

Micah Woods

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Current position

Chief Scientist, Asian Turfgrass Center

Education

- 2006 Ph.D. (Horticulture), Cornell University, Ithaca, NY. “Nonacid cation bioavailability in sand rootzones.”
1998 B.Sc. (Horticulture), *magna cum laude*, Oregon State University, Corvallis, OR.

Areas of specialization

Turfgrass science, soil nutrient analysis, golf course and sports turf management

Employment & appointments

- 2006–present Asian Turfgrass Center, Thailand & Hong Kong
2009–present University of Tennessee, Department of Plant Sciences, Adjunct Assistant Professor
2001–2006 Cornell University, Department of Horticulture, Graduate Research Assistant
2000–2001 Environmental Turfgrass Systems, Chiba, Japan
1998–2000 Shanghai Links Golf and Country Club, Shanghai, China
1996–1997 Augusta National Golf Club, Georgia, USA
1996 Old Waverly Golf Club, Mississippi, USA
1995 Desert Mountain Properties, Arizona, USA
1993–1994 Waverley Country Club, Oregon, USA

Tournament work experience

- 2006–2012 Masters Tournament, Georgia, USA
2010 US Open, Pebble Beach, California, USA
2010 Open Championship, St. Andrews, Scotland
2010 Asian Amateur Championship, Kasumigaseki, Japan
2008–2009 Pebble Beach AT&T National Pro-Am, California, USA

- 2007 Open Championship, Carnoustie, Scotland
- 1997 Open Championship, Troon, Scotland
- 1997 Masters Tournament, Georgia, USA

Honors & awards

- 2004 J. Fielding Reed Fellowship, International Plant Nutrition Institute
- 2004 Outstanding Graduate Student Presentation, CSSA C-5 Division
- 2003 Outstanding Graduate Student Presentation, CSSA C-5 Division
- 2002 Green Section Internship, USGA
- 2002 Watson Fellowship, GCSAA
- 1997 Scholar, Northwest Turfgrass Association
- 1997 Bill Martin Memorial Scholarship, OGCSA
- 1996 & 1997 Scholar, GCSAA
- 1996 Scholar, OGCSA

Publications & presentations

JOURNAL ARTICLES

- 2009 Brosnan, J.T., J. DeFrank, M.S. Woods, & G.K. Breeden. 2009. Sodium chloride salt applications provide effective control of sourgrass (*Paspalum conjugatum*) in seashore paspalum turf. *Weed Technology*. 23(2): 251-256
- 2009 Brosnan, J.T., J. DeFrank, M.S. Woods, & G.K. Breeden. 2009. Efficacy of sodium chloride applications for control of goosegrass (*Eleusine indica*) in seashore paspalum turf. *Weed Technology*. 23(1):179-183.
- 2006 Woods, M.S., F.S. Rossi, & Q.M. Ketterings. 2006. Potassium supply rate as measured by exchange membranes in a calcareous sand. *Applied Turfgrass Science*. January.
- 2006 Woods, M.S. Q.M. Ketterings, F.S. Rossi, & A.M. Petrovic. 2006. Potassium availability indices and turfgrass performance in a calcareous sand putting green. *Crop Science*. 46:381-389.
- 2005 Woods, M.S., Q.M. Ketterings, & F.S. Rossi. 2005. Effectiveness of standard soil tests for assessing potassium availability in sand rootzones. *Soil Science*. 170(2):110-119.
- 2005 Woods, M.S., Q.M. Ketterings, & F.S. Rossi. 2005. Measuring the effects of potassium application on calcium and magnesium availability in a calcareous sand. *International Turfgrass Society Research Journal*. 10(2):1015-1020

POSTERS

- 2009 Ketterings, Q., C. Yuan, S. Gami, M. Woods, & R. Rao. 2009. A simple method for estimating cation exchange capacity across a wide range of soils. ASA annual meeting. November.
- 2005 Woods, M.S., F.S. Rossi, & Q. M. Ketterings. 2005. Measuring plant-available nutrients

in sand rootzones. Oregon State University turfgrass field day. August.

