



Curriculum Vitae of Jeffrey A. Borger

“At Penn State University, I have the responsibility of managing a turfgrass field research program that encompasses the evaluations of grassy and broadleaf weed control, and plant growth regulators. I teach in four courses, two in the four-year Turfgrass Science Major, and two in the two-year Golf Turf Management Program.”

Jeffrey A. Borger:

Instructor, Turfgrass Weed Management, The Pennsylvania State University, 2005 to present
Research Technician III, The Pennsylvania State University, 1991 to 2004

M.S. The Pennsylvania State University, Agronomy, August 2004

B.S. The Pennsylvania State University, Turfgrass Science, December 2000

Honors and Awards

Region IV (encompasses Illinois, Indiana, Michigan and Wisconsin) National Agri-Marketing Association "Rock the Weeds" Dow AgroSciences campaign. 1st place in the Turf & Ornamental Advertising Campaign category in 2007. January 17, 2008. (participant).

Region IV (encompasses Illinois, Indiana, Michigan and Wisconsin) National Agri-Marketing Association "T&O Editor Event". 1st place in the Turf & Ornamental Public Relations campaign category in 2007. January 17, 2008. (participant).

KAFMO 2003 Waddington/Harper Scholarship, February 21, 2003

Phi Kappa Phi, February 25, 2001

Bayer 2000 Turfgrass Scholarship, November 14, 2000

Gamma Sigma Delta, November 2, 1999

United States Golf Association Internship, June 1998.

Teaching

Developed and implemented TURF 230, Turfgrass Pesticides (four-year Turfgrass Science Major).
Taught 2007 to present.

Developed and implemented (turfgrass section) HORT/TURF 238, Controlling Weeds in Turf and Ornamentals (team taught with Larry Kuhns(2006) Jim Selmer (2007 to present) (four-year Turfgrass Science Major). Taught 2005 to present.

Developed and implemented TURF 425, Turfgrass Cultural Systems (four-year Turfgrass Science Major). Taught 2005 to present.

Developed and implemented TURF 923A, Weed Control in Turfgrass (two-year Golf Turf Management Program). Taught 2005 to present.

Developed and implemented TURF 925A, Turfgrass Cultural Systems (two-year Golf Turf Management Program). Taught 2005 to present.

Teach TURF 496 Turfgrass Independent Studies (four-year Turfgrass Science Major). Taught 2005 to present.

Teach TURF 495 Turfgrass Internship (four-year Turfgrass Science Major). Taught 2005 to present.

Developed and implemented SPEECH 901A, Communication Skills for the Turfgrass Manager. Taught 2004 and 2005.

Guest Lectures

2007

AGRO/SOILS 597A, October 18, 2007, Guest Lecture, Turfgrass Weed Research Program.

TURF 911A, October 3, 2007, Guest Lecture, Current Turfgrass Issues and Student Internship Experiences.

HORT/TURF 297-Pesticide Core and Category 06-07, April 16, 2007.

2006

AGRO/SOILS 597A, October 24, 2006, Guest Lecture, Turfgrass Weed Research Program.

2005

TURF 100, September 21, 2005, Guest Lecture, Turfgrass Identification.

Teaching Assistant (prior to 2005):

TURF 100, Introduction to Turfgrass Management.

TURF 235, The Turfgrasses.

TURF 238, Turf and Ornamental Weed Control.

TURF 434, Turfgrass Edaphology.

TURF 425, Turfgrass Cultural Systems.

TUEF 911A, Special Turfgrass Topics.

TURF 921A, Physical Properties of Soils for Turfgrass.

TURF 923A, Turf Weed Management.

Committee Service

Graduate Committee Participation

Committee Member - Master of Science– Thomas J. Serensits Graduation 2008

Department of Crop and Soil Science

2007 to present – Turfgrass Facilities Committee (Member).

2005 to present – Computer Committee (Member).

Pennsylvania Turfgrass Council

2007 to present – Western Turfgrass Conference Planning Committee (Education Chair)

2006 to 2007 – Western Turfgrass Conference Planning Committee (Member).

2005 to present – Task Force to Evaluate the Financial Future of Turfgrass Conferences and Beyond (Volunteered to be a member).

2005 to present – Pennsylvania Turfgrass Council, Technical Advisory Committee (Member).

Faculty and other Service

Peer reviewer for Dr. Andrew McNitt, Turf 434, Fall Semester 2006

Peer reviewer for Dr. Andrew McNitt, Turf 100, Fall Semester 2005

Professional Memberships

Crop Science Society of America

Golf Course Superintendents Association of America

Greater Pittsburgh Area Golf Course Superintendents Association

Keystone Area Golf Course Superintendents Association

Keystone Athletic Field Managers Organization

Mountain and Valley Golf Course Superintendents Association

Northwestern Pennsylvania Golf Course Superintendents Association

Northeastern Weed Science Society

Sports Turf Managers Association

United States Golf Association

Publications

2008

Borger, J. A. 2008. Managing *Poa annua* Seedhead on Putting Green. USGA Green Section Record. July-August 2008, p7.

Borger, J. A. and M. B. Naedel. 2008. Creeping Bentgrass Conversion to Perennial Ryegrass using A12738 – 1. The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).

Borger, J. A. and M. B. Naedel. 2008. Seedhead Suppression of Annual Bluegrass on a Putting Green The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).

Borger, J. A. and M. B. Naedel. 2008. Annual Bluegrass Prevention on a Newly Established Putting Green - The Pennsylvania State University, Center for Turfgrass Science 2007

- Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2008. Seedhead Suppression of Annual Bluegrass on a Putting Green - The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).
- Naedel, M.B., P. J. Landschoot, and J. A. Borger. 2008. Preliminary Evaluation of Materials Applied to Perennial Ryegrass For Symptom Suppression of Etiolated Tiller Syndrome. The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2008. Annual Bluegrass Control in Fairway Height Creeping Bentgrass - The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2008. Preemergence Control of Smooth Crabgrass - The Pennsylvania State University, Center for Turfgrass Science 2007 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2007/2007arr.cfm>).
- Naedel, M. B. and J. A. Borger. and. January 7 – 10, 2008. Preemergence Smooth Crabgrass Control. Proc. Northeastern Weed Science Society 62:89.
- Borger, J. A. and M. B. Naedel. January 7 – 10, 2008. Preemergence Annual Bluegrass Control. Proc. Northeastern Weed Science Society 62:88.

