostic Tools. N.E.W. Horticulture Newsletter. 34(1): p. 6-7.
4. Kerns, J.P. 2010. Pesticide Usage in the Turfgrass Industry. Wisconsin Turfgrass News. 24(1): p. 5.
5. Kerns, J.P. 2010. There’s Mold in Them There Snow Hills. N.E.W. Horticulture Newsletter. 33(1): p. 1-2.
6. Kerns, J.P. 2010. Cultural Practices Usually are the Best Medicine for Turfgrass Problems. N.E.W. Horticulture Newsletter. 33(2): p. 3-4.
7. Wilson, C. and J.P.Kerns. 2010. Ask Not What You Can do For Your Lawn. Ask What Your Lawn Can Do For You. Turfgrass Producers International E-Newsletter. 3(6): p. 14-15.
8. Kerns, J.P. 2010. Differentiating Dollar Spot from Red Thread in Home Lawns. N.E.W. Horticulture Newsletter. 33(3): p. 9-10.
9. Kerns, J.P. and P.L. Koch. 2010. Current Status of PCNB. Wisconsin Turfgrass News. 24(2): p. 13.
10. Kerns, Jim. 2009. How to Distinguish a Disease from an Abiotic Stress. N.E.W. Horticulture Newsletter. April, Pg. 3-4.
11. Kerns, Jim. 2009. Common Summer Diseases of Turfgrasses. N.E.W. Horticulture Newsletter. June-July, Pg. 2-3.
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18. Kerns, J. 2008. Name that Mycelium. Wisconsin Turfgrass Association (WTA) Fall Newsletter.
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*Series Publications:*

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2. Kerns, J.P. and Butler, E.L. 2020. Pest Control for Turfgrass Managers. Turfgrass Disease Control and Nematicides for Turf.
3. Kerns, J.P. and Butler, E.L. 2019. North Carolina Ag Chemical Manual. Turfgrass Disease Control and Nematicides for Turf. pgs. 466-486.
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19. Kerns, J.P., and P.L. Koch. Turf Diseases of the Great Lakes Region. A3187.
20. Tomasko, S., R. Flashinski, R.C. Williamson, and J.P. Kerns. 2008. Wisconsin Pesticide Applicator Training Manual-Turf and Lanscape. Sixth Edition.
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Disease Profiles Published on Turffiles:

*Turffiles (*<https://www.turffiles.ncsu.edu/diseases-in-turf/>*) is an extension website the turf team created in 2006. It averages ~42,000 visits a month. We authored and annually update 28 disease profiles. These profiles detail the causal agent, symptoms, conditions favoring disease development, cultural control and chemical control. Each year we update fungicide tables based on when new products are labeled and we also provide growers with an efficacy rating.*

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22. Kerns, J.P., and Butler, E.L. Slime mold. <https://www.turffiles.ncsu.edu/diseases-in-turf/slime-mold-in-turf/>
23. Kerns, J.P., and Butler, E.L. Spring dead spot. [https://www.turffiles.ncsu.edu/diseases-in-turf/](https://www.turffiles.ncsu.edu/diseases-in-turf/spring-dead-spot-in-turf/)spring-dead-spot-in-turf/
24. Kerns, J.P., and Butler, E.L. Summer patch. [https://www.turffiles.ncsu.edu/diseases-in-turf/](https://www.turffiles.ncsu.edu/diseases-in-turf/summer-patch-in-turf/)summer-patch-in-turf/
25. Kerns, J.P., and Butler, E.L. Take-all root rot. <https://www.turffiles.ncsu.edu/take-all-root-rot-in-turf/>
26. Kerns, J.P., and Butler, E.L. White patch. [https://www.turffiles.ncsu.edu/diseases-in-turf/](https://www.turffiles.ncsu.edu/diseases-in-turf/white-patch-in-turf/)white-patch-in-turf/
27. Kerns, J.P., and Butler, E.L. Yellow patch. [https://www.turffiles.ncsu.edu/diseases-in-turf/](https://www.turffiles.ncsu.edu/diseases-in-turf/yellow-patch-in-turf/)yellow-patch-in-turf/
28. Kerns, J.P., and Butler, E.L. Yellow tuft. [https://www.turffiles.ncsu.edu/diseases-in-turf/](https://www.turffiles.ncsu.edu/diseases-in-turf/yellow-tuft-in-turf/)yellow-tuft-in-turf/

Extension presentations at Various Grower Meetings:

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **No. of presentations1** | **Attendees2** | **States** |
| 2020 | 14 | 1,035 | DE, FL, NC, MI, WI, TN |
| 20192018201720162015 | 443052  3228 | 3,2502,4504,0403,1304,016 | NC, FL, GA, AL, NY, KY, TX, OK, NJ, SC, VACT, FL, TN, KY, CA, NY, KSNC, NY, FL, MD, CT, GA, MI, ILNC, PA, CA, WI, VA, GA, OH NC, SC, MI, IL, AR |
| 2014 | 40 | 3,350 | SC, OH, KY, NY, NC, IL, MI, CT |
| 2013 | 32 | 5,314 | TN, MN, WI, NY, NC, CA, MI, IL, FL |
| 2012 | 26 | 3,062 | WI, MN, FL, ND, RI, IL, NV, MI, SC |
| 2011 | 32 | 4,026 | KS, WI, IL, OH, CA, TN |
| 2010 | 34 | 3,836 | MN, WI, OK, IL, MO |
| 2009 | 38 | 1,982 | WI, ILMN, WI, IL, NY, WA, ID |
| 2008 | 5 | 495 | WI, MI, SC |
| **Totals** | **402** | **39,066** |  |

1. Includes presentations that ranged from 30 min to 2 hour in length and made at annual grower meetings, regional conferences, national conferences, webinars, and chemical and distributor meetings.

2. Attendees numbers were collected from registration data when available or from estimates while giving the presentations.

National Workshops: (Did not renew these for 2019 or 2020)

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Meeting1** | **Attendees** | **Location** |
| 2018201720162015 | GCSAA National Education ConferenceGCSAA National Education ConferenceGCSAA National Education ConferenceGCSAA2 National Education Conference | 21033003 2403160 | San Antonio, TXOrlando, FL San Diego, CASan Antonio, TX |
| 2014 | GCSAA National Education Conference |  110 | Orlando, FL |

1 Presenting at this meeting requires a proposal and selection before inclusion at the conference

2 Golf Course Superintendents Association of America

3 Represents two 4 hr workshops: Soilborne Diseases and Turfgrass Microbiology

International Speaking Engagements:

­2019: Golf Course Superintendents Association of Mexico Annual Meeting. 1, 2 hour presentation in Mexico City.

2019: Canadian Superintendents Association Meeting, 2, 2 hour presentations in Calgary and Edmonton.

2016: Asian Turfgrass Sustainability Seminar Series, 2, 3 hour workshops in Thailand.

2016: Golf Course Superintendents Association of Mexico Annual Meeting. 2, 2 hour presentations in Puebla, Mexico.

2015: Canadian Golf Course Superintendents Association National Meeting, 2 presentations

 Association of Mexican Golf Course Superintendents Education Meeting, 2 presentations

2014: Guelph Turfgrass Symposium, 2 presentations

 Association of Mexican Golf Course Superintendents Education Meeting, 2 presentations

2012: Canadian Golf Course Superintendents Association National Meeting, 2 presentations

2009: Asian Turfgrass Sustainability Seminar Series, 8 total presentations in Thailand, Malaysia and Philippines.

Site Visits to address disease emergencies

2020- 4

2019- 12

2018- 15

2017- 34

2016- 22

2015- 28

2014- 23

2013- 32

2012- 12

2011- 22

2010- 15

2009- 20

2008- 6

***Service:***

Department of Plant Pathology and NCSU Committees

Co-Director of Turfgrass Center for Environmental Research and Education, 2018-2021

Member of the Lonnie Poole Golf Course Advisory Committee, 2017-present

Member of Departmental Advisory Committee, 2017-2020

Chair of Search and Screen Committee for Field Nematology Extension Specialist, 2017

Member of Plant Pathology Curriculum and Graduate Affairs Committee, 2017-2019

Member of Plant Pathology Seminar Committee, 2015-2019

Member of Graduate Faculty

Member of Varsity Research Building Feasibility Study Committee, 2015-2016

Member of CALS Innovation and Efficiency Committee, 2014

Member of Search and Screen Committee for Wood Destroying Insects Position, 2016

Member of Search and Screen Committee for Tobacco and Field Crops Extension Specialist, 2015

*Department of Plant Pathology and UW-Madison Committees*

Qualifier Exam Committee- 2010 to 2012

 Academic Affairs Committee- 2009 to 2012

 Space Committee- 2009 to 2010

 Curriculum Committee 2008 to 2009

 Ad-Hoc Committee to Select New Chair- summer 2010 to spring 2011

*Professional service off campus:*

Chair Turfgrass Working Group for American Phytopathological Society 2009-2010

Vice-Chair Turfgrass Working Group for American Phytopathological Society 2008-2009

Associate Editor for Applied Turfgrass Science 2013-2016.