2004 Woods, M.S., Q.M. Ketterings, & F.S. Rossi. 2004. Potassium supply rates in a calcareous sand rootzone. ASA annual meeting. November.

INVITED PRESENTATIONS

2012 “Key maintenance factors to keep good putting quality throughout the year.” Syngenta Technical Seminar, Tokyo. 14 February.

2012 Presentations on preparing for the Open Championship, chemical fertilizer programs for sand rootzones, and turfgrass management in Asia. Tennessee Turfgrass Association conference. Nashville, Tennessee. 10 January.

2011 “Why China is such a difficult place to grow grass, and what you can do about it.” 2011 China and US Golf Turf Seminar, Wuhan, China. 1 September.

2011 “Warm-season grass selection for tropical climates.” Golf Course Maintenance Management Conference, Cavite, Philippines. 11 August.

2011 Presentations on plant nutrient requirements, warm-season grass selection, and managing grass in microclimates. Australian Turfgrass Conference, Adelaide. June.

2010 Presentations on choosing grasses and developing management plans for grasses in southern China. 2010 Summer Conference of Course Committee of Hainan Golf Association and China & US Turf Seminar. July.

2009 “Integrated pest and turf management.” Turf Management Best Practice Conference, Kunming, China. December.

2009 “Innovations and trends in Asian sports turf management.” Trends and Opportunities in Tropical Turfgrass Management, CUGE, Singapore, October.

2009 “Reducing chemicals: five easy ways to identify turfgrass problems and solve them using a minimum of chemicals.” 2nd IGOLF Singapore Golf and Environment Forum. Singapore. 27 August.

2009 “Reducing chemicals: five easy ways to identify turfgrass problems and solve them using a minimum of chemicals.” APLGI/IGOLF Indonesian golf and environment forum, Jakarta. 28 May.

2009 “Ten ways to improve turfgrass conditions.” Taiwan golf course operation and management conference, Taipei. 20 May.

2008 “Choosing and managing turfgrass: the 6 core principles.” Taiwan golf course operation and management conference, Taipei. 7 July.

2008 “Irrigation of bentgrass greens: theory and practice.” Kanto Golf Association turfgrass seminar, Tokyo. 3 July.

2008 Presentations on golf course construction, maintenance, and fertilization in the Asia Pacific region. Landscape Industry Council of Hawaii Conference, Honolulu. May.

2008 “Characteristics and selection of turfgrass for this region.” Asian Club Managers’ Conference, Singapore. 21 April.

2007 Presentations on choosing and managing grass in SE Asia. Asia Pacific Golf Development Summit, Singapore. 14 November.

2006 “Environmental issues for golf in East and Southeast Asia.” PGA’s of Europe Annual Conference – Golf and the Environment Summit. Murcia, Spain. 16 November.

- 2006 Presentations on soil testing, fertilization, irrigation water analysis, and turfgrass research in Asia. Philippine International Golf Show Turfgrass Symposium. Manila. 20 October.
- 2006 “The developing turfgrass science research resources in Asia.” Pacific Golf Management greenkeeper conference. Kobe, Japan. 24 October.
- 2006 “Turf nutrition and soil testing.” Northeastern GCSA Educational Symposium. Schenectady, NY. 18 January.

UNIVERSITY SEMINARS & SPECIAL PRESENTATIONS

- 2011 “Native grasses, sunshine hours, and turfgrass management.” UPLB Dep. of Horticulture, Laguna, Philippines. 10 August.
- 2011 “Teaching turfgrass from Thailand to Tennessee.” Univ. of Tennessee Dept. of Plant Sciences seminar, Knoxville, TN. 28 March.
- 2010 Seminars on grass selection and management in Asia. Chiba University graduate school of Horticulture. Chiba, Japan. 8 December.
- 2009 “Green golf management in Asia: golf, money, and the environment.” National University of Singapore. 30 October.
- 2009 “Ten things you should know about turfgrass in Asia.” UPLB Dep. of Horticulture, Laguna, Philippines. 6 August.
- 2009 “Unique challenges of managing turf in Asia.” Univ. of Tennessee Dept. of Plant Sciences seminar, Knoxville, TN. 13 April.
- 2006 “Nutrient availability to creeping bentgrass in sand rootzones.” Cornell Horticulture Seminar Series, Ithaca, NY. 13 February.
- 2004 “Ten years of turfgrass work.” Oregon State University, Corvallis, OR. 28 October.
- 2003 “Soil testing methods for sand rootzones.” Cornell Horticulture Seminar Series, Ithaca, NY. 4 September.

