

Jack D. Fry

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PROFESSIONAL POSITIONS

July, 2000 to present, Professor (with tenure); July, 1995 to June 2000, Associate Professor (with tenure); June, 1991 to July, 1995, Assistant Professor, Department of Horticulture, Forestry and Recreation Resources, Kansas State University.

August, 1987 to June, 1991: Assistant Professor, Department of Horticulture, Louisiana State University.

EDUCATION

Ph.D., Department of Horticulture, Colorado State University, Fort Collins, Colorado, 1987.

M.S., Department of Agronomy, University of Maryland, College Park, Maryland, 1984.

B.S., Department of Horticulture, Kansas State University, Manhattan, Kansas, 1982.

ADMINISTRATION AND PROFESSIONAL LEADERSHIP

Director, Rocky Ford Turfgrass Research Center, Kansas State University, 1991- 2018.

This 10 acre facility has one full-time employee and several part-time student workers during the summer months. At least six faculty are involved in research at the location at any one time.

Co-Director, K-State's Golf Course Management and Sports Turf Operations Undergraduate Program.

Program unique in the U.S., as it incorporate a business minor, additional communications courses, and course work in hotel and restaurant management. Developed with input from Golf Course Superintendents Association of America and Sports Turf Managers Association.

Faculty member of the Golf Course Superintendents Association of America, 1998-present. Taught the course *Advanced Stress Management for Cool-Season Turfgrasses* at the international meeting and regionally through 2013. Worked with GCSAA administration to also develop this into a self-study format that can be taken with hard copy or via the web. Developed 4-hour course, *When the Golf Course Maintenance and the Rules of Golf Collide* in 2012 and *Roots First: The Key to Creeping Bentgrass Health is Underground* in 2015. Have also been involved in webcasting short courses on turfgrass stress physiology with GCSAA. Also periodically present online webinars for superintendents.

Columnist, *Golf Course Management* magazine, 2013 - . Write column every other month on how the course management can affect the way the Rules of Golf are applied, and various other topics related to the golf industry

Editor, *Applied Turfgrass Science* (e-journal), 2010-2012.

Technical Editor, *Applied Turfgrass Science* (e-journal), 2004-2009.

Associate Editorships: *HortScience*, 1995-1998; *Agronomy Journal*, 2002-2005.

Chair, C-5 (Turfgrass) Division, Crop Science Society of America, 2004. Oversaw division activities and organized poster and oral presentations (over 200) in Seattle in 2004. As past-chair in 2005 sought nominations for division offices and oversaw the graduate student oral and poster competition.

Visiting Scientist, United States Golf Association Turfgrass and Environmental Research Committee, 1995.

AWARDS

Crop Science Society of America Fellow Award, 2012.

Fred V. Grau Turfgrass Science Award, Crop Science Society of America, 2011 (recognition of outstanding accomplishment in turfgrass science over the past 15 years).

Professorial Performance Award, KSU, 2007 and 2013 (increase in base salary to faculty who have maintained high productivity).

Outstanding Research Award, Gamma Sigma Delta Eta Chapter, 2003.

Outstanding Faculty Mentor Award, KSU College of Agriculture, 2001.

Distinguished Service and Leadership Award, Kansas Turfgrass Foundation, 1996.

TEACHING EXPERIENCE SUMMARY

I have taught courses in turfgrass science and golf course management at the faculty level since 1987. Student "evaluation of instructor" scores have ranged from 4.4 to 4.9 (out of 5), and averaged 4.5. In addition to traditional teaching methods, I've taught courses online and to industry professionals.

I led the development of a Golf Course Management curriculum in 1998, with colleagues across three colleges at the university (business, hospitality, and agriculture) and the program has been recognized nationally. This curriculum combines our traditionally strong turfgrass management area with extensive coursework in communications, business and personnel management, and hospitality management. It was developed with faculty from three colleges, and with input from the Golf Course Superintendent's Association of America and the PGA-TOUR. A few years ago, we added sports turf management to the curriculum as well, with input from the Sports Turf Managers Association.

Formal courses taught

Turfgrass Management (HORT 515) at KSU one semester each year 1991 - present. Beginning in 2008 the course was split into HORT 515 (2 cr.) Basic Turfgrass Culture and HORT 516 (1 cr.) Intensive Culture of Golf and Sports Turf. Average enrollment 35 to 55 students. Also responsible for this course while at Louisiana State University in spring, 1988, 1989, and 1990. Also taught as a night course at LSU during Fall, 1988.

Golf Course Operations (HORT 517) once annually, 1995 - present. I developed this course that focuses on important issues to golf course superintendents, including personnel management, budgeting, communication skills, and the environment.

Turfgrass Science (HORT 706) at KSU each spring, 1992 - 1995. Average enrollment 10 students. Covered turfgrass stress physiology, including drought, heat, cold, and traffic.

Horticulture Internship (HORT 590) at KSU each summer. I assist students on internships each summer, with numbers ranging from 4 to over 50. Each student is required prepare a written report, and give an oral presentation upon return to campus in the fall.

Instructor, Graduate Seminar (HORT 7913), Louisiana State University. Fall, 1988 and 1990.

ADVISING EXPERIENCE

Advise 15 to 80 undergraduates each semester at KSU, 1991 - present.

Faculty Advisor to KSU Chapter of the Golf Course Superintendent's Association of America. Assisted a core group of students to form this organization in Spring, 1997. Continued as advisor until 2001 and as co-advisor thereafter.

Faculty Advisor, KSU Horticulture Club, 1995-1996.

Accompanied 15 students to Stillwater, Oklahoma for "Tornado Alley Invitational" golf tournament and turf management quiz bowl vs. Oklahoma State and Texas A & M., Fall, 1996.

Undergraduate Coordinator, Department of Horticulture, LSU, 1990-1991. Advised all (20) horticulture undergraduates.

Faculty advisor, LSU Horticulture Club, 1989-1990.

