

JASON J. HENDERSON

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EDUCATION:

- Doctor of Philosophy (Ph.D.), Michigan State University, East Lansing, MI** 2003
Crop and Soil Sciences
- Master of Science (MS), Michigan State University, East Lansing, MI** 2000
Crop and Soil Sciences
- Bachelor of Science (BS), Pennsylvania State University, University Park, PA** 1997
Agricultural Systems Management

PROFESSIONAL EXPERIENCE:

- Associate Professor, Turfgrass and Soil Sciences** August 2013-Present
University of Connecticut, Storrs, CT
- Assistant Professor, Turfgrass and Soil Sciences** 2005-2013
University of Connecticut, Storrs, CT
- Soil and Turfgrass Consultant** Feb. 2004-Oct. 2004
Hummel & Co., Inc., Trumansburg, NY
- Research Assistant** 2000-2003
Michigan State University, East Lansing, MI
- Athletic Field Manager/Research Assistant** 1997-2000
Michigan State University, East Lansing, MI
- Sports Turf Management Intern, Beaver Stadium** 1996
Pennsylvania State University, University Park, PA

TEACHING EXPERIENCE:

- Course Instructor* Fall 2005-Present
- SAPL 300, Introduction to Soil Science
University of Connecticut (A.A.S students only)
- Course Instructor* Spring 2006- Present
- SOIL 3520, Urban and Sports Turf Soils,
University of Connecticut (A.A.S. and B.S. students)
- Course Instructor* Fall 2008-Present
- TURF 2200, Athletic Field Management, even years only
University of Connecticut (A.A.S. and B.S. students)
- Laboratory Instructor* Fall 2002
- CSS 232, Introduction to Turfgrass Management, 17 students
in section, 100 students in class, Michigan State University

- CSS 232, Intro to Turfgrass Management, 20 students in section, 100 students in class, Michigan State University

PEER REVIEWED PUBLICATIONS:

- Li, D., J. Henderson, J. T. Vanini, and J. N. III Rogers. 2013. Research tools and technologies for turfgrass establishment. In Stier, J. C., B.P. Horgan, and S.A. Bonos (eds.) *Turfgrass: Biology, Use, and Management*. Madison, Wisconsin: American Society of Agronomy: p. 1189-1240.
- Miller, N. A., and J. J. Henderson. 2013. Organic management practices on athletic fields: Part 2: The Effects on Playing Surface Characteristics and Soil Physical Properties. *Crop Sci.* 53(2):p. 637-646
- Miller, N. A., and J. J. Henderson. 2012. Organic management practices on athletic fields: Part 1: The effects on color, quality, cover, and weed populations. *Crop Sci.* 52(2):p. 890-903.
- Miller, N.A. and J.J. Henderson. 2011. Correlating Particle Shape Parameters to Bulk Properties and Load Stresses at Two Water Contents. *Agron. J.* 103:1514-1523.
- Miller, N.A. and J.J. Henderson. 2010. Quantifying Sand Particle Shape Complexity Using a Dynamic, Digital Imaging Technique. *Agron. J.* 102: 1407-1414.
- Henderson, J., Miller, N., Guillard, K., Harel, O., and Raman, B. 2009. Late fall sod installation produces equivalent or greater rooting strength of *Poa pratensis* than typical spring installations during the subsequent growing season. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2009-0724-01-RS.
- Richards, J. S., Karcher, D. E., Nikolai, T. A., Henderson, J. J., and Sorochan, J. C. 2009. A comparison of two devices used to measure golf course putting green speed. Online. *Applied Turfgrass Science* doi:10.1094/ATS-2009-0724-02-RS.
- Henderson, J. J., J. N. III Rogers, and J. R. Crum. 2009. The effects of natural and artificial root zone inclusions on the playing surface characteristics of trafficked Kentucky bluegrass. *Int. Turfgrass Soc. Res. J.* 11(Part 2):p. 1107-1129.
- Vanini, J. T., J. J. Henderson, J. C. Sorochan, and J. N. III Rogers. 2007. Evaluating traffic stress by the Brinkman Traffic Simulator and Cady Traffic Simulator on a Kentucky bluegrass stand. *Crop Sci.* 47(2):p. 782-786.
- Henderson, J.J., J.R. Crum, T. F. Wolff, J.N. Rogers, III. 2005. Effects of particle size distribution and water content at compaction on saturated hydraulic conductivity and strength of high sand content root zone materials. *Soil Science.* 170(5): p.315-324.
- Henderson, J.J., J.L. Lanovaz, J.N. Rogers, III, J.C. Sorochan, J.T. Vanini. 2005. A new apparatus to simulate athletic field traffic: The Cady Traffic Simulator. *Agron. J* 97: 1153-1157.