OTHER PRESENTATIONS, SEMINARS & TEACHING

- 2012 “Understanding turfgrass nutrient requirements.” Seminar at Takarazuka GC, Osaka, Japan. 5 June.
- 2012 Asian Turfgrass Roadshow 2012, seminars at Singapore, Bangkok, Ho Chi Minh City, Manila, Hong Kong, and Beijing. 17 to 26 April.
- 2012 “How to prepare for managing creeping bentgrass during summer heat stress.” Seminar at Korea CC, Gyeonggi-do, South Korea. 21 March.
- 2012 Presentations at Sustainable Turfgrass Management in Asia 2012. Chonburi, Thailand. March
- 2012 “Managing and constructing turfgrass rootzones.” Guest lecture in PLSCI 442, University of Tennessee, Knoxville. 12 January.
- 2011 Four weeks of teaching in the India Greenkeeper Education Programme, held at Kolkata, New Delhi, Mumbai, and Bangalore. 7 November to 2 December.
- 2011 Turfgrass management in Asia, a guest lecture for HORT 314, Oregon State University, Corvallis. 14 October.

- 2011 Presentations at Sustainable Turfgrass Management in Asia 2011. Chonburi, Thailand. March.
- 2011 “Application of turfgrass science principles to improve grass conditions.” Philippines Turfgrass Association quarterly meeting, Laguna. 3 March.
- 2011 Presentations about turfgrass management in Japan, held at Tokyo, Fukuoka, and Sapporo, Japan. January.
- 2010–2011 Series of six turf science seminars at Tokyo and Osaka. December to February.
- 2010 Presentations about turfgrass management at Sustainable Turfgrass Management conference at Saujana GC, Kuala Lumpur, Malaysia. October
- 2010 “Optimizing the playing quality of golf course turfgrass.” Okinawa Greenkeepers Association meeting. Okinawa, Japan. 12 October.
- 2010 “Managing the rootzone to optimize playing conditions.” Turf Seminar XI of the Asosiasi Superintendent Padang Golf Indonesia (ASPGI), Bogor, Indonesia. August.
- 2010 “Sustainable management of golf course turfgrass.” Bangladesh Golf Federation, Dhaka, Bangladesh. 27 May.
- 2010 Series of three turf science seminars held at Tokyo, Japan, January, February, and April.
- 2010 Presentations at Sustainable Turfgrass Management in Asia 2010. Chonburi, Thailand. March.
- 2010 Presentations about turfgrass management in Japan, held at Osaka and Kanazawa, Japan. January.
- 2009 “Turfgrass management challenges amidst climate change.” Golf course management conference at Cavite, Philippines. 7 August.
- 2009 “Asia & Hawaii: separated by water, but not by same issues.” USGA Green Section Regional Seminar, Honolulu, HI. 30 March.
- 2009 Presentations at Sustainable Turfgrass Management in Asia 2009 conferences held at Chonburi, Thailand; Manila, Philippines; and Kuala Lumpur, Malaysia. March.
- 2008 “Bentgrass management.” Scotts China Superintendents Seminar, Pattaya, Thailand. 11 November.
- 2008 Presentations at Malaysia Turf Management Workshop, Saujana Resort, Kuala Lumpur. August.
- 2008 Presentations about grass in Asia and soil nutrient analyses at USGA Green Section Regional Seminars: Hawaii, Kauai, Oahu, and Maui. 31 March to 3 April.
- 2008 Asian Turfgrass Field Day. Ayudhdhaya, Thailand. 11 March.
- 2008 Thailand Turfgrass Tour, central Thailand, 12 to 15 January.
- 2007 “Golf courses & the environment in East and Southeast Asia.” Seminars at Tokyo, Japan; Cavite, Philippines; and Bangkok, Thailand. November.
- 2007 “Bermudagrass: if it ain’t broke, why fix it?” Philippines Turfgrass Association meeting. Cavite, Philippines. 9 February.
- 2006 “Green maintenance, American style.” Shimane Prefecture Greenkeeper Association. Onan-cho, Japan. 10 November.
- 2006 “Soil testing and fertilizer recommendations.” Thailand Golf Course Superintendents Association meeting. 5 September.
- 2006 “Turfgrass information resources.” Asian Golf Course Owners Association Annual Meeting. Beijing, China. 14 April.
- 2005 “Testing the sands of time.” Empire State Green Industry Show. Rochester, NY. 16