Annual Reports to Cooperators (2008)

- Borger, J. A. and M. B. Naedel and M. T. Elmore. 2008. Seedhead Suppression of Annual Bluegrass on a Simulated Fairway. Gordon Kauffman III, Grigg Brothers.
- Borger, J. A. and M. B. Naedel and M. T. Elmore. 2008. Evaluation of Late Season Applications of Experimental Compounds Applied to Fairway Height Creeping Bentgrass/Annual Bluegrass (Study 2). Larry Norton, Bayer.
- Borger, J. A. and M. B. Naedel and M. T. Elmore. 2008. Evaluation of Late Season Applications of Experimental Compounds Applied to Fairway Height Creeping Bentgrass/Annual Bluegrass. Paul David, Gowan.
- Borger, J. A. and M. B. Naedel and M. T. Elmore. 2008. Final Report: Evaluation of Experimental Compounds Applied to Fairway Height Creeping Bentgrass/Annual Bluegrass. Paul David, Gowan.
- Borger, J. A. and M. B. Naedel and M. T. Elmore. 2008. Annual Bluegrass Control in Fairway Height Creeping Bentgrass. Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. 2008. Annual Bluegrass Control in Lawn Height Perennial Ryegrass. Renee Keese, Syngenta.

2007

- Huff, D. R., A. Chandra, and J. Borger. 2007. Breeding Better Blue Grasses. SportsTurf, September 2007, p.16 – 22.
- Borger, J. A. and M. B. Naedel. 2007. PGR and Weed Control Work Keeps Going Strong! Internet Only @ http://turfgrass.psu.edu/newsletter/volume1_issue1.cfm. Penn State Turf News, August 2007, Vol 1, Issue 1. pp2.
- Borger, J. A. and M. B. Naedel. 2007. Creeping Bentgrass Phytotoxicity and Control Evaluation of Lawn Height 'Park' Kentucky Bluegrass. The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Seedhead Suppression of Annual Bluegrass on a Putting Green . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Phytotoxicity and Control Evaluations of Selected Materials on Creeping Bentgrass, Rough Bluegrass, Tall Fescue, Perennial Ryegrass, and Kentucky Bluegrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Post Emergence Control of Smooth Crabgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Preemergence Control of Smooth Crabgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Annual Bluegrass Prevention on a Newly Established Putting Green . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Control Evaluations of Selected Materials on Lawn Height 'Park' Kentucky Bluegrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @

- <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Control Evaluations of Selected Materials on Lawn Height 'Park' Kentucky Bluegrass Using High a Application Volume of Water . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A., T. L. Watschke, and M.B. Naedel. 2007. Post Emergence Control of Ground Ivy and Phytotoxicity Evaluations . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Preemergence Control of Smooth Crabgrass Using Various Nozzle Types and Application Volumes . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Evaluation of Plant Growth Regulators and Fertilizer to Fairway Height Creeping Bentgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Annual Bluegrass Control in Fairway Height Creeping Bentgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Post Emergence Control of Smooth Crabgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Preemergence Control of Smooth Crabgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Evaluation of Primo Maxx and Sprayer Nozzles on Fairway Height Creeping Bentgrass . The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. 2007. Evaluation of Primo Maxx, Sync and Sprayer Nozzles on Fairway Height Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2006 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/2006/2006arr.cfm>).
- Borger, J. A. and M. B. Naedel. January 2 – 5, 2007. Seedhead Suppression of Annual Bluegrass. Proc. Northeastern Weed Science Society 61:108.
- Borger, J. A. and M. B. Naedel. January 2 – 5, 2007. Pre and Post Emergent Annual Bluegrass Control. Proc. Northeastern Weed Science Society 61:90.
- Fidanza, M. A., J. A. Borger, M. B. Naedel, C. A. Bigelow, and P. C. Bhowmik. January 2 – 5, 2007. Preliminary Study at Four Locations on Using Growing Degree-Days to Apply a Preemergence Herbicide. Proc. Northeastern Weed Science Society 61:89.
- M. B. Naedel and J. A. Borger. January 2 – 5, 2007. Seedhead Suppression of Annual Bluegrass on a Putting Green in 2006. Proc. Northeastern Weed Science Society 61:80.

Annual Reports to Cooperators (2007)

- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass. (Study 10). Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Phytotoxicity Evaluations of Tall Fescue Seeded One year Ago. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Phytotoxicity Evaluations of Perennial Ryegrass Seeded One year Ago. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Phytotoxicity Evaluations Using a Lawn Patch Mix to Overseed Perennial Ryegrass. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Phytotoxicity Evaluation of Materials Applied to Perennial Ryegrass. Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Phytotoxicity and Control Evaluation of Kentucky Bluegrass. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Quackgrass with Certainty Herbicide. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. Phytotoxicity and Control Evaluations of Materials Applied to Fairway Height Creeping Bentgrass. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. Phytotoxicity and Control Evaluation of Tall Fescue and Kentucky Bluegrass. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. PGR Evaluations of Materials applied to Lawn Height Kentucky Bluegrass. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. PGR Evaluations of Materials applied to Fairway Height Creeping Bentgrass. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. Roundup PRO Formulation Comparisons for Control of Tall Fescue. Domingo Reigo, Monsanto.
- Borger, J. A. and M. B. Naedel. Interim Report: Evaluation of Experimental Compounds Applied to Fairway Height Creeping Bentgrass/Annual Bluegrass. Milt Kageyama, Private Consultant.
- Borger, J. A. and M. B. Naedel. Evaluation of Experimental Compounds Applied to Fairway Height Creeping Bentgrass. Milt Kageyama, Private Consultant.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Smooth Crabgrass (Study 3). Tim Birthisel, Andersons Inc.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Smooth Crabgrass (Study 2). Glenn W Oliver, BASF Corporation.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 9). Tim Birthisel, The Andersons Inc., Jerry Corbett, Quali-Pro, Dan Loughner, Dow AgroScience, Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 8). Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 7). Renee

- Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 6). Renee Keese, Syngenta.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 10). Dunk Porterfield, NuFarm.
- Borger, J. A. and M. B. Naedel. Smooth Crabgrass Control with Turf Herbicide Formulations. Dunk Porterfield, NuFarm.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 5). Jill Calabro, Valent Corp.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 4). Mark Prinster, Research Manager, Spectrum Brands.
- Borger, J. A. and M. B. Naedel. Early Preemergence Control of Smooth Crabgrass. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 3). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass (Study 2). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Preemergence Control of Smooth Crabgrass. Mike Fidanza Penn State University Berks Campus.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 9). Glenn W. Oliver, BASF Corp.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 8). Bob Mack, Helena Chemical Company.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 7). Mark Prinster, Research Manager, Spectrum Brands.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 6). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 5). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 4). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 3). Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. (Study 2). Gary Custis, PBI Gordon.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Smooth Crabgrass. Gary Custis, PBI Gordon.
- Borger, J. A. and M. B. Naedel. Pre and Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Seedhead Suppression of Annual Bluegrass on a Putting Green (Study 2). Gordon Kaufman, Grigg's Brothers.
- Borger, J. A. and M. B. Naedel. Seedhead Suppression of Annual Bluegrass on a Putting Green (Study 1). Jerry Corbett, Technical Services Manager, *QUALI-PRO*, Renee Keese and

- Mike Agnew, Syngenta, Gary Custis, PBI Gordon, Larry Norton, Bayer.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. Gary Custis, PBI Gordon.
- Borger, J. A. and M. B. Naedel. Evaluation of GWN-6010 for Seedhead Suppression of Annual Bluegrass on a Simulated Annual Bluegrass Fairway. Milt Kageyama, Private Consultant.
- Borger, J. A. and M. B. Naedel. Annual Bluegrass Prevention on a Newly Established Putting Green. Paul David, Gowan.
- Borger, J. A. and M. B. Naedel. Annual Bluegrass Control in Fairway Height Creeping Bentgrass, Study 2. Jill Calabro, Valent.
- Borger, J. A. and M. B. Naedel. Annual Bluegrass Control in Fairway Height Creeping Bentgrass, Study 1. Jill Calabro, Valent, Renee Keese and Mike Agnew, Syngenta, Paul David, Gowan, and Larry Norton, Bayer.
- Borger, J. A. and M. B. Naedel. Evaluation of Experimental Compounds Applied to Fairway Height Creeping Bentgrass/Annual Bluegrass, Penn State University Interim Report. Milt Kageyama, Private Consultant.
- Borger, J. A. and M. B. Naedel. Annual Bluegrass Control in Greens Height Creeping Bentgrass. George Barger NutraMax.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations with a Fall Application, Study 2. Dan Loughner, Dow AgroScience.
- Borger, J. A. and M. B. Naedel. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations with a Fall Application, Study 1. Dan Loughner, Dow AgroScience.
- Naedel, M.B., P. J. Landschoot, and J. A. Borger. Evaluation of Products for Suppression of Etiolated Tiller Syndrome Symptoms. Karen Plumley, Cleary Chemical Corporation and Mike Agnew, Syngenta.

2006

- Naedel, M. B., J. A. Borger, M. D. Soika, and T. L. Watschke. 2006. Evaluation of Plant Growth Regulators on Fairway Height Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Annual Bluegrass Prevention on a Newly Established Putting Green. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Phytotoxicity and Tolerance Evaluation of Selected Materials on Creeping Bentgrass, Rough Bluegrass, Tall Fescue, Perennial Ryegrass, and Kentucky Bluegrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Preemergence Control of Smooth Crabgrass. The Pennsylvania State University, Center for Turfgrass Science 2005

- Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, M. D. Soika, and M. B. Naedel. 2006. Annual Bluegrass Control and Dollar Spot Suppression in Fairway Height Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Evaluation of Plant Growth Regulators and Other Materials Applied to Fairway Height Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Evaluation of Primo Formulations and Sprayer Nozzles on Fairway Height Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Seedhead Suppression of Annual Bluegrass at Fairway Height. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Creeping Bentgrass Phytotoxicity and Control Evaluation of Lawn Height 'Midnight' Kentucky Bluegrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Seedhead Suppression of Annual Bluegrass on a Putting Green. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Postemergence Smooth Crabgrass Control – Study 1. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Postemergence Smooth Crabgrass Control – Study 2. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Post Emergence Control of Ground Ivy and Phytotoxicity Evaluations. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Post Emergence Control of Broadleaf Weeds and Phytotoxicity Evaluations. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)
- Borger, J. A., T. L. Watschke, and M. B. Naedel. 2006. Turfgrass Color Evaluation on Green Height 'Penn A-4' Creeping Bentgrass. The Pennsylvania State University, Center for Turfgrass Science 2005 Turfgrass Research Report. (Internet only @ <http://turf.cas.psu.edu/research.cfm>)

Borger, J. A., and M. B. Naedel. March, 2006. Sprayer Calibration: Get it Right. Sports Turf. March 2006 p22-26.

- Borger, J. A., T. L. Watschke, and M. B. Naedel. January 3 – 6, 2006. Selective Postemergence Perennial Grass Control. Proc. Northeastern Weed Science Society 60:105.
- Naedel, M. B. J. A. Borger, M.D. Soika, and T. L. Watschke. January 3 – 6, 2006. Plant growth Regulator Evaluations in 2005. Proc. Northeastern Weed Science Society 60:107.