GRADUATE STUDENT TRAINING

Kansas State University

Master of Science

Ross Braun, 2014. Cultural Strategies to improve zoysiagrass acceptability and performance in the transition zone. Current position: Postdoctoral student, Purdue University

Josh Chabon, 2014. Irrigation management effects on nitrate leaching and mowing requirements of tall fescue. Current position: Grass Pad Inc. Manager, Olathe, KS

Cole Thompson. 2010. New strategies for managing dollar spot and silvery-thread moss in creeping bentgrass putting greens. Current position: Assistant Director of Research, United States Golf Association.

Qi Zhang. 2004. Evaluation of plant disease activators and calcium silicate to reduce fungicide input in creeping bentgrass and tall fescue. Current position: Associate Professor, North Dakota State University

Kiranmai Nandivada. 2000. Drought tolerance in perennial ryegrass. Current position: unknown.

Joon H. Lee. 2001. Evaluation of strategies to reduce fungicide inputs in creeping bentgrass. Current position: Chief Executive Officer, Hampyung Dynasty Country Club, Kyung-Gi, South Korea,

Derek M. Settle. 1997. Disease development in tall fescue and perennial ryegrass as affected by cultural practices. (Co-advised with Dr. Ned Tisserat) Current position: Regional Representative, Simplot, Inc., Atlanta, GA.

David E. Green II. 1993. Pathogenicity of fungi associated with a large patch disease of zoysiagrass and the influence of cultural practices on disease development. (Co-advised with Dr. Ned Tisserat). Current position: Unknown.

Doctor of Philosophy

Mingying Xiang, 2018. Evaluating zoysiagrass mixtures and genotypes for improved quality and disease reduction in the transition zone. Current position: Research Assistant at K-State.

Cole Thompson, 2014. Physiological and pathological factors influencing decline of rough bluegrass (co-advisor with Dr. Megan Kennelly). Current position: Assistant Director of Research, United States Golf Association.

Kenton Peterson, 2013. Environmental effects on turfgrass growth and water use (co-advisor with Dr. Dale Bremer). Current position: Owns own business in Nebraska.

Tony Goldsby, 2013. Establishment, drought tolerance and recovery, and canopy analysis of turfgrasses in the transition zone (co-advisor with Dr. Dale Bremer). Current position: National Research Director, The Andersons, Kansas City, MO.

David Okeyo. 2010. Growth characteristics and freezing tolerance of zoysiagrass cultivars and experimental progeny. Current position: Instructor, Maseno University, Kenya

Qi Zhang. 2007. Freezing tolerance in zoysiagrass. Current position: Associate Professor, North Dakota State University

Alan J. Zuk. 2005. Factors affecting establishment of seeded zoysiagrass in perennial ryegrass turf. Current position: Associate Professor, North Dakota State University

Jinmin Fu. 2003. Growth and physiological responses of turfgrasses to deficit irrigation. Current position: Professor of Turfgrass Science at Wuhan Botanical Garden, The Chinese Academy of Science

Hongfei Jiang. 1997. Water management on golf course turf. Current position: Senior software engineer at National Pork Producers Council, St. Louis, MO.

Yaling Qian. 1996. Drought resistance and water management of turfgrasses in Kansas. Current position: Professor, Colorado State University

Louisiana State University

Master of Science

Frederick P. Maier, 1993. Intraspecific differences in St. Augustinegrass Freezing Tolerance. Current position: General Manager, Squire Creek Golf Club, Choudrant, LA

RESEARCH EXPERIENCE SUMMARY

Since 1991, I have conducted research at Kansas State University focusing on turfgrass water management; characteristics of drought-resistant turfgrasses; freezing resistance of warm-season turfgrasses; and integrated disease and weed control. This work has resulted in over 100 peer-reviewed publications. During this time I have served as the Director of the KSU Turfgrass Research Center, editor of the KSU Turfgrass Research Report, and have been involved each year in the organization of the annual conference (800 attendance) and field day (250 attendance).

EXTRAMURAL FUNDING

Over 3 million dollars in grants since 1995.

Funding agencies: City of Wichita, Kansas Public Works Department; Golf Course Superintendent's Association of America; Heart of America Golf Course Superintendent's Association; Kansas Golf Course Superintendent's Association; Kansas Golf Association; Kansas Turfgrass Foundation; Kansas Water Resources Research Institute; Turf Producers International; United States Department of Agriculture; United States Golf Association; and Western Association of Nurserymen.

Examples of grants funded over the past ten years:

Bremer, D., J. Friell, J. Fry, and A. Patrignani. 2017-2020. Development of irrigation scheduling techniques that conserve water using soil moisture sensors, reference evapotranspiration, and turfgrass quality data. United States Golf Association. \$ 129,733.

Fry, J., M. Kennelly, and A. Patton. 2013- 2017. Evaluation of large patch resistance and cold hardiness in experimental zoysiagrasses developed for the transition zone. United States Golf Association. \$ 130,000.

Bremer, D, J. Fry, and S. Keeley. 2006-2008. Comparative irrigation requirements of thirty cultivars of Kentucky bluegrass under a large rainout shelter in the transition zone. United States Golf Association. \$ 47,058.

Bremer, D., J. Ham, L. Moley, S. Keeley, J. Fry, C. Lavis, and R. St. John. 2008-2011. Modifying homeowner's lawn-irrigation behavior to conserve water and improve water quality in urbanizing watersheds. USDA Integrated research, education, and extension competitive grant. \$ 600,000.

Kennelly, M., J. Fry, R. St. John, and D. Bremer. 2008-2010. Cultural practices, environment, and pathogen biology: studies for improved management of large patch (*Rhizoctonia solani* AG2-2). United States Golf Association. \$ 46,806.

Fry, J. 2009. Turfgrass research support. Kansas Turfgrass Foundation. \$ 7,000

Fry, J. 2009. Rocky Ford Turfgrass Research Center support. Kansas Turfgrass Foundation. \$ 12,000

Fry, J., D. Bremer, and C. Rajashekar. 2009. Freezing tolerance of new zoysiagrass progeny and identification of physiological contributors to hardiness. Heart of America Golf Course Superintendents Association. \$ 8,000.

Fry, J., Q. Zhang, R. St. John, C. Rajashekar, D. Bremer, M. Kennelly, M. Engelke, and D. Genovesi. 2007. Screening new zoysiagrass progeny for freezing, drought, and disease resistance. Kansas Agricultural Experiment Station. \$ 14,672.