- November.
- 2005 “Interpreting testing results from sand-based rootzones.” Empire State Green Industry Show, Rochester, NY. 15 November.
- 2005 “Potassium content of turfgrass leaves expressed on a tissue water basis.” CSSA Annual Meeting, Salt Lake City, UT. 7 November.
- 2005 “Measuring the effects of K application on Ca and Mg availability in a calcareous sand.” 10th International Turfgrass Society Conference, Llandudno, Wales. 12 July.
- 2005 Taught two sessions of Horticulture 330 – Turf-grassing the landscape. Cornell University, Ithaca, NY.
- 2004 “Estimation of cation exchange capacity in sand rootzones.” CSSA Annual Meeting, Seattle, WA. 1 November.
- 2004 Taught one laboratory session of Horticulture 455 – Mineral Nutrition of Horticultural Crops. Cornell University, Ithaca, NY.
- 2004 “Soil testing for turfgrass sites.” Central NY GCSA, Syracuse, NY. 6 April.
- 2003 “Potassium application effects on extractable nonacid cations in a calcareous sand putting green.” CSSA Annual Meeting, Denver, CO. 3 November.
- 2002 “What is soil testing?” New York State Turfgrass Association annual conference, Syracuse, NY. 12 November.
- 2001 “Golf course maintenance practices in Asia.” Oregon State University, Corvallis, OR. 12 February.
- 2000 “Moving from intern to golf course superintendent.” Oregon State University, Corvallis, OR. 8 February.
- 1997 “An internship at Augusta National Golf Club.” Oregon GCSA, Portland, OR. November.

UNREFEREED PUBLICATIONS

- 2012 Woods, M.S. 2012. “Soil moisture content of putting greens in Japan” (in Japanese). *Golf Course Seminar*. Tokyo. August.
- 2012 Woods, M.S. 2012. “Cooling the soil” (in Japanese). *Golf Course Seminar*. Tokyo. July.
- 2012 Woods, M.S. 2012. “Green speed and the Brede equation” (in Japanese). *Golf Course Seminar*. Tokyo. June.
- 2012 Woods, M.S. 2012. “Rolling greens: what do the data show?” (in Japanese). *Golf Course Seminar*. Tokyo. May.
- 2012 Woods, M.S. 2012. “A common cause for putting green problems” (in Japanese). *Golf Course Seminar*. Tokyo. April.
- 2012 Woods, M.S. 2012. “Fertilizing greens in the West Coast style” (in Japanese). *Golf Course Seminar*. Tokyo. February.
- 2012 Woods, M.S. 2012. “Firm putting greens at Australia” (in Japanese). *Golf Course Seminar*. Tokyo. January.
- 2011 Woods, M.S. 2011. “Using soil moisture meters” (in Japanese). *Golf Course Seminar*. Tokyo. December.
- 2011 Woods, M.S. 2011. “Choosing soil moisture meters” (in Japanese). *Golf Course Seminar*. Tokyo. November.