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2005

- Borger, J. A., and T. L. Watschke. 2005. Clipping Management. Northeastern Weed Science Society, Washington DC.
- Borger, J. A., and T. L. Watschke. 2005. Broadleaf Weed Control. Northeastern Weed Science Society, Washington DC.

- Borger, J. A., and T. L. Watschke. 2005. Ground Ivy Control. Northeastern Weed Science Society, Washington DC.
- Borger, J. A., and T. L. Watschke. 2005. Annual Bluegrass Control and More. Northeastern Weed Science Society, Washington DC.
- Borger, J. A., T. L. Watschke, R. J. Keese, D. P. Shepard, D. K. Mosdell, and M. L. Agnew. 2005. Evaluation of Growth Regulators for the Control of *Poa annua*. International Turfgrass Society Conference in Llandudno, Wales, UK (July 7 to July 14, 2005) (Poster Presented).

2004

- Borger, J. A., and T. L. Watschke, Nov. 1, 2004. Selective Post Emergence Annual Bluegrass Control. Crop Science Society of America 49th Annual Meeting, October 31 to November 4, 2004, Seattle Washington.
- Borger, J. A. 2004. Selective Post Emergence Control of Annual Bluegrass and the Discoloration of Creeping Bentgrass. Pennsylvania State University, Department of Crop and Soil Science (Master's Research), University Park, PA.
- Borger, J. A., and T. L. Watschke. 2004. Broadleaf Weed Control in 2003. Northeastern Weed Science Society, Boston, MA.
- Borger, J. A., and T. L. Watschke. 2004. Establishing Weeds for Turfgrass Field Research. Northeastern Weed Science Society, Boston, MA.
- Borger, J. A., and T. L. Watschke. 2004. Plant Growth Regulators as a Tool for Annual Bluegrass Control. Northeastern Weed Science Society, Boston, MA.
- Borger, J. A., and T. L. Watschke. 2004. Seedhead Suppression of Annual Bluegrass. Northeastern Weed Science Society, Boston, MA.

2003

- Borger, J. A. 2003. Broadleaf Weed Control in 2002. Northeastern Weed Science Society, Baltimore, MD.
- Borger, J. A. 2003. Phytotoxicity on Creeping Bentgrass in 2002. Northeastern Weed Science Society, Baltimore, MD.
- Borger, J. A. 2003. Seedhead Suppression of Annual Bluegrass. Northeastern Weed Science Society, Baltimore, MD.

2002

- Borger, J. A., and T. L. Watschke. 2002. Smooth Crabgrass Control in 2001. Northeastern Weed Science Society, Philadelphia, PA.
- Borger, J. A., and T. L. Watschke. 2002. Pre-Emergence and Post-Emergence Control of Smooth Crabgrass on Fairway-Height Perennial Ryegrass. Northeastern Weed Science Society, Philadelphia, PA.

Borger, J. A., and T. L. Watschke. 2002. White Clover and Ground Ivy Control in 2001. Northeastern Weed Science Society, Philadelphia, PA.

2001

Borger, J. A., and T. L. Watschke. 2001. Broadleaf Weed Control in 2000. Northeastern Weed Science Society, Cambridge, MA.

2000

Borger, J. A., and T. L. Watschke. 2000. Broadleaf Weed Control in 1999. Northeastern Weed Science Society, Baltimore, MD.

Borger, J. A., and T. L. Watschke. 2000. Response of Kentucky Bluegrass and Perennial Ryegrass to Applications of Ethephon Under Reduced Light Conditions. Northeastern Weed Science Society, Baltimore, MD.

1999

Borger, J. A., and T. L. Watschke. 1999. The Effect of Fall Applied Pre-Emergence Herbicides on Spring Over-Seeding. Northeastern Weed Science Society, Cambridge, MA.

Borger, J. A., and T. L. Watschke. 1999. Pre/Post Crabgrass Control at Two Stages of Growth in 1998. Northeastern Weed Science Society, Cambridge, MA.

Borger, J. A., and T. L. Watschke. 1999. Pre-Emergence Control of Smooth Crabgrass with Spring and Fall Herbicide Applications. Northeastern Weed Science Society, Cambridge, MA.

1998

Borger, J. A., and T. L. Watschke. 1998. Seedhead Suppression of Low-Maintenance Tall Fescue. Northeastern Weed Science Society, Washington, DC.

Borger, J. A., and T. L. Watschke. 1998. The Effect of Fall – Applied Pre-Emergence Herbicides on Spring Bentgrass Overseeding. Northeastern Weed Science Society, Washington, DC.

Borger, J. A., and T. L. Watschke. 1998. Pre/Post Crabgrass Control at Two Stages of Growth. Northeastern Weed Science Society, Washington, DC.

1997

Borger, J. A., and T. L. Watschke. 1997. The Effect of Fall Applied Prodiamine on Spring Overseeding. Northeastern Weed Science Society, Newport, RI.

1996

Borger, J. A., and T. L. Watschke. 1996. Turf Renovation with Growth Regulators and Overseeding. Northeastern Weed Science Society, Williamsburg, VA.

1995

Borger, J. A., and T. L. Watschke. 1995. Broadleaf Weed Control in 1994. Northeastern Weed Science Society, Boston, MA

Invited Presentations

2008

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Using Tenacity to Control Annual Bluegrass in a Seedbed in 2007. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Broadleaf Weed Control Study II. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Broadleaf Weed Control Study I. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Influence of Nozzle Type on Post Emergence Crabgrass Control. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Preemergence and Post Emergence Crabgrass Control. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Preemergence Crabgrass Control With Barricade and Tenacity. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Preemergence Crabgrass Control With Fall and Spring Applications. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. RundUp PROMAX Demonstration. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Herbicide Use for Annual Bluegrass Control in a Seedbed. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Annual Bluegrass Control with Velocity Herbicide. August 6, 2008. University Park, PA.

Borger, J. A. 2008. 2008 Penn State Turfgrass Field Days. Legacy Plant Growth Regulator Evaluation. August 6, 2008. University Park, PA.