Fry, J. 2005. Fungicide evaluation for control of localized dry spot and dollar spot on creeping bentgrass. Bayer Corp. \$ 7,200.

Fry, J. 2005. Fungicide evaluation for disease control on creeping bentgrass fairways. Syngenta Corp. \$ 4,000.

PROFESSIONAL PUBLICATIONS

Book

Fry, J. and B. Huang. 2004. Applied Turfgrass Science and Physiology. John Wiley and Sons, Hoboken, NJ.

E-Course

Fry, J. and B. Huang. 2001. Applied Turfgrass Physiology. Available online, on CD, and in written form through the Golf Course Superintendent's Association of America, www.gcsaa.org.

Cultivar Releases and Patents

Chandra, A., J. Fry, D. Genovesi, M. Meeks, M. Engelke, Q. Zhang, D. Okeyo, J. Moss, E. Ervin, X. Xiong, S. Milla-Lewis, J. Brosnan, L. Parson, and J. Griffin. 2017. Registration of KSUZ 0802 zoysiagrass. *J. Plant Reg.* 11:100-106. doi:10.3198/jpr2016.03.0010crc

Chandra, A., J. D. Fry, M. C. Engelke, A. D. Genovesi, B. G. Wherley, J. A. Reinert, S. P. Metz, Q. Zhang and D. Okeyo. 2015. Registration of 'Chisholm' zoysiagrass. *Journal of Plant Registrations* 2015 9: 1: 21-26doi:10.3198/jpr2014.04.0020crc

Fry, J., R. Taylor, R. Wolf, and R. Stuntz. 2008. A method and equipment for interseeding an area of ground to convert the existing vegetation to the new vegetation or to improve the quality of the existing vegetation. U.S. Patent no. 7,409,916. KSU Research Foundation Discovery 02-36.

Book Chapter

Huang, B. and J. Fry. 1999. Turfgrass evapotranspiration. *In* M.B. Kirkham (ed.) *Water Use in Crop Production*. *J of Crop Production* 2:317-333.

Refereed Journals (112 total)

Thompson, C., Q. Zhang, M. Kennelly, J. Stier, C. Blume, N. Christians, J. Fry, D. Martin, J. Ostrander, K. Rincker, D. Settle, and D. Soldat. 2018. The dollar spot susceptibility of 25 bentgrasses is consistent across five states in the central U.S.A. *Crop, Forage, and Turfgrass Management*. doi: 10.2134/cftm2018.09.0075

Alderman, E., J. Hoyle, J. Fry, and S. Keeley. 2017. Buffalograss divot recovery as affected by nitrogen source and rate. *Crop, Forage, and Turfgrass Management*: doi:10.2134/cftm2016.06.0044.

Braun, R., J. Fry, M. Kennelly, D. Bremer, and J. Griffin. 2017. Single and sequential colorant application effects on buffalograss and zoysiagrass color during dormancy. *HortTechnology* 27:393-398.

Chabon, J., D. Bremer, J. Fry, and C. Lavis. 2017. Effects of soil moisture-based controllers, mowing height, and trinexapac ethyl on tall fescue irrigation amounts and mowing requirements. *International Turfgrass Research Journal* 13:1-6.

Fry, J., A. Chandra, D. Genovesi, K. Morris, and M. Xiang. 2017. Winter injury of fine-textured interspecific *Zoysia* hybrids in the upper transition zone of the USA. *International Turfgrass Research Journal* 13:1-3

Obasa, K., J. Fry, D. Bremer, and M. Kennelly. 2017. Evaluation of spring and fall fungicide applications for large patch management in zoysiagrass. *International Turfgrass Research Journal* 13:1-7.

Thompson, C., M. Kennelly, J. Fry, M. Sousek, and Z. Reicher. 2017. Physiological and pathogenic contributors to the summer decline of *Poa trivialis*. *International Turfgrass Research Journal* 13:1-9.

Thompson, C., J. Fry, R. Braun, and M. Kennelly. 2017. Rough bluegrass incidence in a new tall fescue sward as affected by seeding rate and mowing height. *Crop, Forage and Turfgrass Management* 3:1-4.

Braun, R., J. Fry, M. Kennelly, D. Bremer, and J. Griffin. 2016. Colorant application volume and color persistence on a 'Chisholm' zoysiagrass lawn. *HortTechnology* 26:314-319.

Miller, G., D. Earlywine, R. Braun, J. Fry, and M. Kennelly. 2016. Influence of nitrogen source and application timing on large patch of zoysiagrass. *Crop, Forage, and Turfgrass Management*: doi:10.2134/cftm2015.0189

Thompson, C., Z. Reicher, M. Sousek, J. Fry, and M. Kennelly. 2016. Evaluation of selective herbicide combinations and paclobutrazol for rough bluegrass control. *Crop, Forage, and Turfgrass Management: Crop Forage Turfgrass Manage* doi:10.2134/cftm2015.0123.

Goldsby, A., D. Bremer, J. Fry, and S. Keeley. 2015. Response and recovery characteristics of Kentucky bluegrass cultivars to extended drought. *Crop, Forage, and Turfgrass Management*. doi:10.2134/cftm2014.0087

Peterson, K.W., D. Bremer, and J. Fry. 2015. Evaluation of atmometers within urban home microclimates. *Crop Sci.* 2015 55: 5: 2359-2367 doi:10.2135/cropsci2015.02.0073

Domenghini, J.C., D.J. Bremer, S.J. Keeley, J.D. Fry, C.C. Lavis, and S.J. Thien. 2014. Assessing student learning with surveys and a pre-/post-test in a new online landscape water issues course. *Natural Sciences Education* 43:109-116.

Fry, J. and J. Kruse. 2014. Applicator and Primo effects on the persistence of painted golf course water hazard and out-of-bounds lines on bermudagrass. *Applied Turfgrass Science*: DOI 10.2134/ATS-2014-0037-RS.

Peterson, K.W., J.D. Fry, and D.J. Bremer. 2014. Growth responses of *Zoysia* spp. under tree shade in the Midwestern United States. *HortScience* 49:1444-1448.

