



Livestock and Poultry Environmental (LPE) Learning Center.  
Educational Webcast Series  
<http://www.extension.org/animal+manure+management>

## Thermal Conversion of Animal Manure to Biofuel February 28, 2014

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Continued advances in technology have facilitated new avenues to access and extract energy (in various forms) from materials such as animal manure and crop residues that have not traditionally been considered viable fuel sources. Thermo-Chemical conversion encompasses the chemical conversion of such biomass feed stocks into energy products through action of thermal processes such as Combustion, Gasification, and Pyrolysis. Biomass gasification is a well-developed technology that has the potential to convert various feed stocks into value added products for on-farm heat generation and carbon sequestration. The availability of on-farm gasifiers that can handle diverse feed stocks is limited and represents a hurdle to the widespread utilization. Please tune-in to the upcoming Thermal Conversion of Animal Manure to Biofuel webinar, as Dr. Samy Sadaka discusses his current research efforts in Thermo-chemical conversion technologies and explores some of the bio-energy prospects that this field offers. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) has been submitted.*

**Dr. Samy Sadaka** is an Assistant Professor and Extension Engineer in the Biological and Agricultural Engineering department with the University of Arkansas-Division of Agriculture Cooperative Extension Service. He received his Ph.D. in Agricultural Engineering, a joint program between Dalhousie University (Nova Scotia, Canada) and Alexandria University (Egypt). Since starting with the University of Arkansas in 2007, his main focus has been on gasification and pyrolysis of various feedstocks. Phone: 501-671-2298; E-mail: [ssadaka@uaex.edu](mailto:ssadaka@uaex.edu)



**Szymanski “Rick” Fields II** received his M.S. degree from Alabama Agricultural and Mechanical University in Plant and Soil Science. He joined the University of Arkansas-Division of Agriculture Cooperative Extension Service as a Program Associate in 2011. His programming emphasis includes efforts in watershed stewardship, nutrient management and producing educational products, as well as supportive roles in conducting research in the field of Biological and Agricultural Engineering. Rick will serve as the moderator for the webcast. Phone: (501) 671-2151; Email: [rfields@uaex.edu](mailto:rfields@uaex.edu)

### How Do I Participate?

On the day of the webcast, go to [www.extension.org/58813](http://www.extension.org/58813) to download the speaker’s power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: [www.extension.org/8924](http://www.extension.org/8924).

### For More Information

- Auger Reactor Gasification <http://www.extension.org/65665#Auger%20Reactor%20Gasification>

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation’s best science-based resources. See our website at: <http://www.extension.org/animal+manure+management>.