



## Daniel Ess

Ph.D. Virginia Polytechnic Institute and State University - 1994

### Associate Professor

Agricultural and Biological Engineering  
Purdue University  
West Lafayette, IN 47907-2093  
Phone: (765) 496-3977  
ess@purdue.edu

Teaching Academy Fellow, Purdue University, 2003

Outstanding Teacher Award, School of Agriculture, Purdue University, 2002

### Research Areas:

Agricultural Systems Management. Precision agriculture, sustainable agricultural production systems & agricultural systems management.

### Classes Taught:

AGR 101 – Intro. To the College of Agriculture & Purdue  
ASM 104 – Intro. To Agricultural Systems  
ASM 221 – Career Opportunities Seminar  
ASM 322 – Technology for Precision Agriculture  
ASM 477 – Rural Environmental Waste Management  
ASM 495 – Agricultural Systems Management  
ASM 530 – Power and Machinery Management  
ASM 570 – Agricultural Structures

### Selected Publications (last 5 years):

1. **Ess, D.R.** and M.T. Morgan. 2010. The Precision-Farming Guide for Agriculturists 3<sup>rd</sup> Ed. John Deere Publishing, Moline, IL. 166 p.
2. **Ess, D.R.** and S.E. Hawkins. Site-Specific Manure Management. *Resource* 18(5): 14.

3. Snyder, S.C., B.F. French, W.E. Field, R.L. Tormoehlen, and D.R. Ess. Identification and validation of agricultural hazardous occupations order certification program instructor competencies. *Journal of Agricultural Education*, Volume 54(1) - 2013 - DOI: 10.5032/jae.2013.01111.
4. Jiru, T.E., B.G. Kaufman, H.G. Gibson, **D.R. Ess**, K.E. Ileleji, and D.E. Maier. 2010. Testing the performance and compatibility of degummed soybean heating oil blends for use in residential furnaces. *Fuel*. 89:105-113.

### Patent:

1. Adamchuk, V.I., M.T. Morgan and **D.R. Ess**. 2002. System and method for automated measurement of soil pH. 6356830.