Thompson, C. and J. Fry. 2014. Recovery of 'Chisholm' zoysiagrass after sod harvest as affected simazine and nitrogen fertility. *Applied Turfgrass Sci.*: DOI 10.2134/ATS-2013-0031-BR.

Thompson, C., J. Fry, M. Kennelly, M. Sousek, and Z. Reicher. 2014. Seasonal timing of glyphosate application influences *Poa trivialis* control. *Applied Turfgrass Sci.*: DOI 10.2134/ATS-2013-0044-BR.

Bremer, D.J., S.J. Keeley, A. Jager, and J.D. Fry. 2013. Lawn-watering perceptions and behaviors of residential homeowners in three Kansas cities. *International Turfgrass Res. J.* 12:23- 29.

Domenghini, J.C., D.J. Bremer, J.D. Fry, and G.L. Davis. 2013. Evapotranspiration and performance among turfgrass and ornamental landscape species in response to irrigation deficit. *International Turfgrass Res. J.* 12:405-414.

Domenghini, J.C., D.J. Bremer, J.D. Fry, and G.L. Davis. 2013. Prolonged drought and recovery responses of Kentucky bluegrass and ornamental groundcovers. *HortScience* 48:1209-1215.

Goldsby, A.L. and J.D. Fry. 2013. Evaluation of turf reinforcement mats for establishment of buffalograss and zoysiagrass from vegetative plugs. *International Turfgrass Res. J.* 12: 193-196.

- Obasa, K., J. Fry, R. St. John, and M. Kennelly. 2012. Effect of cultivation timing and nitrogen fertilization on large patch disease of zoysiagrass. *Plant Disease* 97:1075-1081.
- Bremer, D.J., S. J. Keeley, A. Jager, J.D. Fry, and C. Lavis. 2012. In-ground irrigation systems affect lawn watering behaviors of residential homeowners. *HortTechnology* 22: 651-658.
- Lewis, J., D. Bremer, S. Keeley, and J. Fry. 2012. Wilt-based irrigation in Kentucky bluegrass: Effects on visual quality and irrigation amounts among cultivars. *Crop Sci.* 52:1881-1890.
- Obasa, K., J. Fry, and M. Kennelly. 2012. Susceptibility of zoysiagrass germplasm to large patch caused by *Rhizoctonia solani*. *HortScience* 47:1252-1256.
- Fry, J. and R. Cloyd. 2011. Zoysiagrass genotypes differ in susceptibility to the bluegrass billbug, *Sphenophorus parvulus*. *HortScience* 46:1314-1316.
- Okeyo, D., J. Fry, D. Bremer, A. Chandra, D. Genovesi, and M. Engelke. 2011. Stolon growth and tillering of experimental zoysiagrasses in shade. *HortScience* 46:1-5.
- Okeyo, D., J. Fry, D. Bremer, A. Chandra, D. Genovesi, and M. Engelke. 2011. Stolon growth characteristics and establishment rates of zoysiagrass progeny. *HortScience* 46:113-117.
- Okeyo, D., J. Fry, D. Bremer, C. Rajashekar, M. Kennelly, A. Chandra, D. Genovesi, and M. Engelke. 2011. Freezing tolerance and seasonal color of experimental zoysiagrasses. *Crop Sci.* 51:1-6.
- Thompson, C., M. Kennelly, and J. Fry. 2011. Evaluation of conventional and alternative products for silvery-thread moss control in creeping bentgrass. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2011-1018-01-RS.
- Thompson, C., M. Kennelly, and J. Fry. 2011. Effect of nitrogen source on silvery-thread moss on a creeping bentgrass putting green. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2011-1018-02-RS.
- Okeyo, D., J. Fry, R. St. John, A. Chandra, D. Genovesi, and M. Engelke. 2010. Recovery growth of Meyer and experimental zoysiagrass progeny after sod harvest. *Applied Turfgrass Sci.* doi:10.1094/ATS-2010-1203-01-RS.
- Fu, J., B. Huang, and J. Fry. 2010. Osmotic potential, sucrose level, and activity of sucrose metabolic enzymes in tall fescue leaves in response to deficit irrigation. *J. Am. Soc. Hort. Sci.* 135:506-510.
- Kennelly, M., D. Settle, T. Todd, and J. Fry. 2010. Moss control on creeping bentgrass greens with standard and alternative approaches. *HortScience* 45:654-659.
- St. John, R., J. Fry, D. Bremer, and S. Keeley. 2009. Establishment rate and lateral spread of *Festuca arundinacea* cultivars. *International Turfgrass Soc. Research J.* 11: 481-487.
- Su, K., D. Bremer, S. Keeley, and J. Fry. 2009. Mowing and drought effects on a hybrid and Kentucky bluegrass. *International Turfgrass Soc. Research J.* 11: 871-882.