ABSTRACTS:

- B.J. Tencza and J.J. Henderson. 2012. Determining the importance of leaf compost topdressing when managing athletic fields organically. Annu. Meet. Abstr. American Society of Agronomy Abstracts. Madison, WI.
- B.J. Tencza and J.J. Henderson. 2011. Portable roadway systems evaluated using simulated traffic on playing surfaces for non-sporting events. Annu. Meet. Abstr. American Society of Agronomy Abstracts. Madison, WI.

- Henderson, J.J., N.A. Miller, and B.J Tencza. 2010. The effect of sand type and application rate on turfgrass quality, disease severity, earthworm castings, and soil physical properties on golf course fairways. Annu. Meet. Abstr. American Society of Agronomy Abstracts. Madison, WI.
- Miller, N.A. and Henderson, J.J. 2009. Correlating Particle Shape Complexity to Agronomic and Engineering Properties. Annu. Meet. Abstr. American Society of Agronomy Abstracts. Madison, WI.
- Miller, N. A., and J.J. Henderson. 2008. Quantifying the complexity of sand particle shape using current digital image analysis technology. Annu. Meet. Abstr. American Society of Agronomy. Madison, WI.
- Henderson, J.J. 2007. Effect of sod establishment timing on rooting strength of *Poa Pratensis*. Annu. Meet. Abstr. American Society of Agronomy. Madison, WI.

TECHNICAL REPORTS:

- Tencza, B.J. and J.J. Henderson 2012. Determining the importance of leaf compost topdressing when managing athletic fields organically. 2012 Turfgrass Res. Rep. [CT]. p. 47-53.
- Tencza, B.J. and J.J. Henderson 2011. Portable roadway systems evaluated using simulated traffic on playing surfaces for non-sporting events. 2011 Turfgrass Res. Rep. [CT]. p. 46-52.
- Tencza, B.J. and J.J. Henderson 2011. Determining the importance of leaf compost topdressing when managing athletic fields organically. 2011 Turfgrass Res. Rep. [CT]. p. 53-56.
- Tencza, B.J. and J.J. Henderson 2010. Determining the importance of leaf compost topdressing when managing athletic fields organically. 2010 Turfgrass Res. Rep. [CT]. p. 31-35.
- Tencza, B.J. and J.J. Henderson 2010. Portable roadway systems evaluated using simulated traffic on playing surfaces for non-sporting events. 2010 Turfgrass Res. Rep. [CT]. p. 36-38.
- Henderson, J. J., B.J. Tencza and N.A. Miller 2010. The effect of sand type and application rate on turfgrass quality, disease severity, earthworm castings, and soil physical properties. 2010 Turfgrass Res. Rep. [CT]. p. 39-44.
- Henderson, J. J. and N.A. Miller 2009. Importance of particle size distribution, application rate, and sand depth in developing a fairway topdressing program. 2009 Turfgrass Res. Rep. [CT]. p. 41-49.
- Miller, N.A. and J.J. Henderson 2009. The effects of organic management practices on the quality and playability of athletic fields. 2009 Turfgrass Res. Rep. [CT]. p. 31-40.
- Henderson, J. J. and N.A. Miller 2008. Importance of particle size distribution, application rate, and sand depth in developing a fairway topdressing program. 2008 Turfgrass Res. Rep. [CT]. p. 72-82.
- Miller, N.A. and J.J. Henderson 2008. The effects of organic management practices on the quality and playability of athletic fields. 2008 Turfgrass Res. Rep. [CT]. p. 83-89.
- Henderson, J. J. 2007. Effect of sod establishment timing on rooting strength of *Poa pratensis*. 2007 Turfgrass Res. Rep. [CT]. p. 64-67.
- Henderson, J. J. 2007. Impact of fairway topdressing frequency on soil physical properties and turfgrass quality. 2007 Turfgrass Res. Rep. [CT]. p. 68-69