- 2011 Woods, M.S. 2011. "Converting to Ultradwarf Bermudagrass: why and how" (in Japanese). *Golf Course Seminar*. Tokyo. October.
- 2011 Woods, M.S. 2011. "What's in the irrigation water at the Home of Golf?" (in Japanese). *Golf Course Seminar*. Tokyo. September.
- 2011 Woods, M.S. 2011. "An Almost Insurmountable Problem: nematodes" (in Japanese). *Golf Course Seminar*. Tokyo. August.
- 2011 Woods, M.S. 2011. "Thai Country Club: Great greens with terrible water" (in Japanese). *Golf Course Seminar*. Tokyo. July.
- 2011 Woods, M.S. 2011. "Tublamu Navy Golf Course & the 2004 Indian Ocean Tsunami" (in Japanese). *Golf Course Seminar*. Tokyo. June.
- 2011 Woods, M.S. 2011. "How Poor Greens Became Excellent Greens at Vietnam: a case study" (in Japanese). *Golf Course Seminar*. Tokyo. May.
- 2011 Woods, M.S. 2011. "Data + Science + Technique = Better Grass Conditions" (in Japanese). *Golf Course Seminar*. Tokyo. April.
- 2011 Woods, M.S. & F.S. Rossi. 2011. "The Park Grass Experiment and the Fight Against Dogma." *USGA Green Section Record*. 49(16).
- 2011 Woods, M.S. 2011. "A Scientific Guide to Turfgrass Maintenance this Year: Part 3" (in Japanese). *Golf Course Seminar*. Tokyo. March.
- 2011 Woods, M.S. 2011. "A Scientific Guide to Turfgrass Maintenance this Year: Part 2" (in Japanese). *Golf Course Seminar*. Tokyo. February.
- 2011 Woods, M.S. 2011. "A Scientific Guide to Turfgrass Maintenance this Year: Part 1" (in Japanese). *Golf Course Seminar*. Tokyo. January.
- 2010 Woods, M.S. 2010. "Seashore Paspalum in England?" *Hawaii GCSA Newsletter*. December.
- 2010 Woods, M.S. 2010. "Labor Analysis and Priority of Maintenance Work" (in Japanese). *Golf Course Seminar*. Tokyo. December.
- 2010 Woods, M.S. 2010. "Practical Application of Turfgrass Science Principles" (in Japanese). *Golf Course Seminar*. Tokyo. November.
- 2010 Woods, M.S. 2010. "The Foundation for a System of Golf Course Maintenance" (in Japanese). *Golf Course Seminar*. Tokyo. October.
- 2010 Woods, M.S. 2010. "One Good Thing About the Summer" (in Japanese). *Golf Course Seminar*. Tokyo. September.
- 2010 Woods, M.S. 2010. "Sod Farms Thailand Style." *Hawaii GCSA Newsletter*. August.
- 2010 Woods, M.S. 2010. "Pebble Beach Putting Greens: Playing Condition vs. Appearance" (in Japanese). *Golf Course Seminar*. Tokyo. August.
- 2010 Woods, M.S. 2010. "Does Phosphorus Cause Algae on Putting Greens?" (in Japanese). *Golf Course Seminar*. Tokyo. July.
- 2010 Woods, M.S. 2010. "Thatch: Definition & Management" (in Japanese). *Golf Course Seminar*. Tokyo. June.
- 2010 Woods, M.S. 2010. "Current Trends in GC Maintenance" (in Japanese). *Golf Course Seminar*. Tokyo. May.
- 2010 Woods, M.S. 2010. "Turfgrass Maintenance by the Numbers" (in Japanese). *Golf Course Seminar*. Tokyo. April.
- 2010 Woods, M.S. 2010. "Roll Three Times a Week for Better Greens" (in Japanese). *Golf Course Seminar*. Tokyo. March.