- Zhang, Q., J. Fry, X. Pan, C. Rajashekar, D. Bremer, M. Engelke, and X. Wang. 2009. Acclimation of *Zoysia japonica* and *Z. matrella* and changes in rhizome abscisic acid levels. *International Turfgrass Soc. Research J.* 11:883-892.
- Zhang, Q., J. Fry, C. Rajashekar, D. Bremer, and M. Engelke. 2009. Membrane polar lipid changes in zoysiagrass rhizomes and their potential role in freezing tolerance. *J. Am. Soc. Hort. Sci.* 134:322-328.
- Patton, A.J., M.D. Richardson, D.E. Karcher, J.W. Boyd, Z.J. Reicher, J.D. Fry, J.S. McElroy, and G.C. Munshaw. 2008. A guide to establishing seeded bermudagrass in the transition zone. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2008-0122-01-MD.
- Su, K., D. Bremer, S. Keeley, and J. Fry. 2008. Rooting characteristics and responses to drought of turfgrasses including hybrid bluegrasses. *Agron. J.* 100:949-956.
- Fry, J., R. Taylor, B. Wolf, D. Stuntz, and A. Zuk. 2007. Development of a strip seeder for converting cool-season turf to seeded bermudagrass. *HortTechnology* 17:363-367.
- Fu, J., J. Fry, and B. Huang. 2007. Growth and carbon metabolism of tall fescue and zoysiagrass as affected by deficit irrigation. *HortScience* 42:378-381.
- Fu, J., J. Fry, and B. Huang. 2007. Tall fescue rooting as affected by deficit irrigation. *HortScience* 42:688-691.
- Settle, D., T. Todd, J. Fry, and N. Tisserat. 2007. Quantifying the effects of lance nematode parasitism in creeping bentgrass. *Plant Disease* 91:1170-1179.
- Su, K., D. Bremer, S. Keeley, and J. Fry. 2007. Effects of high temperature and drought on a hybrid bluegrass compared with Kentucky bluegrass and tall fescue. *Crop Sci.*47:2152-2161.
- Bremer, D. J., K. Su, S.J. Keeley, and J.D. Fry. 2006. Performance in the transition zone of two hybrid bluegrasses compared with Kentucky bluegrass and tall fescue. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2006-0808-02-RS.
- Patton, A. J., Z.J. Reicher, A.J. Zuk, J.D. Fry, M.D. Richardson, and D.W. Williams. 2006. A guide to establishing seeded zoysiagrass in the transition zone. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2006-1004-01-MG.
- Settle, D.M., J.Fry, T. Todd, and N. Tisserat. 2006. Population dynamics of the lance nematode (*Hoplolaimus galeatus*) in creeping bentgrass. *Plant Disease* 90:44-50.
- Zhang, Q., J. Fry, K. Lowe, and N. Tisserat. 2006. Evaluation of calcium silicate for dollar spot and brown patch suppression on turfgrasses. *Crop Sci.* 46:1635-1643.
- Zuk, A.J. and J.D. Fry. 2006. Inhibition of 'Zenith' zoysiagrass seedling emergence and growth by perennial ryegrass leaves and roots. *HortScience* 41:818-821.
- Fry, J., T. McClellan, and S. Keeley. 2005. Ball mark repair and creeping bentgrass recovery. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2005-0801-01-RS.

Iriarte, F.B., H.C. Wetzell III, J.D. Fry, D.L. Martin, P. Vincelli, E.W. Dixon, and N.A. Tisserat. 2005. Aggressiveness of spring dead spot pathogens to bermudagrass. *Intl. Turfgrass Research Soc. J.* 10:258-264.

Settle, D.M., T.C. Todd, J.D. Fry, and N.A. Tisserat. 2005. Influence of soil temperature on host suitability of eight turfgrass species to the lance nematode (*Hoplolaimus galeatus*). *Intl. Turfgrass Research Soc. J.* 10:265-272.

Zhang, Q., J. Fry, and N. Tisserat. 2005. Evaluation of plant disease activators for dollar spot and brown patch suppression in creeping bentgrass. *Intl. Turfgrass Research Soc. J.* 10:180-185.

Zuk, A., D. Bremer, and J. Fry. 2005. Establishment of seeded zoysiagrass in a perennial ryegrass sward: effects of soil-surface irradiance and temperature. *Intl. Turfgrass Research Soc. J.* 10:302-309.

Zuk, A.J. and J.D. Fry. 2005. Seeded zoysiagrass establishment in a perennial ryegrass sward. *Crop Sci.* 45:1521-1528.

Fu, J., J. Fry, and B. Huang. 2004. Minimum water requirements of four turfgrasses in the transition zone. *HortScience* 39:1740-1744.

Iriarte, F.B., J.D. Fry, D.L. Martin, T.C. Todd, and N.A. Tisserat. 2004. Effect of cold acclimation and freezing on spring dead spot severity in bermudagrass. *HortScience* 40:421-423.

Iriarte, F.B., H. C. Wetzell III, J. D. Fry, D. L. Martin, and N. A. Tisserat. 2004. Genetic diversity and aggressiveness of *Ophiosphaerella korrae*, a cause of spring dead spot of bermudagrass. *Plant Disease* 88:1341-1346.

Frank, K.W., R.E. Gaussoin, T.P. Riordan, R.C. Shearman, J.D. Fry, E.D. Miltner, and P.G. Johnson. 2004. Nitrogen rate and mowing height effects on turf-type buffalograss. *Crop Sci.* 44:1615-1621.

Lee, J., J. Fry, and N. Tisserat. 2003. Dollar spot and brown patch incidence in creeping bentgrass as affected by acibenzolar-S-methyl and biostimulants. *HortScience* 38:1223-1226.

Lee, J., J. Fry, and N. Tisserat. 2003. Dollar spot in four bentgrass cultivars as affected by acibenzolar-S-methyl and organic fertilizers. Online. *Plant Health Progress* doi:10.1094/PHP-2003-0626-01-RS.

Fry, J., S. Keeley, and J. Lee. 2002. Sulfur level and timing effects on *Agrostis palustris* injury and soil pH. p. 676-681. In E. Thain (ed.) *Science and Golf IV*. Routledge Press, London.

Frank, K.W., R.E. Gaussoin, J.D. Fry, M.D. Frost, and J.B. Baird. 2002. Nitrogen, phosphorus, and potassium effects on seeded buffalograss establishment. *HortScience* 37:371-373.

Settle, D., J. Fry, and N. Tisserat. 2001. Development of brown patch and Pythium blight in tall fescue as affected by irrigation frequency, clipping removal and fungicide application. *Plant Disease* 85:543-546.

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Publications in Trade Journals

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- Fry, J. 2018. Through the green: Becoming an outside agency. GCM. October.
- Fry, J. 2018. Through the green: The grass at the PGA Championship. GCM. August.

