

May 9 - June 1, 1984

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1-5-30-84

LUBBOCK--Texas Tech University swine research, like the industry, has gone practically unnoticed, but the university's researchers have quietly been making inroads in improving pork use and production.

The university's research and the status of the swine industry will be discussed June 21 at the 32nd Annual Swine Short Course at the Lubbock Memorial Civic Center.

Animal science Professor Leland F. Tribble said Texas Tech researchers in the past year have been involved in six projects related to improving production, product quality or efficient use of feed. Tribble is course coordinator.

One project, he said, involved adding fat supplements to the diet of sows at different energy levels during lactation and after weaning. The animals were given four treatments which did not influence weight loss during lactation but did on fat loss on the animals' back.

However at the very high and very low energy level extremes, the animals were not affected by fat supplements and took the longest number of days to rebreed.

In a project using a mold inhibitor in the diets of weaned pigs, the pigs ate 4.8 percent more feed. The mold inhibitor also made the feed more palatable and caused no diarrhea in the pigs, Tribble said.

He noted that mold is always around and is found in sorghum and corn if warm, moist conditions exist. The inhibitor made up only .05 percent of the feed in the pigs' diet.

Another program involved feeding barrows and gilts varying levels of protein.

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Tribble said barrows have lower protein requirements than gilts. No advantage was found in feeding gilts higher levels of protein, but some advantage was seen in giving barrows lower amounts at a younger age and lower weight.

In the area of product quality and useability, the researchers studied the use of anti-oxidants on hot- and cold-processed pork loin chops. He said the meat sometimes is not as tender in the hot process. Hot-processed pork loin chops were improved by infusing the chops with salt and phosphates, he said.

Also, the infusion of salt and phosphate and the application of the hot process resulted in less total storage and cooking loss than with the hot process alone, he said.

In a study of palatability and the use of injected yeast on precooking, the researchers used potassium chloride as a substitute for salt and used yeast to mask the off-flavor created by the potassium chloride. A 4 percent addition of yeast created no yeasty taste, Tribble said, but it did mask the off-flavor.

Precooked chops scored lower in flavor than those which were not precooked, he said, but a taste panel found both to be acceptably palatable.

A study of lipid (fat) content in pork muscle tissue found the content increased early in the animal's life, dropped for a time in the post-weaning stage, and increased again as the pig got older. He said the fat was more unsaturated at 180 days of maturity than in the animal's younger days.

About 100 persons are expected to attend the short course. Many of the faculty in Texas Tech's College of Agricultural Sciences will participate. For details, contact Tribble at (806) 742-2826.

The course is sponsored by Texas Tech, the Texas Pork Producers Association and the Texas Pork Producers Board.

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS/P.O. BOX 4650/TEXAS TECH UNIVERSITY/LUBBOCK, TEXAS 79409/(806) 742-2136

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2-5-31-84

LUBBOCK--The acting commissioner of the U.S. Bureau of Reclamation will be a featured speaker at the Ogallala Symposium II Tuesday-Wednesday (June 5-6) in Lubbock Memorial Civic Center.

Robert A. Olson, bureau acting commissioner since December, will speak at 6:30 p.m. Tuesday (June 5) in the South Plains Conference Center of the Holiday Inn-Civic Center.

The symposium will bring researchers from throughout the nation up to date on scientific advances in groundwater and Ogallala Aquifer research since 1970 when the first Ogallala Symposium was conducted at Texas Tech University. The Ogallala is a vast underground aquifer stretching from South Dakota to Texas.

Featured speakers also will include Dr. Samuel E. Curl, dean of the Texas Tech University College of Agricultural Sciences, and College Station humorist and veterinarian Raymond Cook. Cook will speak Tuesday and Curl Wednesday at noon luncheons in the civic center.

