

# ACREC NEWS

The newsletter of the Clemson University Animal Co-Products Research and Education Center

Volume 1, Number 1

September, 2007

Welcome to the inaugural edition of the “ACREC News.” This newsletter is designed to keep you informed of the latest information concerning the Clemson University Animal Co-Products Research and Education Center (ACREC). This newsletter will be distributed electronically. We welcome your comments/questions about any of the projects. We also would like to use this venue to request suggestions on future research topics. Through this forum we hope to bring industry, government, and academia together to work on topics of great importance to the rendering industry. Please send e-mail comments to Annel Greene at [agreene@clemson.edu](mailto:agreene@clemson.edu).

Unfortunately, we have only a partial e-mail address list of the Fats and Proteins Research Foundation (FPRF) membership and those involved in the rendering industry. Therefore, we ask your help in gathering the e-mail addresses of all members of FPRF and anyone else involved in the animal co-products industry so we may distribute this newsletter to the entire group. Please e-mail contact information to Ms. Andrea Kesler at [akesler@clemson.edu](mailto:akesler@clemson.edu).

We are very pleased to welcome Mr. Doug Smith of Baker Commodities, Inc. to the ACREC Research Committee. We thank Mr. Fred Wellons for his dedicated service to the committee and wish him the very best in his new endeavors.

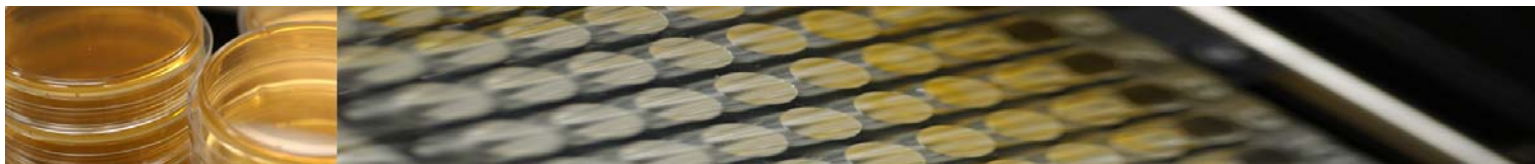
We also are very pleased to welcome Ms. Andrea Kesler in the newly created Administrative Assistant position for ACREC. Ms. Kesler has worked on campus for nearly 20 years including in the Animal & Veterinary Sciences department and the Library. We thank Dr. Doris Helms and the other Clemson University administrators for creating and funding this position. Ms. Kesler’s phone number is 864-656-1757 and FAX is 864-656-5162. Her e-mail address is: [akesler@clemson.edu](mailto:akesler@clemson.edu).



## ACREC/FPRF Agreement Timeline



Current point in research



At the Spring 2007 ACREC Research Committee and Governing Board meetings, the committee reviewed 11 research project proposals submitted in response to the spring request for proposals. Nine research projects were chosen for funding effective July 1, 2007. The projects selected are as follows:

*Biodiesel Synthesis from Animal Fats Using Solid Catalysts: High Temperature Reaction* by Dr. James G. Goodwin, Jr.

*Biodegradable Polymer Blends and Composites from Proteins Produced by Animal Co-Product Industry* by Dr. Igor Luzinov

*Separation and Evaluation of Supramammary Lymph Node Proteins* by Dr. Thomas R. Scott

*Environmental, Economic, and Energetic Costs and Benefits of Biodiesel and Glycerin Based Chemicals Derived from Rendered Animal Fats* by Dr. David Bruce

*Improving the Nutritional Value of Tallow as a Feed Ingredient for Dairy Cattle* by Dr. Thomas Jenkins

*Extrusion and Molding of Animal Co-product-based Proteins for Geosturctural Applications* by Dr. Amod A. Ogale

*DAF Sludge: Exploratory Study of Potential Value-Added Uses* by Dr. Annel K. Greene & John Harden

*Antimicrobial Properties of Bovine Mammary Gland Extracts* by Dr. Paul L. Dawson

*Developing Novel Bioactive MBM Products for Potential Aquaculture and Pet Food Market* by Dr. Feng Chen

Project progress reports from the first year projects are due at the end of September. In upcoming issues of the ACREC News, we will bring you project updates on those projects.

## Events

ACREC Research Committee Meeting  
Tuesday, September 25, 2007  
8:30 am – 11:30 am  
ACREC Conference Room

Room D-236 Poole Agricultural Center  
Clemson University



ACREC Governing Board Meeting  
Tuesday, September 25, 2007  
1:15 pm – 5:00 pm  
ACREC Conference Room

Room D-236 Poole Agricultural Center  
Clemson University



Animal Co-Products  
Research & Education Center  
CLEMSON UNIVERSITY

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864-565-1757  
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[acrec-l@clemson.edu](mailto:acrec-l@clemson.edu)

### ACREC Research Committee - Fall 2007

Dr. Annel K. Greene, Chair  
Mr. David Kirstein, Vice-Chair  
Dr. Sergio Nates, Secretary  
Mr. Gerald "JJ" Smith  
Dr. James G. Goodwin, Jr.  
Mr. Doug Smith

### ACREC Governing Board – Fall 2007

Dr. John W. Kelly, Chair  
Dr. Sergio Nates, Vice-Chair  
Dr. Doris Helms, Treasurer  
Dr. Alan R. Sams  
Mr. Kevin Kuhni  
Mr. Gerald "JJ" Smith  
Mr. John Dupps  
Dr. James G. Goodwin, Jr.  
Dr. Annel K. Greene

First try at making a golf tee from blood! Dr. Igor Luzinov and his team have been successful in creating new biodegradable plastics from animal co-products. Now the team is working to improve structural properties of the plastics as well as demonstrate potential uses. The prototype shown below is a preliminary version of a golf tee. According to Dr. Luzinov, his team is working "to make them more mechanically robust." Other potential uses for the plastics could include flower pots, mulch holding nails, and any application where a biodegradable plastic is desired. Imagine a golf tee that, if lost or discarded, will degrade into beneficial fertilizer!