- Henderson, J. J. 2007. Importance of particle size distribution and sand depth in developing a fairway topdressing program. 2007 Turfgrass Res. Rep. [CT]. p. 70-75.
- Henderson, J. J. 2006. Effect of sod establishment timing on rooting strength and playing surface quality. 2006 Turfgrass Res. Rep. [CT]. p. 64-65.
- Henderson, J. J. 2006. Importance of particle size distribution and sand depth in developing a fairway topdressing program. 2006 Turfgrass Res. Rep. [CT]. p. 66-69.
- Henderson, J. J. 2006. Impact of fairway topdressing frequency on soil physical properties and turfgrass quality. 2006 Turfgrass Res. Rep. [CT]. p. 70
- Henderson, J. J. 2005. Effect of sod establishment timing on rooting strength and playing surface quality. 2005 Turfgrass Res. Rep. p. 41.
- Henderson, J. J. 2005. Importance of particle size distribution and sand depth in developing a fairway topdressing program. 2005 Turfgrass Res. Rep. p. 42-43.

TRADE/ASSOCIATION JOURNALS:

- Henderson, J.J. 2011. Alternative sod installation timing to extend the growing season in the northeast. *Sports Turf*. June 27(6): p. 8, 10-11.
- Skorulski, J., J. Henderson, and N. A. Miller. 2010. Topdressing fairways: More is better: The application rate has a greater impact than sand particle size distribution. *USGA Green Sec. Rec.* 48(2):p. 15-17.
- Henderson, J.J. 2007. Right root zone recipe maximizes performance. *Sports Turf*. January 23(1): p. 14, 16-18.

PRESENTATIONS:

- Correlating particle shape parameters to bulk properties and load stress at two water contents. May 2012. Bouyoucus Conference on the Advances on Soil Biological, Chemical, and Physical Properties for Sustainable Constructed Root Zones. Philadelphia, PA. [invited]
- Benefits to Fairway Topdressing: Proven or Perception? March 2012. Golf Course Superintendents Association of America Education Conference. Las Vegas, NV. [invited]
- Leaf Compost Topdressing and Core Cultivation When Managing Athletic Fields Organically. February 2012. New England Regional Turfgrass Foundation Annual Conference and Show. Providence, RI. [invited]
- Portable Roadways: Protecting Turf During Concerts and Other Events. February 2012. New England Regional Turfgrass Foundation Annual Conference and Show. Providence, RI. [invited]
- Fertility and Cultural Practices. June 2011. University of Connecticut. Adjusting to Pesticide Ban Legislation; K-8 School Grounds Turfgrass Management Workshop. UConn Hartford County Extension Center.
- Henderson, J.J. and C. Price. Native Soil Field Improvement and Construction: Making the Best of What You Have. January 2011. Sports Turf Managers Association Annual Conference. Austin, TX. [invited]
- Turfgrass Species Selection. January 2011. Connecticut Grounds Keepers Association. Uncasville, CT. [invited]

Organic Athletic Field Management. January 2011. Connecticut Grounds Keepers Association. Uncasville, CT. [invited]