Borger, J. A. 2008. Herbicide and PGR Roundtable Question and Answer. Jon Cuny Syngenta Corp. April 24, 2008. Pittsburgh, Pa.

Borger, J. A. 2008. Herbicide and PGR Roundtable Question and Answer. Jon Cuny Syngenta Corp. April 23, 2008. Pittsburgh, Pa.

Borger, J. A. 2008. Herbicide and PGR Question and Answer. Keystone Association of Golf Course Superintendents. April 22, 2008. Cherokee Golf Course, Danville, Pa.

Borger, J. A. 2008. Educational Opportunity Presented by: WVGCSA. March 12, 2008. All day seminar. Oglebay Resort, Wheeling WV.

- Borger, J. A. 2008. New Turfgrass Herbicides. March 7, 2008. Central Susquehanna Valley Turf & Ornamental Meeting. Best Western Country Cupboard Inn, Lewisburg, PA.
- Borger, J. A. 2008. New Herbicide Chemistries. February 14, 2008. The Integrated Pest Management Symposium. Four Points Sheraton Pittsburgh North, Cranberry, PA.
- Borger, J. A. 2008. Sprayer and Spreader Calibration. February 14, 2008. The Integrated Pest Management Symposium. Four Points Sheraton Pittsburgh North, Cranberry, PA.
- Borger, J. A. 2008. Turfgrass Herbicide Update. January 28, 2008. New Herbicides for Turfgrass. Capital Area Turf & Ornamental Winter School. Grantville, PA.
- Borger, J. A. and M. B. Naedel 2008. Using Plant Growth Regulators for Annual Bluegrass Removal. January 10, 2008. 62nd Annual Meeting of the Northeastern Weed Science Society, Symposium: The Latest in Plant Growth Regulators for Turfgrass Use. Philadelphia, PA.
- Naedel, M. B. and J. A. Borger 2008. Preemergence Smooth Crabgrass Control. January 10, 2008. 62nd Annual Meeting of the Northeastern Weed Science Society. Philadelphia, PA.
- Borger, J. A. and M. B. Naedel 2008. Preemergence Annual Bluegrass Control. January 10, 2008. 62nd Annual Meeting of the Northeastern Weed Science Society. Philadelphia, PA.
- Borger, J. A. 2008. Herbicide and PGR Research Update. January 8, 2008. 2008 Eastern Pennsylvania Turfgrass Conference and Trade Show. Valley Forge, PA.
- Borger, J. A. 2008. Turfgrass Herbicide Update. January 3, 2008. PSU Pesticide In-Service. January 3, 2008. 101 Thomas Building, University Park, PA.

2007

- Borger, J. A. 2007. Herbicide and PGR Update. November 14, 2007. The 2007 Penn State Golf Turf Conference. Nov 13 – 15, 2007.
- Borger, J. A. 2007. Research Update. July 31, 2007. Dow AgroScience World Headquarters, Indianapolis IA.
- Borger, J. A. 2007. Plant Growth Regulator use on the Golf Course. Pocono Golf Course Superintendents Association. May 23, 2007. Country Club of the Poconos Marshalls Creek, Pa.
- Borger, J. A. 2007. Herbicide and PGR Question and Answer. Central Pennsylvania Golf Course Superintendents Association. May 22, 2007. Ledgerock Golf Club Mohnton, Pa.
- Borger, J. A. 2007. Herbicide and PGR Question and Answer. Keystone Association of Golf Course Superintendents. May 9, 2007. Tyoga Country Club Wellsboro, Pa.
- Borger, J. A. 2007. Control and use of Growth Regulators. Pennsylvania Association of School Business Officials, 2006-2007 Workshop Series, Grounds Management Conference, May 2, 2007. University Park, Pa.
- Borger, J. A. 2007. Weed Identification. Pennsylvania Association of School Business Officials, 2006-2007 Workshop Series, Grounds Management Conference, May 2, 2007. University Park, Pa.
- Borger, J. A. 2007. Weed Control in Turf. 2007 Western Pennsylvania Turf Conference and Trade Show. March 6 to March 8, 2007. Monroeville, Pa.

Borger, J. A. 2007. Poa Seedhead Suppression Products and Application. Harrell's Turf Specialty Winter Educational Meeting. March 1, 2007. Boalsburg Elks Club, Boalsburg, PA.

- Borger, J. A. 2007. Turfgrass Question and Answer Session. Harrell's Turf Specialty Winter Educational Meeting. February 26, 2007. Split Rock Lodge, Lake Harmony, PA.
- Borger, J. A. 2007. Broadleaf Weed Control. Harrell's Turf Specialty Winter Educational Meeting. February 26, 2007. Split Rock Lodge, Lake Harmony, PA.
- Borger, J. A. 2007. Seedhead Suppression Proxy/Primo. Harrell's Turf Specialty Winter Educational Meeting. February 26, 2007. Split Rock Lodge, Lake Harmony, PA.
- Borger, J. A. 2007. Turf Herbicide Update. 2007 Eastern Pennsylvania Turf Conference and Trade Show. January 9 – 10, 2007. King of Prussia, PA.
- Borger, J. A. 2007. PGRs Used on the Golf Course. 2007 Eastern Pennsylvania Turf Conference and Trade Show. January 9 – 10, 2007. King of Prussia, PA.
- Borger, J. A. 2007. PGR Uses on the Golf Course. 2007 Northeastern PA Turf Conference and Trade Show. January 25, 2007. Wilkes-Barre, PA.
- Borger, J. A. 2007. Turfgrass Weed Control Update. 2007 Northeastern PA Turf Conference and Trade Show. January 25, 2007. Wilkes-Barre, PA.
- Borger, J. A. 2007. Weed Control in Turf. 2007 Western Pennsylvania Turf Conference and Trade Show. March 6 – 8, 2007. Monroeville, PA.