- Fry, J. 2018. Through the green: Latitudes and putting surfaces. GCM. June.
- Fry, J. 2018. Through the green: The grass at the Masters. April.
- Fry, J. 2018. Through the green: Advances in warm-season grasses. February.
- Kennelly, M. and J. Fry. 2018. Don't get overmatched: dispatch that large patch. Golfdom. July. p. 30-34.
- Fry, J. 2017. Through the green: Where have all the students gone? Golf Course Management. February. p. 74.
- Fry, J. 2017. Through the green: Teeing off. Golf Course Management. April. p. 70.
- Fry, J. 2017. Through the green: A new look for the Rules of Golf. Golf Course Management. June. p. 74.
- Fry, J. 2017. Through the green: A new look for the Rules of Golf – Part II. Golf Course Management. August.
- Fry, J. 2016. Through the green: A New Year's (golf) ball drop. Golf Course Management. February. p. 96.
- Fry, J. 2016. Through the green: Doing the opposite. Golf Course Management. April. p. 82.
- Fry, J. 2016. Through the green: Mowing heights and the rules of golf. Golf Course Management. June. p. 78.
- Fry, J. 2016. Through the green: Going for the green – and the gold. Golf Course Management. August. p. 60.
- Fry, J. 2016. Through the green: A dilemma in high definition. Golf Course Management. October. p. 80.
- Fry, J. 2016. Through the green: Revenge of the trees. Golf Course Management. December. p. 68.
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- Fry, J. 2015. Through the green: Nearest point of relief. Golf Course Management. April. p. 84.
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- Fry, J. 2014. Through the green: The weed czar of the putting green. Golf Course Management. Feb. p. 92.
- Fry, J. 2014. Through the green: A divot dilemma. Golf Course Management. April. p. 88.
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- Fry, J. 2014. Through the green: Moveable obstructions. *Golf Course Management*. August. p. 84.
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- Fry, J. 2014. Through the green: Walking the environmental walk. *Golf Course Management*. December. p. 78.
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- Fry, J. 2013. Through the Green: The rules of golf and its fine lines. *Golf Course Management*. Oct. p. 80.
- Fry, J. 2013. Through the Green: Easing the pain of lateral hazards. *Golf Course Management*. August. p. 70.
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- Fry, J., Q. Zhang, K. Lowe, and N. Tisserat. 2006. Calcium silicate doesn't strengthen creeping bent, tall fescue against foliar disease. *Turfgrass Trends*. April 2006. Online at turfgrasstrends.com.
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- Fry, J. 2002. Practice, use the "C" word. *Golf Course Management* 70:176.
- Fry, J., D. Settle, and N. Tisserat. 2001. Bentgrass cultivar selection influences disease management strategy. *Golf Course Management* 69 (12):54-58.
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- Huang, B., X. Liu, and J. Fry. 2000. Hard summer mowing weakens bentgrass turf. *Golf Course Management* 68(3):60-62.
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- Fry, J., N. Tisserat, and H. Jiang. 1998. Irrigation management and turfgrass pests. *Golf Course Management* 66 (6):56-60.
- Fry, J. 1996. Control crabgrass with fall-applied preemergents. *Grounds Maint.* 31 (7):12, 13, 16.
- Fry, J.D. And Y.L. Qian. 1996. Irrigation frequency and turfgrass performance. *Golf Course Management* 64(5):49-51.
- Fry, J.D. 1995. Establishing buffalograss. *Golf Course Management* 63(4):58-60.
- Fry, J.D., S.C. Wiest, and W. Upham. 1993. Measuring turf ET. *Grounds Maint.* 28:52, 54, 58.
- Fry, J.D. 1993. Select right grass for use in shade. *Northern Turf Management*. August. p. 18.
- Fry, J.D. 1993. Turfgrass prepares for winter dormancy. *Northern Turf Management*. September. p. 16-17.
- Fry, J.D. 1993. Genetic diversity strengthens turf. *Northern Turf Management*. July. p. 1-4.
- Fry, J.D. 1993. Is turf taking a bad rap on water conservation? *Northern Turf Management*. June. p. 20-21. (Reprinted in *Kansas Grass Roots*, p. 14. *Heartbeat*, p. 19, 23.)
- Fry, J.D. 1993. Adjust in-ground sprinklers to changing water requirements. *Northern Turf Management*. May. p. 16-17.
- Fry, J.D. 1993. Genetic diversity strengthens turf. *Northern Turf Management*. p. 1,4.
- Fry, J.D. 1992. Too much water. *Grounds Maint.* 27:20-22.
- Fry, J.D. 1992. Overseeding adds winter green in transition zone. *Northern Turf Mangt.* p. 1-5. October.
- Fry, J.D. 1991. Freezing resistance of southern turfgrasses. *Lawn and Landscape Maintenance* 12(1):48-51.
- Fry, J.D. 1990. Cold temperature tolerance of bermudagrass. *Golf Course Management* 58 (10):26-32.
- Fry, J.D. 1990. Conserving water with tall fescue and deficit irrigation. *Golf Course Management* 58 (7):46-52.

Fry, J.D. 1988. Effects of preemergence herbicides on turfgrass root growth. *Lawn Care Industry* 12:26-27.

Fry, J.D. 1985. Zoysia-pros and cons. *Grounds Maintenance* 21:96-100.

Newsletters

Fry, J. 2013. Adding color to dormant warm-season turfgrasses. *Turfnews*. October.

Fry, J. 2012. Water a major issue in 2012 – ready for next year? *Turfnews*. October.

Fry, J. 2012. Suppressing bermuda in zoysiagrass. *Turfnews*. April.

Thompson, C., M. Kennelly, and J. Fry. 2012. Creeping bentgrass cultivars and dollar spot susceptibility under fairway and green management. *Turfnews*. January.

Fry, J. 2011. Forty tips to reduce golf course maintenance costs. *Turfnews*. October.

Fry, J. 2010. Water management on greens during midsummer is tricky business. *Turf News*. October. p. 3

Fry, J. 2010. The thing about creeping bentgrass is...*Turf News*. October. p. 7-8.

Fry, J. 2009. Tall fescue roots respond to irrigation. *KTF Newsletter*. January.

Fry, J. 2009. Winterizing your turf. *KTF Newsletter*. October.

Fry, J. 2008. Planning for the inevitable. *KTF News*. January issue. p. 2-3.

Fry, J., Q. Zhang, D. Okeyo, M. Engelke, and D. Genovesi. 2008. Making strides toward an improved zoysia cultivar for use in the transition zone. *KTF News*. October issue. p. 4-5.

Keeley, S. and J. Fry. 2008. New sports turf curriculum at K-State. *KTF News*. April issue. p. 2.

Fry, J. 2007. Ten tips for improving the quality of your sports turf on a limited budget. *TurfNews*. January.

Fry, J. 2007. Preemergence herbicides for goosegrass control. April.