Benefits to Fairway Topdressing: Perception or Proven? March 2010. New England Regional Turfgrass Foundation Annual Conference and Show. Providence, RI. [invited]

Henderson, J.J. and J.C. Sorochan. Selecting, Testing and Constructing Sports turf Root Zones. January 2010. Sports Turf Managers Association. Orlando, FL. [invited]

Turfgrass Species Selection. January 2010. Connecticut Grounds Keepers Association. Uncasville, CT. [invited]

Miller, N.A. and J.J. Henderson. Organic Management of Sports Fields. January 2010. Connecticut Grounds Keepers Association. Uncasville, CT. [invited]

Benefits to Fairway Topdressing: Perception or Proven? December 2009. Northeastern Golf Course Superintendents Association. Albany, NY. [invited]

Miller, N.A. and J.J. Henderson. Organic Management of Sports Fields. December 2009. New Jersey Turfgrass Expo. Atlantic City, NJ. [invited]

Making Sense of Soil Tests. March 2009. New England Regional Turfgrass Conference and Show. Providence, RI. [invited]

Turfgrass Species Selection. February 2009. Connecticut Grounds Keepers Association Annual Conference. Hartford, CT. [invited]

Fairway Topdressing Research Update. January 2009. Connecticut Association of Golf Course Superintendents. Berlin, CT. [invited]

Soil Basics – Understanding Soil Physical and Chemical Properties. January 2008. Sports Turf Managers Association Annual Conference. Phoenix, AZ. [invited]

Lightweight Greens Rolling; Will it change the way greens are managed?. March 2008. Long Island Golf Course Superintendents Association. East Norwich, NY. [invited]

Establishment techniques for high traffic athletic fields. March 2007. New England Regional Turfgrass Conference. Providence, RI. [invited]

Establishment techniques for high traffic turfgrass areas and athletic fields. February 2007. Connecticut Grounds Keepers Association Annual Conference. Hartford, CT. [invited]

Physical properties of turfgrass soils: Current research you can use. January 2007. Connecticut Association of Golf Course Superintendents Association Annual Conference. Berlin, CT. [invited]

Constructing, managing, and testing sports turf root zones workshop. January 2007. Sports Turf Managers Association Annual Conference. San Antonio, TX. [invited]

Transitioning your bachelors degree to an advanced degree. January 2007. Sports Turf Managers Association Annual Conference. San Antonio, TX. [invited]

Keeping high trafficked athletic fields safe and playable: Going beyond traditional sound agronomic practices. January 2007. Sports Turf Managers Association Annual Conference. San Antonio, TX. [invited]

Considering a fairway topdressing program? Select the “right” material, target depth, and know current research. January 2007. Metropolitan Golf Course Superintendents Association. Rye, NY. [invited]

Constructing, amending, and managing sports field root zones. November 2006.
Specifications, Design, Construction, and Renovation of Sports Fields. University of
Massachusetts. Foxborough, MA. [invited]

Predicting the Success of your Fairway Topdressing Program. March 2006. Long Island Golf
Course Superintendents Association. Long Island, NY. Regional group. [invited]

Soil Physical Properties 101: Can soil physical properties affect turfgrass growth? February
2006. Connecticut Grounds Keepers Association annual conference. Hartford, CT.
Local group. [invited]

INTERNATIONAL TRAVEL AND RESEARCH EXPERIENCE:

- | | |
|---|----------------|
| ▪ Athens, Greece- Olympic Stadium field construction planning | September 2003 |
| ▪ Madrid, Spain - Stadium playing surface renovation | February 1998 |
| ▪ La Plata, Argentina - Turfgrass establishment under reduced
light conditions | February 1997 |

ASSOCIATIONS:

American Society of Agronomy
Crop Science Society of America
Soil Science Society of America
Sports Turf Managers Association
New England Sports Turf Managers Association
Golf Course Superintendents Association of America