More than 50 scientists, economists and water professionals will present technical papers on diverse topics related to the Ogallala. Sessions at the symposium will cover: U.S. Geological Survey (USGS) High Plains Study; economics and irrigation; geology; hydrogeology; recharge of the Ogallala; aquifer interaction; legal aspects; and secondary recovery of water.

Representatives of the USGS; Texas Department of Water Resources; U.S. Department of Interior; New Mexico Bureau of Mines and Mineral Resources; universities in Texas, Oklahoma, New Mexico and Nebraska; and private engineering and consulting firms also will speak.

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Before being named acting commissioner, Olson was assistant commissioner-planning and operations. He supervised the bureau's water operations, power resource management and planning activities.

Previously, he had worked as Boulder City, Nev., area manager, Western Area Power Administration (WAPA), directing the agency's power activities in the Pacific Southwest. He has held several other positions in power administration since first joining the bureau as an electrical engineer in 1963.

Curl has been agricultural sciences dean since 1979 at Texas Tech where he has held teaching and administrative positions since 1961, except for a three-year period when he was president of Phillips University.

Dr. Cook is a veterinarian with the Texas A&M System. For more than a decade, he has worked in his spare time as a humorist and down-home philosopher.

The symposium is open to the public, though many papers will be technical. Registration for the entire conference costs \$75. Participants may also take one of two post-symposium field trips -- agricultural water conservation tour or geology tour -- on Thursday for \$10.

For information or to register, contact the Water Resources Center (WRC), Texas Tech University, Lubbock, Texas 79409, (806) 742-3579, or the High Plains Underground Water Conservation District No. 1, 2930 Avenue Q, Lubbock, Texas 79405, (806) 762-0181.

The symposium is jointly sponsored by Texas Tech through the WRC and International Center for Arid and Semi-Arid Land Studies, by the High Plains Underground Water Conservation District No. 1, the Panhandle Underground Water Conservation District, Oklahoma State University's Division of Agriculture, the USGS and several other cooperating agencies and universities.

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3-6-1-84

LUBBOCK--Six undergraduate students and four graduate students in the Area of Finance have received scholarships through the Texas Tech University Institute for Banking and Financial Studies.

Area Coordinator Charles Moyer said the institute's finance scholarship committee awarded the scholarships.

Undergraduate recipients were:

*Junior Susan L. Sprinkle, who received a \$500 scholarship for Fall 1984 and Spring 1985 from Texas American Bancshares of Fort Worth. She is the daughter of Mr. and Mrs. James Sprinkle, 3196 Westcliff Road W., Fort Worth.

*Junior Terry L. Follis, who received a \$500 scholarship for the fall and spring semesters from InterFirst Bank of Dallas. He is the son of Elaine Gillaspy, 11311 Whisper Glen, San Antonio.

*Senior Angelia M. Reid, who received a \$500 scholarship for Fall 1984 from RepublicBank of Dallas. She is the daughter of Mr. and Mrs. Johnny Reid, Route 1, O'Brien.

*Junior Brent C. McCarty, who received a \$500 scholarship for the fall and spring from First National Bank of Amarillo. He is the son of Mr. and Mrs. Robert McCarty, 2801 Oak Mountain, San Angelo.

*Senior Tom Lauer, who received a \$500 scholarship for Fall 1984 from Lubbock Bankers Association. He is the son of Mr. and Mrs. Richard Lauer, 2506 60th St., Lubbock.

*Junior Karen Komatz, who received a \$500 scholarship for Fall 1984 from Lubbock Bankers Association. She is the daughter of Mr. and Mrs. Ronald P. Komatz, 6411 Meadowcrest, Roanoke.

The Lubbock Bankers Association also sponsored \$200 scholarships for graduate students Chenchuramaiah T. Bathala of India for the first summer session 1984; Jeffrey S. Partenheimer of 2618 Patna St., Katy, for Fall 1984; Soo Yul Lee of Korea for the first summer term; and Emory Hoover Jr. of 5301 51st St., Lubbock, for Fall 1984.