- 2010 Woods, M.S. 2010. "Old and New, from Scotland to China" (in Japanese). *Golf Course Seminar*. Tokyo. February.
- 2010 Woods, M.S. 2010. "Two Equations for the New Year" (in Japanese). *Golf Course Seminar*. Tokyo. January.
- 2009 Woods, M.S. 2009. "A Christmas Gift List for the Turfgrass Scientist" (in Japanese). *Golf Course Seminar*. Tokyo. December.
- 2009 Woods, M.S. 2009. "The Optimum Level of Plant Nutrients in the Soil" (in Japanese). *Golf Course Seminar*. Tokyo. November.
- 2009 Woods, M.S. 2009. "Some New Turfgrass Research Results" (in Japanese). *Golf Course Seminar*. Tokyo. October.
- 2009 Woods, M.S. 2009. "Beyond the Stimpmeter." *Hawaii GCSA Newsletter*. October.
- 2009 Woods, M.S. 2009. "The Critical Moisture Content of Soils" (in Japanese). *Golf Course Seminar*. Tokyo. September.
- 2009 Woods, M.S. 2009. "The Critical Component of Putting Green Management" (in Japanese). *Golf Course Seminar*. Tokyo. August.
- 2009 Woods, M.S. 2009. "Effective spraying: nozzles, water volume, and droplet size" (in Japanese). *Golf Course Seminar*. Tokyo. July.
- 2009 Woods, M.S. 2009. "The 2009 US Open, Bethpage Black, and Integrated Pest Management" (in Japanese). *Golf Course Seminar*. Tokyo. June.
- 2009 Woods, M.S. 2009. "The most important thing to know about creeping bentgrass" (in Japanese). *Golf Course Seminar*. Tokyo. May.
- 2009 Woods, M.S. 2009. "Putting It All Together: summarizing the six points of greenkeeping" (in Japanese). *Golf Course Seminar*. Tokyo. April.
- 2009 Woods, M.S. 2009. "Golf Course Maintenance Expenditures in 2009" (in Japanese). *Golf Course Seminar*. Tokyo. March.
- 2009 Woods, M.S. 2009. "2008 International Turfgrass Science Quiz - Answers & Discussion" (in Japanese). *Golf Course Seminar*. Tokyo. February.
- 2009 Woods, M.S. 2009. "Why is grass green?" (in Japanese). *Golf Course Seminar*. Tokyo. January.
- 2008 Woods, M.S. 2008. "International turfgrass science quiz" (in Japanese). *Golf Course Seminar*. Tokyo. December.
- 2008 Woods, M.S. 2008. "Sand topdressing by numbers" (in Japanese). *Golf Course Seminar*. Tokyo. November.
- 2008 Woods, M.S. 2008. "Use the nutrients already in the soil: simple fertilization." *Hawaii GCSA Newsletter*. October.
- 2008 Woods, M.S. 2008. "Simple is better: an amazing experiment at Rothamsted" (in Japanese). *Golf Course Seminar*. Tokyo. October.
- 2008 Woods, M.S. 2008. "Coring: do it right, and get better greens" (in Japanese). *Golf Course Seminar*. Tokyo. September.
- 2008 Woods, M.S. 2008. "Five maintenance activities that may increase roots" (in Japanese). *Golf Course Seminar*. Tokyo. August.
- 2008 Woods, M.S. 2008. "Fertilizer for grass: soil, leaves, and growth potential" (in Japanese). *Golf Course Seminar*. Tokyo. July.
- 2008 Woods, M.S. 2008. "Turfgrass information resources." *Golf Business Asia*. Singapore. July.