2006

- Borger, J. A. 2006. Can the Discoloration of Velocity be Reduced? The 2006 Penn State Golf Turf Conference. November 7 – 9, 2006. University Park, PA.
- Borger, J. A. 2006. Proper Use of Preemergence Herbicides, Post Emergence Grass Herbicides, New Broadleaf Control Options, and a Q&A Session.. Turfgrass Manager's Short Course. October 26, 2006. Collegeville, PA.
- Borger, J. A. 2006. Weed Management Options. Turfgrass Manager's Short Course. October 26, 2006. Collegeville, PA.
- Borger, J. A. 2006. Turfgrass Herbicides and Your Questions. Grounds Managers' Field Day and Update. September 26, 2006. Schnecksville, PA.
- Borger, J. A. 2006. Turfgrass Herbicides and Your Questions. Bucks County Landscape Update. September 26, 2006. Neshaminy Manor Center, Doylestown, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Pre and Post Emergence Crabgrass Control. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Post Emergence Crabgrass Control. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Preemergence Crabgrass Control. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Preemergence Crabgrass Control with a Fall Application. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Influence of Nozzle Type with Preemergence Crabgrass Control. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Broadleaf Weed Control Study II. August 9, 2006. University Park, PA.

- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Broadleaf Weed Control Study I. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Poa Trivalis Control with Certainty Herbicide. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Influence of Sync on Primo Maxx. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Influence of Nozzle Type on Primo MAXX Efficacy. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Plant Growth Regulator Evaluations. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Evaluation of Annual Bluegrass Control with Velocity Herbicide. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Annual Bluegrass Control. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. 2006 Penn State Turfgrass Field Days. Discoloration Reduction with Velocity Herbicide. August 9, 2006. University Park, PA.
- Borger, J. A. 2006. The Influence of Primo on Broadleaf Weed Control. Iowa Turfgrass Field Day. July 27, 2006
- Borger, J. A. 2006. Broadleaf Weed and Turfgrass Identification Workshop. Iowa Turfgrass Field Day. July 27, 2006
- Borger, J. A. 2006. Behind the Scenes of the PSU Weed Research Program. Keystone Golf Course Superintendents Association/Pocono Turfgrass Association Monthly Meeting (Joint Association Meeting). June 13, 2006.
- Borger, J. A. 2006. Plant Growth Regulators and Nozzle Types. Central Pennsylvania Golf Course Superintendents Association Monthly Meeting. May 16, 2006.
- Borger, J. A. 2006. Focusing on Broadleaf Weed Control. 2006 Western Pennsylvania Turf Conference and Trade Show. Feb 28 – March 2, Monroeville, PA.
- Borger, J. A., M. Fidanza. (Substitute Speaker, Unable to Attend the Conference) 2006. Broadleaf Weed Control in Lawns. 2006 Western Pennsylvania Turf Conference and Trade Show. Feb 28 – March 2, Monroeville, PA.
- Borger, J. A. 2006. New products for Controlling Weedy Perennial Grasses. 2006 Western Pennsylvania Turf Conference and Trade Show. Feb 28 – March 2, Monroeville, PA.
- Borger, J. A. 2006. Nozzle Types and PGR Performance. 2006 Western Pennsylvania Turf Conference and Trade Show. Feb 28 – March 2, Monroeville, PA.
- Borger, J. A. 2006. Crabgrass Control – Pre and Post. 2006 Capital Area Turf and Ornamental Winter School. January 30, 2006, Grantville, PA.
- Borger, J. A. 2006. Nozzles and Plant Growth Regulators: Does it Make a Difference? The 2006 Eastern Pennsylvania Turf Conference and Trade Show. January 10 to 12, 2006, King of Prussia, PA.
- Borger, J. A. 2006. Turf Weed Potpourri. The 2006 Eastern Pennsylvania Turf Conference and Trade Show. January 10 to 12, 2006, King of Prussia, PA.

2005

- Borger, J. A. M. B. Naedel, and M. Fidanza. 2005. Penn State Golf Turf Conference. New Herbicides For Selective Control of Perennial Grasses. November 15 – 17, 2005. Nittany Lion Inn, University Park, Pa.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Plant Growth Regulators and Seedhead Suppression. November 10, 2005. The Heritage Golf and Country Club, Portlaoise, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Broadleaf Weed Control. November 8, 2005. November 10, 2005. The Heritage Golf and Country Club, Portlaoise, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. *Poa annua* Control – Some Ideas. November 8, 2005. November 10, 2005. The Heritage Golf and Country Club, Portlaoise, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Herbicide Use and Plant Growth Stage. November 8, 2005. November 10, 2005. The Heritage Golf and Country Club, Portlaoise, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Plant Growth Regulators and Seedhead Suppression. November 8, 2005. Adare Manor Hotel and Golf Resort, Limerick, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Broadleaf Weed Control. November 8, 2005. Adare Manor Hotel and Golf Resort, Limerick, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. *Poa annua* Control – Some Ideas. November 8, 2005. Adare Manor Hotel and Golf Resort, Limerick, Ireland.
- Borger, J. A. 2005. Cropcare One Day Educational Seminar. Herbicide Use and Plant Growth Stage. November 8, 2005. Adare Manor Hotel and Golf Resort, Limerick, Ireland.
- Borger, J. A. 2005. National Superintendents of Mexico Annual Conference. Plant Growth Stage and Herbicide Applications. October 2, 2005. Acapulco, Gro. Mexico.
- Borger, J. A. 2005. Sprayer/Spreader Calibration – Hands on Workshop (2 - 120 minutes presentations). Pennsylvania Association of School Business Officials, Grounds Management Conference, May 11, 2005, University Park, PA
- Fidanza, M. (Speaker) and J. A. Borger. How to Test and Evaluate Turfgrass Management Products on your Golf Course. Web - Cast. April 14, 2005.
- Borger, J.A. 2005. Herbicide Use and Plant Growth Stage. 2005 Western Pennsylvania Turf Conference and Trade Show. March 1 thru March 3, 2005. Monroeville, PA.
- Borger, J.A. 2005. Broadleaf Weed Control. 2005 Western Pennsylvania Turf Conference and Trade Show. March 1 thru March 3, 2005. Monroeville, PA.
- Borger, J.A. 2005. Sprayer Calibration. 2005 Western Pennsylvania Turf Conference and Trade Show. March 1 thru March 3, 2005. Monroeville, PA.
- Borger, J.A. 2005. Seedhead Suppression. 2005 Western Pennsylvania Turf Conference and Trade Show. March 1 thru March 3, 2005. Monroeville, PA.
- Borger, J.A. 2005. Crabgrass Control – Pre and Post Combos. 2005 Western Pennsylvania Turf Conference and Trade Show. March 1 thru March 3, 2005. Monroeville, PA.