Fry, J. 2006. A safer, more effective approach to suppressing bermudagrass in zoysia. *TurfNews*. July

Fry, J. 2006. Calcium silicate doesn't help disease woes on creeping bentgrass or tall fescue. *TurfNews*. February.

Fry, J. 2006. Zoysiagrass project update. *Heartbeat* (Publication of the Heart of America Golf Course Superintendents Association). March. p. 25, 30, 32.

Fry, J. 2004. Converting cool-season turfs to seeded bermudagrass with less inconvenience and less money. *TurfNews*. The *KTF Newsletter*. January.

Fry, J., J. Lee, and N. Tisserat. 2003. Effects of a defense activator and biostimulants on bentgrass diseases. TurfNews The KTF Newsletter. January.

Fry, J., J. Lee, and N. Tisserat. 2002. Do organic fertilizers reduce turf diseases? TurfNews The KTF Newsletter. July

Fry, J. 2002. Use and practice the “C” word, by all means. TurfNews The KTF Newsletter. January.

Zuk, A. And J. Fry. 2001. Have you considered seeding zoysiagrass? Turf News - The KTF Newsletter. January.

Fry, J. 2001. Why some grasses are efficient water users. Turf News - The KTF Newsletter. April.

Fry, J. and L. Parsons. 2001. Zoysia and bermuda cultivar survival after the 2000-2001 winter. Turf News - The KTF Newsletter. July.

Fry, J. 2001. Is your turf biostimulated? Turf News - The KTF Newsletter. September.

Fry, J. 2000. Bermudagrass recommendations for Kansas. Turf News - The KTF Newsletter. July.

Fry, J., D. Settle, and N. Tisserat. 2000. Bentgrass cultivar selection influences disease management strategy. Kansas Golf Course Superintendent’s Newsletter. December. p. 15-17.

Settle, D., N. Tisserat, and J. Fry. 2000. Cultural management of diseases in tall fescue. Turf News - The KTF Newsletter. April.

Fry, J. 1999. Crabgrass emergence and herbicide application. Turf News-The KTF Newsletter. April.

Fry, J. 1999. Manage the “Big Three” now to improve quality in July and August. Turf News-The KTF Newsletter. April.

Fry, J. 1999. Golf course superintendents thinking about using sulfur on greens-think again. Turf News-The KTF Newsletter. June.

Fry, J. 1998. When it comes to new turf products - caveat emptor. Turf News-The KTF Newsletter. June.

Fry, J. 1998. The changing face of the golf course superintendent profession. Tee to Green (Publication of the Louisiana/Mississippi Golf Course Supt. Assoc.). p. 12.

Fry, J. and S. Starrett. 1997. Research and education plans outlined for Colbert Hills golf course. Turf News-The KTF Newsletter. October.

Fry, J. and N. Tisserat. 1996. An overview of significant research accomplishments since 1990. Turf news-The KTF Newsletter. April.

Fry, J. and R. Stuntz. 1994. Kansas Golf Association and Kansas Turfgrass Foundation join forces to support turf research. Turf News - The KTF Newsletter. February.

- Fry, J. 1994. Turfgrass research - what's in it for the golfer. Turf News - The KTF Newsletter. February.
- Fry, J.D. 1993. Neither rain, nor sleet, nor snow can prevent the irrigation system from coming on. Turf news - The KTF Newsletter. January.
- Fry, J.D. 1993. A new herbicide for yellow nutsedge control on the horizon. Kansas Grass Roots. Jan.-Feb. p. 10.
- Fry, J.D. 1993. Breaking the ice. Turf News - The KTF Newsletter. January.
- Fry, J.D. 1992. Back to the future: Cultural practices to reduce turf pest problems. Turf News - KTF Newsletter. p. 2. January.
- Fry, J.D. and J. Pair. 1992. New bermudagrasses for use in the transition zone. KTF Newsletter. p. 3. July.
- Fry, J.D. 1992. Wichita funds K-State turf water research. Grassroots. December.
- Fry, J.D. 1990. Teaching and Research at LSU. Tee to Green- Louisiana/Mississippi Golf Course Superintendent's Publication. p. 7-8.
- Fry, J.D. 1988. Turfgrass cultivation. Louisiana Turfgrass Bulletin, Winter, Vol. 25.
- Fry, J.D. 1988. Vegetative turfgrass establishment. Louisiana Turfgrass Bulletin, Spring, Vol. 25.

PROFESSIONAL ACTIVITIES

Member: American Society for Horticultural Science
 American Society of Agronomy
 Crop Science Society of America
 Golf Course Superintendent's Association of America
 Heart of America Golf Course Superintendent's Assoc.
 International Turfgrass Society
 Kansas Golf Course Superintendent's Assoc.
 Kansas Turfgrass Foundation
 Louisiana Turfgrass Association
 United States Golf Association

Faculty/Student Exchange Development with Monterrey Tech, Monterrey, Mexico, 2002.

Scientific Advisory Group for Environmental/Turfgrass Area for World Scientific Congress of Golf, 2002, St. Andrews, Scotland.

Consultant, Green Team at Western Resources Energy Corp., St. Marys, Kansas.

Committees

Golf Course Superintendent's Association of America

Environmental Leaders in Golf Awards Selection Committee, 2018
Agronomic task force, 2009
Faculty Resource Group Committee, 1999
Education Committee, 2002.

United States Golf Association, 1994-1995

Turfgrass and Environmental Research Committee, Visiting Scientist

Crop Science Society of America

Fellows selection committee, 2014-2016

Fred V. Grau Turfgrass Science Award selection committee, 2015-2017

Chair, C-5 (Turfgrass) Division, 2004.

Editorial review committee for Turfgrass (C-5), 1994-1997.

Secretary (1989), Chair (1990-1993), Current Issues Committee - identified issues of greatest concern to division C-5 (Turf).

Session Chair, Turfgrass Physiology session, 1992 and Turfgrass Nutrition session, 1989 and 1996.

Judge, graduate student paper competition, American Society of Agronomy Meetings, Las Vegas, Nevada, 1989.

North Central Region - 192 (Regional Turfgrass Information Exchange Group)

Chair, 2001

Secretary, 2000

Kansas State University

Promotion and Tenure Committee, Horticulture, 2003-.

