

## **Praveen Kolar**

Assistant Professor

Biological and Agricultural Engineering

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### **Education**

Ph. D., 2008, Biological and Agricultural Engineering, University of Georgia, Athens, GA

- *Low-temperature catalytic oxidation of volatile organic compounds using novel catalysts*

M. S., 2004, Biological and Agricultural Engineering, Louisiana State University, Baton Rouge, LA  
Minor: Experimental Statistics

- *Design and development of a process control temperature system for eastern oyster Crassostrea virginica research*

M.Tech., 1995, Aquacultural Engineering, Indian Institute of Technology, Kharagpur, India

- *Vermicomposting of household wastes for use in aquaculture*

B. Tech., 1991, Civil Engineering, Sri Venkateswara University, Tirupati, India

### **Academic and industrial experience**

August 2008-Present, Assistant Professor-Agricultural Waste Management Engineering, Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC

August 2004-July 2008, Graduate Research Assistant, Biological and Agricultural Engineering, The University of Georgia, Athens, GA

August 2002-August 2004, Graduate Research Assistant, Biological and Agricultural Engineering, Louisiana State University, Baton Rouge, LA

April 1997-August 2002, Technical Manager, Navayuga Exports Limited, Bhubaneswar, Orissa, India

February 1995-March 1997, Project Engineer, Navayuga Exports Limited, Bhubaneswar, Orissa, India

## Academic scholarships, awards, and honors

- The Institute of Biological Engineering Presidential citation award, 2008
- The University of Georgia future leaders' 2007
- The University of Georgia graduate school travel award for 2006, and 2007
- Best abstract award, Louisiana chapter of American Fisheries Society 25<sup>th</sup> annual meeting, Baton Rouge, LA, March 2004
- Louisiana State University graduate school travel award for 2004
- The government of India, Graduate Aptitude Test in Engineering (GATE) scholarship, 1993-1995

## Refereed publications

1. Kolar, P and J. R. Kastner, 2008. Low-temperature catalytic oxidation of aldehyde mixtures using wood fly ash: kinetics, mechanism, and effect of ozone (*in review*), *Applied Catalysis. B: Environmental*
2. Kolar, P., J. R. Kastner, and J. Miller. 2007. Low temperature catalytic oxidation of aldehydes using wood fly ash and molecular oxygen, *Applied Catalysis. B: Environmental*, (76): 203-217
3. Kastner, J. R., R. Gangavaram, P. Kolar, C. Xu, and A. Teja. 2008. Catalytic ozonation kinetics of propanal using wood fly ash and metal nanoparticle impregnated carbon, *Environmental Science and Technology*, 42 (2): 556–562
4. Wang, L., P. Kolar, J. R. Kastner, and B. Herner. 2008. Biofiltration kinetics of a gaseous aldehyde mixture using a synthetic matrix, *Journal of Air and Waste Management Association*, 58 (3): 412-23
5. J. R. Kastner., J. Miller, P. Kolar, and K. C. Das. 2008. Catalytic ozonation of ammonia using biomass char and wood fly ash (in review), *Environmental Science and Technology*

## Abstracts and presentations

1. Praveen Kolar and James Kastner. 2008. Low temperature catalytic oxidation of volatile organic compounds mixture using wood fly ash and oxygen, Institute of Biological Engineering Annual Conference, Chapel Hill, NC, March 8-10, 2008
2. Praveen Kolar, James Kastner, and Joby Miller. 2007. Low temperature catalytic oxidation of volatile organic compounds using wood fly ash, American Society of Agricultural and Biological Engineers Annual Meeting, Minneapolis, MN, June 17-20, 2007
3. Praveen Kolar and James Kastner. 2007. Catalytic oxidation of volatile organic compounds using solid wastes, Institute of Biological Engineering Annual Conference, St. Louis, MO, March 30-April 1, 2007

4. Praveen Kolar and James Kastner. 2007. Catalytic oxidation of volatile organic compounds using metal oxides and wood fly ash, Georgia Association of Water Professionals Annual Meeting, Atlanta, GA, March 14-15, 2007
5. Praveen Kolar and James Kastner. 2006. Catalytic ozonation of propanal using metal nano-particle impregnated carbon, American Society of Agricultural and Biological Engineers Annual Meeting, Portland, OR, July 9-12, 2006
6. Praveen Kolar and James Kastner. 2006. Advanced environmental catalysts from biomass, Institute of Biological Engineering Annual Conference, Tucson, AZ, March 9-12, 2006
7. Praveen Kolar and James Kastner. 2006. Enhanced air pollution control by coupling catalytic ozonation and biofiltration, Institute of Biological Engineering Annual Conference, Tucson, AZ, March 9-12, 2006
8. Praveen Kolar and Steven G. Hall. 2004. Design and testing of an automated temperature control system for conditioning aquatic species, Institute of Biological Engineering Annual Conference, Fayetteville, AR, January 9-11, 2004
9. Praveen Kolar and Steven Hall. 2004. Use of a temperature control system for cell proliferation studies on eastern oyster *Crassostrea virginica*, Louisiana Chapter of American Fisheries Society 25 th Annual Meeting, Baton Rouge, LA, February 2004
10. Praveen Kolar and Steven G. Hall. 2003. Instrumentation in aquaculture systems, Annual meeting of Audubon Center for Endangered Species Research, New Orleans, LA, August 12, 2003

### **Invited presentations**

11. Praveen Kolar. 2002. An overview of shrimp aquaculture in India, Louisiana State University Biological and Agricultural Engineering Graduate Student Symposium, September 28, 2002

### **Professional affiliations**

Student member of the Institute of Biological Engineering (IBE), American Society of Agricultural and Biological Engineers (ASABE), Air and Waste Management Association (AWMA), and full member of Sigma Xi

### **Professional service**

- Technical reviewer: Transactions of ASABE
- Graduate Councilor: The Institute of Biological Engineering (IBE) (2005)
- Co-organizer: The IBE bioethics session (2006, 2007, and 2008)