- 2008 Woods, M.S. 2008. "Soil water: how to manage it in the summer" (in Japanese). *Golf Course Seminar*. Tokyo. June.
- 2008 Woods, M.S. 2008. "What is greenkeeping? The 6 basic principles" (in Japanese). *Golf Course Seminar*. Tokyo. May.
- 2008 Woods, M.S. 2008. "What is the Asian Turfgrass Center?" *Asian Golf Business*. May.
- 2008 Woods, M.S. 2008. "Course maintenance standards." *Golf Business Asia*. Singapore. May.
- 2008 Woods, M.S. 2008. "The right work at the right time." *Golf Business Asia*. Singapore. March
- 2008 Woods, M.S. 2008. "Do fairways need a sandcap?" *Asian Golf Business*. Singapore. January.
- 2008 Woods, M.S. 2008. "Choosing and managing warm season grass." *Golf Business Asia*. Singapore. January.
- 2007 Woods, M.S. 2007. "Six key points about turfgrass." *Golf Business Asia*. Singapore. November.
- 2007 Woods, M.S. 2007. "Important questions about turfgrass maintenance." *Golf Business Asia*. Singapore. September.
- 2007 Woods, M.S. 2007. "Assessment of turfgrass conditions and maintenance practices on golf courses in East and Southeast Asia." Technical paper for R&A Golf Course Committee. 22 June.
- 2006 Woods, M.S. 2006. "Soil test interpretation: the sufficiency level approach." *TurfNet Monthly*. July
- 2006 Woods, M.S. 2006. "Interview about turfgrass in Asia." *Golf Business Management*. Singapore. April.
- 2006 Woods, M.S. 2006. "Charles Vancouver Piper: the agrostologist." *USGA Green Section Record*. March/April.
- 2006 Woods, M.S. 2006. "Opportunities and challenges for golf course maintenance in Asia." *Golf Business Management*. Singapore. February.
- 2005 Boyda, E.K., and M.S. Woods. 2005. "Wave of Destruction." *GOLF Magazine*. 47(12):125-131.
- 2005 Woods, M.S. 2005. "A visit to Famlinks." *Cornell University Turfgrass Times (CUTT)*. 16(3): 6-8, 10.
- 2005 Woods, M.S. 2005. "The 'best' soil test." *Cornell University Turfgrass Times (CUTT)*. 16(2): 6,8.
- 2004 Woods, M.S. 2004. "Does Potassium Fertilizer Really Increase Roots?" *TurfNet Monthly*. November.
- 2004 Woods, M.S. 2004. "Water-based Extraction Methods for Turf Soils." *TurfNet Monthly*. May.
- 2003 Woods, M.S. 2003. "Base cation extraction from calcareous sand putting greens." *Cornell Turfgrass Field Day Report*.
- 2002 Woods, M.S. 2002. "Fertility management of golf course putting greens." *Cornell University Turfgrass Times (CUTT)*. 13(2): 1,4-6.
- 2002 Rossi, F.S. and M.S. Woods. 2002. "Market will determine which products are worth buying." *Golfweek's Superintendent News*. 23 August.
- 2001 Woods, M.S. 2001. "Profile of Manila Southwoods Superintendent Darren Moore." *Golfweek's Superintendent News*. 16 October.

- 2001 Woods, M.S. 2001. "Transition Period for Japan Courses." *Golfweek's Superintendent News*. 13 April.
- 2000 Woods, M.S. 2000. "Benefits Abound with Course Work Abroad." *Golfweek's Superintendent News*. 8 December.
- 2000 Woods, M.S. 2000. "Japan Course Stands Alone." *Golfweek's Superintendent News*. 10 November.
- 2000 Woods, M.S. 2000. "Pump Station Service in Asia." *Golf Course News International*. October.
- 2000 Woods, M.S. 2000. "Practice in Shanghai is often Full-service." *Golfweek's Superintendent News*. 21 July.
- 2000 Woods, M.S. 2000. "Good Parts often Hard Finds in Asia." *Golfweek's Superintendent News*. 23 June.
- 2000 Woods, M.S. 2000. "Huang Shows off Silport for China Open." *Golfweek's Superintendent News*. 12 May.
- 2000 Woods, M.S. 2000. "China Course Maintenance has many Differences." *Golfweek's Superintendent News*. 18 February.

Professional organisations

Member, British and International Golf Greenkeepers Association (BIGGA)
 Member, Crop Science Society of America (CSSA)
 Member, Golf Course Superintendents Association of America (GCSAA)
 Golf Environment Organisation (GEO), Scientific Network
 International Golf and Life Foundation (IGOLF), Council of Experts
 Member, International Turfgrass Society (ITS)
 Member, Northwest Turfgrass Association (NTA)
 Member, Oregon Golf Course Superintendents Association (OGCSA)
 Member, Philippines Turfgrass Association (PTA)
 Member, Soil Science Society of America (SSSA)
 Member, Thailand Golf Course Superintendents Association (TGCSA)

Languages

English (native speaker)
Filipino (intermediate proficiency)
Japanese (elementary proficiency)

Websites Administered

[Asian Turfgrass Center](#), home page of ASIAN TURFGRASS CENTER
[Viridescent](#), regularly updated blog about turfgrass in Asia
[Asian Turfgrass Climate Charts](#), site with both interactive and static charts showing

climatological normals data and their relation to turfgrass performance
[Asian Turf Seminar](#), with information about Sustainable Turfgrass Management in Asia
conferences and related seminars
[India Greenkeeper Education Programme](#), containing educational content about turf-
grass management and golf course maintenance in India

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