Departmental Committee on Planning, Horticulture, 2003-present.

K-State Research and Extension Five-year Planning Committee, 2002-2003.

Annual Agriculture Research and Extension Conference Committee, 2002.

Graduate Committee, 1994-present.

Undergraduate Curriculum Committee, 1997-2002.

Advisory Committee on Campus Development, 1993.

Chair, Horticulture Seminar Committee, 1993-1995.

Internship and Basic Horticulture Course committees, 1993 (Horticulture curriculum revision).

Ornamental Position Search Committee, 1993.

Turfgrass Position Search Committee -1991, 1992, 1996, 2001, and 2009.

Faculty Productivity Guidelines Committee - 1992.

Louisiana State University, 1987-1990

Horticulture Departmental Policy Committee, 1989-1991 - This four-member committee acted as a governing board for the Department of Horticulture.

Graduate Student Policy Committee, Department of Horticulture - Screened graduate applicants, monitored student progress, and upheld guidelines as stated in the Graduate Student Policy Manual.

Environmental Management Systems Curriculum Committee, College of Agriculture - Assisted in development of new "Turf and Landscape Management" curriculum.

College of Agriculture Scholarship Committee - Screened scholarship applicants and awarded monies.

College of Agriculture Faculty Policy Committee - Elected by Horticulture faculty to serve on committee that acts as a communication link between administration and faculty in the College of Agriculture.

Additional activities:

Invited International Conference Presentations:

New Zealand Fine Turf Seminar, 2015

Australian Golf Course Superintendents Association, 2015

Hong Kong Golf Course Superintendents Association, 2015

Singapore Grounds Managers, 2015

Quebec Golf Course Superintendents, 2015

Canadian International Turfgrass Conference – Vancouver (2014)

Nova Scotia Golf Course Superintendents Meeting – Halifax (2013)

Ontario Golf Course Superintendents Association – Windsor (2011); Toronto (2013); Vancouver (2014)

Canadian Golf Course Superintendents Association – Calgary and Vancouver (2008)

Toyo Green Turfgrass Conference, Tokyo, Japan, 2006 (invited)

Guelph Turfgrass Conference, Guleph, Ontario, Canada, 1994

International Turfgrass Society Meetings

New Brunswick, NJ - 2017

Beijing, China - 2013

Llandudno, Wales - 2005

Toronto, Canada - 2001

Sydney, Australia - 1997

West Palm Beach, Florida - 1993

World Scientific Congress of Golf, St. Andrews, Scotland, 2002

International Golf Course Superintendent's Meeting, 1992, 1993, 1995, 1997, 1998-2005, 2007-2018

Turf Producers International, East Lansing, MI, 1999; Phoenix, AZ 2018

Domestic Conference Speaking Invitations:

New England Turfgrass Conference, 2014 and 2016
Carolinas Golf Course Superintendents, 2012 and 2015
Professional Lawn Care Assoc. of Mid-America, 1994, 1995, and 1996
Nebraska Turfgrass Conf., 1993, 1996, 1999, 2008
Kansas Turfgrass Conf., 1991-present
Rocky Mountain Regional Turfgrass Conf., 1985-1987, 1992
Iowa Turfgrass Conf., 1992, 2007, 2011
Maryland Turfgrass Conf., 1983, 1992, 2007
TVA Fertilizer Workshop, 1991
Mississippi Turfgrass Conf., 1991
Louisiana Turfgrass Conference, 1987-1991
Missouri Turfgrass Conference, 1998, 2002
North Carolina Turfgrass Conference, 2004
Virginia Turfgrass Conference, 1997
South Dakota Turfgass Conference, 1998

Hosted National Institute on Parks and Grounds Management Conference, Baton Rouge, LA - March, 1991.

Hosted the Southern Turfgrass Research Information Exchange Meetings - Louisiana State University, June, 1990.

Reviewer: *Applied Turfgrass Science*
Crop, Forage, and Turfgrass Management
HortScience
HortTechnology
Journal of the American Society for Horticultural Science
Agronomy Journal
Journal of Environmental Quality
Crop Science

PARTICIPATION AT PROFESSIONAL MEETINGS:

American Society of Agronomy Meetings
Baltimore, MD 2018
Phoenix, AZ 2016
Long Beach, 2014

Cincinnati, Ohio, 2012
San Antonio, 2011
Long Beach, 2010
Pittsburgh, 2009
Houston, 2008
Indianapolis, 2006
Salt Lake City, 2005
Seattle, 2004
Denver, 2003
Indianapolis, 2002
Minneapolis, 2000
Salt Lake City, Utah, 1999
Baltimore, Maryland, 1998
Indianapolis, Indiana, 1996
Seattle, Washington, 1994
Minneapolis, Minnesota - 1992
Denver, Colorado - 1991
San Antonio, Texas - 1990
Las Vegas, Nevada - 1989
Anaheim, California - 1988
Atlanta, Georgia - 1987
New Orleans, Louisiana - 1986
Chicago, Illinois - 1985
Washington, D.C. - 1983

American Society for Horticultural Science Meetings

Orlando, Florida - 2000
Montreal, Canada -1995

Western Region Conference Committee-16 (Turf)

Tucson, Arizona, 1994

North Central Region -192 (Turf) Group

New Brunswick, NJ - 2017
Chicago, IL - 2016
West Lafayette, IN - 2014
East Lansing, MI - 2009
Deadwood, SD - 2005
Lincoln, Nebraska - 2004
Minneapolis, Minnesota - 2003
Columbia, Missouri - 2002
Manhattan, Kansas - 2001 (served as Chair)
Northbrook, Illinois - 2000 (served as Secretary)
East Lansing, Michigan - 1999
Ames, Iowa - 1998
Fort Collins, CO-1996
West Palm Beach, Florida - 1993
Columbus, Ohio - 1992

Southern Region Information Exchange Group - Turf
Baton Rouge, Louisiana - 1990 (served as Chair)
Stone Mountain, Georgia - 1989
Knoxville, Tennessee - 1988

Southern Weed Science Society Meetings
Nashville, Tennessee - 1988