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Robert “Bobby” Grisso, P.E.

Professor and Extension Engineer

Department of Biological Systems Engineering

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Education:

Institution and Location	Degree	Year Conferred	Field of Study
Virginia Tech, Blacksburg, Virginia	B.S.	1978	Agricultural Engineering
Virginia Tech, Blacksburg, Virginia	M.S.	1980	Agricultural Engineering
Auburn University, Auburn, Alabama	Ph.D.	1985	Agricultural Engineering

Professional Experience:

Associate Director, ANR Extension Programs, Virginia Tech, Blacksburg, VA, Sept. 2012 to present.

Professor, Virginia Tech, Blacksburg, VA, June 2001 to present. Extension and teaching in the areas of machinery management, precision farming, farm safety and improved machinery performance.

Professor, University of Nebraska, Lincoln, NE, July 1996 to June 2001.

Associate Professor, University of Nebraska, Lincoln, NE, July 1990 to 1996.

Assistant Professor, University of Nebraska, Lincoln, NE, October 1985 - July 1990.

Research, Extension and Teaching Achievements:

Since leaving Auburn University, Grisso spent 16 years at the University of Nebraska, earning full professor status in 1996. Then in June of 2001, he joined the faculty at Virginia Tech. While at Nebraska, he received the 1999 Nebraska Farmer Magazine Safety Award for the Nebraska AgrAbility Project. He was a member of the Turfgrass Science Team that received the 1999 Herbert H. Davis Special Recognition Award from Nebraska Golf Hall of Fame. Other awards include: Faculty Service award, University of Nebraska, 1997; Distinguished Service Award, Nebraska Cooperative Extension Association, Specialists' Section, 1996; Nolan Mitchell Young Extension Worker Award of the American Society of Agricultural Engineering (ASAE) in 1994; and the Outstanding Young Specialist Award from the Nebraska Cooperative Extension Association, University of Nebraska, 1989. He was a participant in the 1991 Institute of Agricultural and Natural Resources (IANR) Team Award and recognized for his work in the accurate placement of pesticides on turfgrass. Grisso received the 2013 *SMV Technologies Ergonomics, Safety and Health Award* and has twenty-seven career Blue Ribbon Award for Excellence for outstanding extension materials. In 2014, he was recognized with the Outstanding Alumnus Award from Auburn University.

Grisso's primary extension thrust is in the accurate placement and safe handling of pesticides by farmers and other certified applicators. He has also developing these educational thrusts with precision farming concepts to assure that inputs of seed, nutrients and pesticides reduce costs and environmental impacts. He has co-authored 70 referred journal publications and more than 160 extension related manuscripts. His research and extension work is cited in more than 100 trade magazines. From 1995-2008, he served as associate editor for ASABE, Power and Machinery Division for the *Transactions of the ASABE* and *Applied Engineering in Agriculture*. He was elected and served as a Board of Trustees for ASABE (2007-2009). He was recognized as an ASABE Fellow, Outstanding PM Reviewer and Standard Developer.

Honors and Awards Received

Outstanding Alumnus Award, COE, Auburn University, 2014
ASABE SMV Technologies Ergonomics, Safety and Health Award, 2013
ASABE Outstanding PM Reviewer, 2010
ASABE Standard Developer, 2010
ASABE Fellow, 2009.
ASAE Distinguished Lecture Series – Traction and Tractor Performance, ASAE, 2003
Registered Professional Agricultural Engineer (PE)

Journal Articles & Book Chapters (since 2012)

Wolf, R.E., P.A., Hipkins, S.M. Bretthauer, R.D. Grisso, H.M. Hanna, R.K. Taylor, and J.A. Wilson. 2015. The SpotOn™ sprayer calibrator, a digital flow meter: accuracy evaluation and use in pesticide safety education programs. *Journal of Pesticide Safety Education (JPSE)* 17:15-24
Liu, J., R.D. Grisso, and J.S. Cundiff. 2013. Harvest systems and analysis for herbaceous biomass, Chapter 6, IN: Biomass Now - Cultivation and Utilization; Book 2, ISBN 980-953-51-1106-1, In-Tech (pdf)
Grisso, R.D., D. McCollough, J.S. Cundiff, and J. Judd. 2013. Harvest schedule to fill storage for year-round delivery of grasses to biorefinery. *Biomass & Bioenergy* 55:331-338
Brookmire, L., P. Mallikarjunan, M. Jahncke, and R. Grisso. 2013. Optimum cooking conditions for shrimp and Atlantic salmon. *Journal of Food Science* 78(2):S303-S313
Liu, J., R.D. Grisso, and J.S. Cundiff. 2013. Harvest systems and analysis for herbaceous biomass, Chapter 5, IN: Biomass; Book 2, ISBN 980-953-307-506-3, In-Tech
Kandel, M.K., R.D. Grisso, T.E. Diller and A.L. Wicks. 2012. Monitor system to detect heat stress and position of youth lawn care workers. *J. Mechatronics* 1(1):12-20
Cundiff, J.S., and R.D. Grisso. 2012. In-field operations to deliver biomass to a biorefinery. *Agricultural Engineering International: CIGR Journal* 14(4):115-122

Extension Fact Sheets (Selected Peer-reviewed since 2014)

Grisso, R.D., J. Perumpral, G.T. Roberson, and R. Pitman. 2015. Using Tractor Test Data for Selecting Farm Tractors. VCE Publication 442-072 (BSE-176P), posted March 11, 2015, Virginia Tech, Blacksburg, VA
Ogejo, J.A., and R. Grisso. 2015. Biodiesel Fuel. VCE Publication 442-880 (BSE-180P), posted January 14, 2015, Virginia Tech, Blacksburg, VA
Grisso, R.D., J. Perumpral, D. Ohanehi, and Kirk Ballin. 2014. Assistive Technologies in Agriculture. VCE Publication 442-084 (BSE-183P), posted December 3, 2014, Virginia Tech, Blacksburg, VA
Grisso, R.D., M.J. Weaver, and P.A. Hipkins. 2014. Fine Tuning a Sprayer with “Ounce” Calibration Method. VCE Publication 442-453 (BSE-178P), posted December 3, 2014, Virginia Tech, Blacksburg, VA
Grisso, R.D., J. Perumpral, D. Ohanehi, and Kirk Ballin. 2014. Machinery Safety on the Farm. VCE Publication 442-092 (BSE-179P), posted December 3, 2014, Virginia Tech, Blacksburg, VA