- Borger, J.A. 2005. Grassy Weeds in Athletic Fields. 9th Annual KAFMO/PRPS Athletic Field Conference. February 18, 2005, Grantville, PA.
- Borger, J.A. 2005. Pest Management Update and Label Changes – Weed Control. 71st Iowa Turfgrass Conference and Trade Show. January 31 to February 2, 2005, Des Moines, Iowa.
- Borger, J.A. 2005. Herbicide Use and Plant Growth Stage. 71st Iowa Turfgrass Conference and Trade Show. January 31 to February 2, 2005, Des Moines, Iowa.
- Borger, J.A. 2005. Poor Instructions Followed Well. 71st Iowa Turfgrass Conference and Trade Show. January 31 to February 2, 2005, Des Moines, Iowa.
- Borger, J.A. 2005. The Art of Home Lawn Care. 71st Iowa Turfgrass Conference and Trade Show. January 31 to February 2, 2005, Des Moines, Iowa.
- Borger, J.A. 2005. Herbicide Use and Plant Growth Stage. The 2005 Northeastern PA Turf Conference and Trade Show. January 27, 2005, Wilkes-Barre, PA.
- Borger, J.A. 2005. Tank Mixes For Turf Weed Control. (Presented twice). The 2005 Northeastern PA Turf Conference and Trade Show. January 27, 2005, Wilkes-Barre, PA.
- Borger, J. A. 2005. Poa annua Control Strategies. Sports Turf Managers Association 16th Annual Conference and Exhibition. January 19 to 23, 2005, Phoenix, AZ.
- Borger, J.A. 2005. Herbicide Use and Plant Growth Stage. The 2005 Eastern Pennsylvania Turf Conference and Trade Show. January 11 to 13, 2005, King of Prussia, PA.
- Watschke, T. L. and J. A. Borger (Speaker). 2005. Turfgrass Herbicides: Past, Present, and Future. The 2005 Eastern Pennsylvania Turf Conference and Trade Show. January 11 to 13, 2005, King of Prussia, PA.
- Borger, J.A. 2005. Tank Mixes For Turf Weed Control. (Presented twice). The 2005 Eastern Pennsylvania Turf Conference and Trade Show. January 11 to 13, 2005, King of Prussia, PA.
- Watschke, T. L. and J. A. Borger (Speaker). 2005. Why Do We Keep Talking About Crabgrass Control? (Presented twice). The 2005 Eastern Pennsylvania Turf Conference and Trade Show. January 11 to 13, 2005, King of Prussia, PA.

2004

- Borger, J.A. 2004. Easy Steps to Calibration. The 2004 Ohio Turfgrass Conference and Show. December 7 to 10, 2004, Columbus OH.
- Borger, J.A. 2004. New Development in Broadleaf Weed Control Products and Combinations. The 2004 Ohio Turfgrass Conference and Show. December 7 to 10, 2004, Columbus OH.
- Borger, J.A. 2004. Poa Control Products and Combinations: What's on the Horizon? The 2004 Ohio Turfgrass Conference and Show. December 7 to 10, 2004, Columbus OH.
- Borger, J.A., D. Huff. 2004. Poa Annua and Greens Management: Panacea Obnoxious Askus. The 2004 Ohio Turfgrass Conference and Show. December 7 to 10, 2004, Columbus OH.
- Borger, J.A., B. Brame, K. Danneberger, D. Huff, P. Latshaw, J. Rimelspach, and J. Zimmers 2004. Poa Annua and Greens Management, Panel Discussion. The 2004 Ohio Turfgrass Conference and Show. December 7 to 10, 2004, Columbus OH.
- Borger, J.A. 2004. Can Annual Bluegrass Control Products Suppress Dollar Spot? The 2004 Penn State Golf Turf Conference. November 9 - 11, 2004, Penn State University, University Park, PA.
- Borger, J.A. 2004. Penn State Turf Club Meeting. Poor Turfgrass Management Instructions Followed Well. October 5, 2004. University Park, PA.
- Borger, J.A. 2004. National Superintendents of Mexico Annual Conference. Annual Bluegrass Control Strategies. September 26, 2004. Queretaro, Qro. Mexico.
- Borger, J.A. 2004. 2004 Penn State Turfgrass Field Days. Broadleaf Weed Control Trials. August 12, 2004. University Park, PA.
- Borger, J.A. 2004. 2004 Penn State Turfgrass Field Days. Poa Conversion/Disease Control. August 11, 2004. University Park, PA.
- Borger, J. A. 2004. Joint Golf Course Superintendent Meeting (Keystone and Central Pennsylvania). Seedhead Suppression of Annual Bluegrass on Putting Greens. June 8, 2004. Harrisburg Country Club, Harrisburg, PA.
- Watschke, T. L., J. A. Borger. 2004. Velocity Symposium Valent USA Corporation. Valent Professional Products Summit. April 13 - 15, 2004. Amelia Island, FL.
- Borger, J.A. 2004. Broadleaf Weed Control. Athletic Field, Turf and Ornamentals Conference. March 16, 2004. Allegheny College, Meadville, PA.
- Borger, J.A. 2004. Sprayer and Spreader Calibration. Athletic Field, Turf and Ornamentals Conference. March 16, 2004. Allegheny College, Meadville, PA.
- Borger, J.A. 2004. Approaches to Home Lawn Care. South Central Landscape and Turf Conference. March 4, 2004. Altoona, PA.
- Borger, J.A. 2004. Sprayer Calibration. South Central Landscape and Turf Conference. March 4, 2004. Altoona, PA.
- Fidanza, M. (Speaker) and J. A. Borger. Broadleaf Weed Control Update. New England Regional Turfgrass Conference. March 1 - 4, 2004. Providence, RI
- Borger, J.A. 2004. What's New in Broadleaf Weed Control? 2004 Western Pennsylvania Turf Conference and Trade Show. February 26, 2004. Monroeville, PA.

