



BUSINESS NEWS...

Upjohn Completes \$7 Million Research Facility

KALAMAZOO, Mich. — The Upjohn Company has completed construction of a \$7 million Food Animal Intensive Research Facility located on the company's Agricultural Research Farm near Kalamazoo, Mich.

Completion of the Food Animal Intensive Research Facility allows Upjohn to conduct research in microbiology and physiology of the gastrointestinal tract, and reproduction and growth physiology of food animals, according to John R. Welsch, D.V.M., Ph.D., vice president, agricultural research. He says these research activities could lead to more efficient animal performance and result in large scale, practical applications by producers.

According to Jane A. Z. Leedle, Ph.D., microbiology and nutrition research scientist and a committee member involved in planning and designing the new facility, the Food Animal Intensive Research Facility will also be used to develop new animal health research discoveries through the manipulation of digestive and growth processes in normal, clinically healthy food animals.

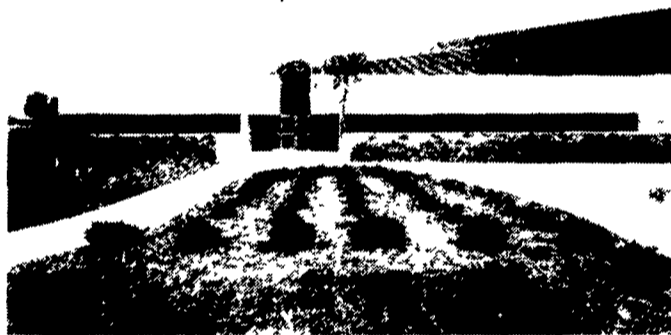
"Although The Upjohn Company is committed to both disease prevention and performance enhancement, this new facility is specially designed to support discovery research to improve performance in clinically healthy animals. Today's new research challenge involves discovering a means of improving performance by stimulating the host animal to produce more efficiently," says Leedle.

Research efforts to achieve such results involve working to enhance growth by understanding the biology of animal digestion and muscle accretion. The primary

area of focus for the initial research will be bovine animals, explains Leedle, adding that concepts investigated in the bovine species are applicable to all food animals.

Seven research scientists and up to 10 associates will routinely use the building to conduct experiments. In addition, the facility is designed to house several visiting scientists (within the Upjohn research network).

"Upjohn's commitment to gastrointestinal tract physiology and microbiology research will make the company a world leader in these disciplines," Leedle says. "Such research discoveries should offer Upjohn the opportunity to develop additional products that producers will find beneficial in increasing the efficiency of their livestock."



Upjohn's newest addition to the company's agricultural research complex is the Food Animal Intensive Research facility. This building expands the company's capabilities into new areas of food animal research including biotechnology.

Ford Tractor Caravan Stops In Hershey

HERSHEY — The Ford Tractor Power Caravan stopped in Hershey Sept. 10, giving area farmers a look at the newest farm equipment Ford has to offer.

The Caravan has been on the road in North America since April, making about 45 stops on its trek, show coordinator Jim Chester said.

The main purpose of the show, he noted, is to let people know Ford is positive about agriculture despite the present economy and to show them Ford's newest tractors.

"We want farmers to see what we have in the line and to keep them abreast in the field," he said.

Response to the road show has been good, Ford tractor specialist Neil Payne said "Farmers are very interested. They're amazed at the effort Ford has done to put this on."

Wednesday's show in Hershey was sponsored by Keller Brothers Tractor Co., Lebanon; Charles Snyder, Inc., Tamaqua; and Lancaster Ford Tractor, Inc., Lancaster.

Farmers attending were treated to free lunch and an informative show. Members of the Ford Tractor World Demonstration Team from Europe demonstrated the equipment, showing the strength of the company's four-wheel drive tractors.

The team also demonstrated a rotating push-pull plow which



Members of the Ford Tractor World Demonstration Team show features of Ford's newest tractors.

allows a smaller horsepower tractor to handle a larger plow. This type of plow is now common in Europe, Payne said.

He attributed the popularity of this plow and of Ford's four-wheel drive tractors to the depressed farm economy. Farmers are looking to get more work from lower horsepower tractors, he explained.

In Europe farmers are opting for four-wheel drive more often than ever before, Payne noted. Of all tractors sold there, approximately 60 to 75 percent are four-wheel

drive models. In the United States, he said, the figure is about 40 percent.

Following the show, farmers were given the opportunity to drive the tractors and to ask Ford representatives questions about the equipment.