Plant Pathology Society of NC – Vice President 2013 – 2014

Plant Pathology Society of NC- President 2014-2015

*Editorial Duties*:

Plant Disease 22 manuscripts and 12 plant disease notes

Crop Science 17 manuscripts

International Turfgrass Research Journal 4 manuscripts

Crop Protection 8 manuscripts

Plant Health Progress/Applied Turfgrass Science 9 manuscripts

Hort Science 3 manuscripts

Phytopathology 3 manuscripts

*Grant Panels:*

2009- Southern regional USDA IPM scientific panel member (33 proposals)

2010- Southern regional USDA IPM scientific panel member (39 proposals)

Served as ad-hoc reviewer for 3 Canadian IPM Grant Proposals

Served as ad-hoc reviewer for an Ohio State Hatch Proposal

***Mentoring Activities:***

* Supervise 1 EPA Extension Coordinator, 1 SPA Research Specialist and 1 EPA Research Associate
	+ Ernest Lee Butler EPA Extension Coordinator-Manager of Turfgrass Diagnostic Lab
	+ Yumiko Nagaoka, EPA Research Associate- Laboratory manager and conducts research projects
	+ Jill Ploetz, SPA Research Specialist- Manages fungicide efficacy program
	+ Yongsan Zeng, Visiting scholar- 2014-2015- Nematode taxonomy and dynamics
* Supervised 2 academic staff members and 1 Research Intern at UW-Madison. 2008-2012
	+ Paul Koch, Research Technician and Manager of Turfgrass Diagnostic Lab
	+ P.J. Leisch, Research Technician, 2010-2012
	+ Sam Soper, Research Intern, 2011-2012
* Supervised 19 undergraduates at NCSU and UW-Madison
	+ Elizabeth Kitchin, Undergraduate Researcher, 2020
	+ Peyton Ferguson, Undergraduate Researcher, 2020
	+ Nicolas Slipchenko, Undergraduate Research, 2017-present
	+ Halle Hampy, Undergraduate Researcher, 2016-2018
	+ Kat Nunez, Kelman Research Scholar, 2017
	+ Haley Bezerik, Undergraduate Researcher, 2016-2018
	+ Daniel Fruend, Undergraduate Researcher, 2016
	+ Wendell Hutchens, Undergraduate Researcher, 2015
	+ Joseph Doherty, Undergraduate Research Scholar, 2014-2015
	+ Megan Botti-Marino, Kelman Scholar, Summer 2013
	+ Yan Yan, Undergraduate Research Intern, Fall 2012
	+ Jeanette Shultz, Undergraduate Researcher, 2010-2012
	+ Jacob Soper, Undergraduate Researcher, 2011-2012
	+ Chen Zhang, Undergraduate Research Intern, Fall 2010
	+ Michelle Garcia, Undergraduate Research Scholar, Summer 2009
	+ Catherine Zhang, Undergraduate Research Intern, Fall 2009
	+ Sam Soper, Undergraduate Research Assistant, 2008-2011
	+ Ben VanRyzin, Undergraduate Research Assistant, 2009-2012
	+ Tom Huncosky, Undergraduate Research Assistant, 2008-2010

D. MS and PhD Graduate Student Committees:

PhDs completed as Chair or Co-Chair (Total = 3: 2 at UW-Madison and 1 at NC State)

1. 2012, Paul Koch. Associate Professor and Extension Specialist of Turfgrass Pathology, UW-Madison Department of Plant Pathology.
2. 2014, Renee Rioux. Assistant Professor of Potato Diseases and Manager of Seed Potato Lab, UW-Madison.
3. 2019, Glenn Galle. Research Scientist. Bayer Environmental Science, Cary, NC.

PhDs in progress as Chair or Co-Chair (Total = 1)

1. Cameron Stephens

PhDs completed as Committee Member (Total = 5)

1. Alyssa Koehler, 2018. Currently an Assistant Professor and Extension Specialist at the University of Delaware.
2. Emma Lookabaugh, 2017. Currently a Technical Service Representative for BASF Turf and Ornamentals.
3. Joseph Roberts, 2014. Currently an Assistant Professor and Extension Specialist of Turfgrass Pathology, Clemson University, Florence, SC.
4. Chakaborty Mattupalli, 2013. (UW-Madison)
5. Lingyun Hao, 2013. (UW-Madison)
6. Saiore Amakie, 2011. (UW-Madison)

Masters completed as Chair or Co-Chair (Total = 5)

1. 2010, Chantel Wilson. Extension Specialist/Associate Professor Steam Educator Virginia Cooperative Extension (UW-Madison)
2. 2011, Yunlong Wang. Owns a major distribution company in China. (UW-Madison)
3. 2016, Ben VanRyzin.
4. 2016, Yan Yan.
5. 2018, Wendell Hutchens. Currently in a Ph.D. program at Virginia Tech University.

Masters in progress as Chair or Co-Chair (Total =3)

1. Daniel Freund (Co-Chair with Dr. Travis Gannon)
2. Ella Reeves (Co-Chair with Dr. Barbara Shew)
3. Halle Hampy

Committee Membership for Ph.D. and MS students

1. Luke Dant, Ph.D. Clemson University, Plant Sciences.
2. Kim D’Arcangelo, Ph.D. NC State, Plant Pathology.
3. Issack Kilway, Ph.D., NC State, Plant Pathology.
4. Sarah Cochran, MS., NC State, Plant Pathology.
5. Wendell Hutchens, Ph.D., Virginia Tech, Turfgrass Pathology.