- Borger, J.A. 2004. *Poa annua* Seedhead Suppression: Update. 2004 Western Pennsylvania Turf Conference and Trade Show. February 24, 2004. Monroeville, PA.
- Borger, J.A. 2004. Weed Identification Workshop (Two Hours). 2004 Western Pennsylvania Turf Conference and Trade Show. February 24, 2004. Monroeville, PA.
- Borger, J.A. 2004. Sprayer and Spreader Calibration. The Pennsylvania Association of School Business Officials Grounds Management Program. February 24, 2004. Monroeville, PA.
- Borger, J.A. 2004. *Poa* Control Products and Combinations: What is on the horizon? The 2004 Eastern Pennsylvania Turf Conference and Trade Show. January 15, 2004, King of Prussia, PA.
- Borger, J.A. 2004. Sprayer and Spreader Calibration. The Pennsylvania Association of School Business Officials Grounds Management Program. January 14, 2004, King of Prussia, PA.

2003

- Borger, J.A. 2003. Controlling Crabgrass in Turf. Chemical Applicator's School. December 15, 2003, Grantville, PA.
- Borger, J.A. 2003. *Poa* Control Products and Combinations: What is on the horizon? The 2003 Penn State Golf Turf Conference. November 12, 2003, Penn State University, University Park, PA.
- Borger, J.A. 2003. *Poa* Control Products and Combinations: What is on the horizon? Penn State Turfgrass Club Meeting September 23, 2003, Penn State University, University Park, PA.
- Borger, J.A. 2003. Seedhead suppression of annual bluegrass on putting greens. Keystone Area Golf Course Superintendents August meeting, Lost Creek Golf Course, Lost Creek, PA.
- Borger, J.A. 2003. Turfgrass Weed Identification. Capital Region Summer Turf and Ornamental School, Landisville, PA.
- Borger, J.A. 2003. Turfgrass Weed Control. Pennsylvania Association of School Business Official's Grounds Workshop. May 7, 2003. University Park, PA.
- Borger, J.A. 2003. Turfgrass Weed Identification. Pennsylvania Association of School Business Official's Grounds Workshop. May 7, 2003. University Park, PA.
- Borger, J.A. 2003. Sprayer Calibration. Turfgrass Management for Professionals. March 12, 2003. Malvern, PA.
- Borger, J.A. 2003. Update on Turf Herbicides. Turfgrass Management for Professionals. March 12, 2003. Malvern, PA.
- Borger, J.A. 2003. What Happened with Weed Control in 2002? Turfgrass Management for Professionals. March 12, 2003. Malvern, PA.
- Borger, J.A. 2003. The "Art" of Home Lawn Care. Turfgrass Management for Professionals. March 12, 2003. Malvern, PA.
- Borger, J.A. 2003. What Happened to Turf Weed Control in 2002? 2003 Western Pennsylvania Turf Conference and Trade Show, Monroeville, PA.
- Borger, J.A. 2003. Seedhead Suppression of *Poa annua* on Putting Greens. Northeastern PA Turf

- School and Trade Show, Wilkes-Barre, PA.
- Borger, J.A. 2003. What Happened to Turf Weed Control in 2002? Northeastern PA Turf School and Trade Show, Wilkes-Barre, PA.
- Borger, J.A. 2003. Seedhead Suppression of *Poa annua*. Jan 28, 2003 meeting of the Penn State Turfgrass Club, University Park, PA.
- Borger, J.A. 2003. What Happened to Turf Weed Control in 2002? 2003 Eastern Pennsylvania Turfgrass Conference and Trade Show, King of Prussia, PA.

2002

- Borger, J.A. 2002. 2002 Penn State Turfgrass Field Days, University Park, PA.
- Borger, J.A. 2002. Turfgrass Weed Identification and Control Workshop. 2002 Eastern Pennsylvania Turfgrass Conference, King of Prussia, PA.
- Borger, J.A. 2002. The Art of Home Lawn Care. Northeastern PA Turf School and Trade Show, Wilkes-Barre, PA.
- Borger, J.A. 2002. Poor Instructions Followed Well – General Turfgrass Issues. 2002 Northeast Region Grounds, Landscape and Athletic Field Maintenance Workshop and Seminar, East Stroudsburg University, East Stroudsburg, PA.
- Borger, J.A. 2002. Sprayer Calibration. Northeastern PA Turf School and Trade Show, Wilkes-Barre, PA.
- Borger, J.A. 2002. The Art of Home Lawn Care (Weeds). Capital Area Turf and Ornamental Winter School, Grantville, PA.
- Borger, J.A. 2002. The Art of Home Lawn Care. 2002 Western Pennsylvania Turf Conference and Trade Show, Monroeville, PA.
- Borger, J.A. 2002. Poor Instructions of the 70's Followed Well. 2002 Western Pennsylvania Turf Conference and Trade Show, Monroeville, PA.
- Borger, J.A. 2002. Weed ID and Control. 2002 PSU Pesticide In-service, University Park, PA.
- Borger, J.A. 2002. Weed Identification and Management. KAFMO Sports Turf Managers' School, Lebanon Valley College, Annville, PA.

2001

- Borger, J.A. 2001. Turfgrass Weed Control Update. Bucks County Extension Meeting, Doylestown, PA.
- Borger, J.A. 2001. Turfgrass Weed Control Update. Grounds Manager Field Day and Update, Schnecksville, PA.
- Borger, J.A. 2001. Crabgrass Control Update. Turfgrass Management for Professionals, Creamery, PA.
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