Dealer-sponsored door prizes were a Ford lawn tractor, a Ford portable heater, and a Ford battery charger. In another drawing, three farmers won the use of a new Ford tractor for 30 days or 25 hours, compliments of the sponsoring dealers.

Swine Product Controls Parasites

RAHWAY, NJ — The first product to control both internal and external parasites of swine has been cleared by the Food and Drug Administration for use in the U.S., according to MSD AGVET, a division of Merck & Co., Inc.

The product is Ivermectin 1% Injection for Swine, formulated as a sterile solution of ivermectin, which was developed by Merck Sharp & Dohme Research Laboratories. It will be marketed through select animal health retail outlets and through licensed veterinarians. MSD AGVET is initiating distribution and market introduction over the next few weeks.

Ivermectin is the only antiparasitic formulation to control with a single injection commonly occurring internal roundworms and lungworms, while also controlling external parasites such as sucking lice and mange mites. It provides effective control of the following parasites:

- *Ascaris suum* (large roundworm) adults and fourth-stage larvae.
- *Hyostromylus rubidus* (red stomach worm) adults and fourth-stage larvae.
- *Oesophagostomum* spp. (nodular worm) adults and fourth-stage larvae.
- *Strongyloides ransomi* (intestinal threadworm) adults.
- *Metastrongylus* spp. (lungworms) adults
- *Haematopinus suis* (lice)
- *Sarcoptes scabiei* var. *suis* (mange mites)

Prior to the availability of Ivermectin Injection, external parasite control for pigs was normally a labor intensive practice, particularly under confinement rearing conditions favorable to the proliferation of mange mites and lice. The usual method consisted of suppressing the signs of infestation by "washing" or spraying the animals with insecticide, a process that had to be repeated at intervals as signs of infestation reappeared. In breeding operations, it was necessary to spray sows a number of days before they entered the farrowing house in order to minimize chemical toxicity hazards to their piglets. Before farrowing, pregnant sows should still be scrubbed down thoroughly, especially around the teats, and should receive treatment for both internal and external parasites.

MSD AGVET has developed a program called the Parasite Management Plan for swine operations: Administer Ivermectin Injection to sows and gilts 7-14 days before farrowing; to gilts, 7-14 days prior to breeding; to boars, as frequently as needed, depending upon exposure, but at least two times a year.

The plan is flexible, so that producers can treat when they are handling or moving pigs for other purposes, as with routine vaccination programs, at weaning, or when moving to growing or finishing pens.

In addition, all pigs should be treated before they are placed in clean quarters. Pigs exposed to soil may need retreatment if reinfection occurs. For effective mange control, care must be taken to prevent reinfestation from exposure to untreated animals or contaminated facilities.

Safety studies with Ivermectin Injection have shown a wide margin of safety at recommended dosage levels for all swine, including pregnant sows and gilts during any stage of pregnancy as well as breeding boars.

Ivermectin Injection is a clear, colorless, free-flowing sterile solution of one percent ivermectin in glycerol formal and propylene glycol. Extensive testing has shown this to be the optimal formulation for swine, similar in viscosity to water, with slightly noticeable oily characteristics. The recommended dose is 1.0 ml per 75 lb. (1.0 ml per 33 kg) of body weight (to achieve the level of 300 mcg active ingredient/kg). The recommended route of administration is by subcutaneous injection in the neck. Swine must not be treated within 18 days of slaughter for human consumption. The solution may be given with any standard automatic or single-dose equipment, and aseptic technique should be used.

Ivermectin is available in 50 ml, 200 ml and 500 ml packs of low density polyethylene, which offer protection against breakage and are suitable for almost all sizes of production units.

Projections from stability studies show that Ivermectin Injection will be stable for at least four years when stored under normal conditions. The bottle should be stored in the carton to protect it from light.

LVNB Introduces New Branch



Lebanon Valley National Bank personnel took time out from financial affairs on Sept. 10 to host the LVNB Hog Roast at Green Dragon Market in Ephrata. Pictured ladling the ice cream are (from left) maintenance manager Bob Angelo, vice president Mike Firestone and business development officer Bill Hoke. The occasion was the announcement of the bank's new branch at the Lincoln Mall, to be completed by May 1, 1987. In the meantime, LVNB will be servicing ag clients as well as other customers from temporary facilities at the Lincoln Mall beginning Sept. 22. LVNB currently serves Lancaster, Lebanon, Berks, Schuylkill and Dauphin Counties, with about \$38 million in agricultural loans.