

## Danielle Bellmer, Associate Professor

### Degrees:

BS Michigan State University, East Lansing, MI, December, 1992  
Food Engineering, Department of Agricultural Engineering

PhD Purdue University, West Lafayette, IN, September, 1996  
Department of Agricultural and Biological Engineering

### Years of Service:

Associate Professor, Biosystems and Agricultural Engineering, Oklahoma State University, Stillwater, OK. June 2003 – present.

Assistant Professor, Biosystems and Agricultural Engineering, Oklahoma State University, Stillwater, OK. June 1997 – 2003.

Assistant Professor, Food Science Department, Delaware Valley College, Doylestown, PA. August, 1996 - May, 1997.

Graduate Research Assistant, Agricultural and Biological Engineering, Purdue University, West Lafayette, IN, January 1993 – August 1996.

### Consulting and Patents:

Patil, K.N., R.L. Huhnke, and D.D. Bellmer. 2006. "Downdraft Gasifier with Internal Cyclonic Combustion Chamber", U.S. Provisional Patent.

### Licensure: EIT, Oklahoma

### Principal publications of the last five years:

Patil, K.N., R. L. Huhnke, and D. D. Bellmer. 2007. Influence of Internal Baffles on Mixing Characteristics of Biomass in a Fluidized Sand Bed. *Agricultural Engineering International: the CIGR Ejournal*. EE 06 016. Vol. IX.

Bangalore, D and D. Bellmer. 2006. Utilization of microbubbles for enhancement of oxygen transfer in xanthan gum fermentation. *Chemical Engineering Communications* 193:1232-1252.

Patil, K., T.J. Bowser, D.D. Bellmer, and R.L. Huhnke. 2005. Fluidization characteristics of sand and chopped switchgrass-sand mixtures. *Agricultural Engineering International: the CIGR Ejournal*. EE 04 005 Vol VII.

Ulmer, J.D., R.L. Huhnke, D.D. Bellmer, and D.D. Cartmell. 2004. Acceptance of ethanol blended gasoline in Oklahoma. *Biomass & Bioenergy*. 27(5):437-444.

Davidson, E.B., C. B. Greenberg, D.D. Bellmer, R.J. Morton, M.E. Payton. 2004. *In Vitro* Tensile Strength of Four Monofilament Absorbable Suture Materials in Sterile and Infected Canine Urine. *American Journal of Veterinary Research*. June.

Lalman, J.A., H. Alost, R. Bejankiwar, and D. Bellmer. 2003. Kinetics of glucose fermentation by a mixed culture in the presence of linoleic, oleic, and stearic acid. *Environmental Technol.* 24:1471-1478.

McGlynn, W.G., D. D. Bellmer, and S.S. Reilly. 2003. Effect of pre-cut sanitizing dip and water jet cutting on shelf life of fresh-cut watermelon. *Journal of Food Quality* 26 (6): 489-498.

Alost, H., J. Lalman, D. Jing, and D. Bellmer. 2003. Glucose fermentation in the presence of linoleic, oleic, and stearic acids by a mixed culture. *J. Chem Tech Biotech* 79:1-8.

**Professional Society Memberships:**

Alpha Epsilon Honor Society  
American Society of Agricultural and Biological Engineers (ASAE)  
Institute of Food Technologists (IFT)  
Sweet Sorghum Ethanol Association (SSEA)

**Honors and Awards:**

Haliburton Outstanding Young Faculty Member Award, CEAT, OSU, 2003.  
Magoon Award for Outstanding Teaching Assistants, Purdue University, 1996.  
USDA National Needs Fellow, Purdue University, 1993-1995.

**Institutional and Professional Service:**

Alpha Epsilon, National President, 1998-2000; OK Stud. Section Advisor, 2002-present  
American Society of Agricultural Engineers (ASAE)  
    Food and Process Engineering Institute Division Chair, 2006-2007  
    FPE -709, Biomass Energy & Industrial Products Committee Chair, 2002-2004  
    FPE -703, Food Processing Committee Chair, 2005-2006  
    ASAE Oklahoma Section Chair, 2001  
Sweet Sorghum Ethanol Association, Founding Member, 2007  
Society of Women Engineers, OSU Student Section Faculty Advisor, 1999-2005

**Professional Development Activities:**

Global consultation on Sweet Sorghum Ethanol in Rome, Italy, November 2007  
Review Panel for USDA National Research Initiative Comp Grants Program, April 2000  
Review Panel for US Dept of Homeland Security Center for Post-harvest Food Protection and Defense, March 2004.

**Percent time:**

Research and Scholarly activities: 75%; Committed to the academic program: 25%