

A&M Completes Highway Research

Improvement of asphalts to effect greater serviceability on the state's highways has been the sub-ject of a research project recently completed by the Texas Transportation Institute at Texas A&M in cooperation with the Texas Highway Department.

Resolution Adopted For A&M's Help In Ag Program

The Texas Board of Corrections has approved a resolution in appreciation of the Texas A&M System's long-time co-operation with the Texas Department of Corrections agricultural program.

The announcement was made by President Earl Rudder following his receipt of a letter and a copy of the resolution from O. B. Ellis, director of the Department of Corrections.

Personnel of the A&M College System have provided invaluable assistance to the Department of Corrections in making numerous improvements in prison farm operations, the resolution said. Whenever agricultural problems have confronted the Department of Corrections, A&M has made its personnel and facilities readily available.

The resolution was signed by Ellis; H. H. Coffield, chairman of the Texas Board of Corrections; Walter L. Pfleger, chairman of the Agriculture Committee of the Board; and B. W. Frierson, assistant director in charge of agriculture for the Department of Corrections.

were found to take place in the road material. Methods used in the laboratory to predict these alterations successfully distinguished the capacities of asphalt to change.

The principal investigators on the project, Rudolf A. Jimenez, assistant research engineer, and Bob M. Galloway, research engineer, of Texas Transportation Institute found also that construction procedures are of "paramount importance in their effects on performance of asphaltic pavements."

In their report, the engineers state further that "it has been common knowledge for many years that design and construction powerfully influence the success of a job regardless of material quality. Material quality is none the less important. The best job will, of course, result when proper attention is directed toward good design, adequate inspection by a qualified inspector, and good construction techniques."

Samples of asphalt were taken at 11 sites in Texas at the time of road construction in 1954. Samples were taken at yearly intervals thereafter for visual and laboratory comparison with the original, or unexposed, asphalt. Analysis isolated those asphaltic compounds which failed to withstand conditions of temperature, rainfall, and service to which they are normally subjected.

Recommendations offered by the Texas Transportation Institute research team include specific suggestions in the areas of testing asphalts and of construction. Among the proposed tests are a rotary-type viscometer for determining consistency and an aging or artificial weathering test for gauging the aging susceptibilities of asphalts. In the area of construction, recommendations include improving the surface-to-base bond and using double surface treatments.

CADET SLOUCH

by Jim Earle



"... One thing for sure—there won't be any sleeping in class when girls enroll in your course."

Veterinarians Should Do More Preventive Treatment of Stock

Veterinarians should begin shifting emphasis from "trouble shooting" treatment of livestock to preventive medicine, Dr. W. A. Hagan of the National Animal Disease Laboratory at Ames, Iowa, said this week.

The scientist, a speaker at the 14th annual Texas Conference for Veterinarians held May 31-June 2 at A&M, said such an emphasis shift would be especially important in future years, when there may not be a surplus of food in the United States as there is today.

Dr. Hagan explained that there are about 2.75 billion persons in the world today. That figure is expected to make big jumps in the next decade and probably will double 50 years from now. Food shortage is almost a certainty unless the challenge is met.

"It is the duty of each veterinarian to practice preventive medicine whenever possible to cut livestock losses," the speaker said. "This means more research from private sources, schools of veterinary medicine and agricultural experiment stations. Disease preventive methods should be preached to farmers and ranchers."

Dr. R. D. Turk, head of the A&M Department of Veterinary Parasitology and general program chairman, said that about 325 animal doctors attended the session. That was approximately 30 per cent of the veterinarians in Texas.

The session is held each year to bring veterinarians up on the latest developments in their profession. It is sponsored by the A&M School of Veterinary Medicine.

Dr. R. W. Moore, assistant professor of veterinary medicine at A&M, outlined progress of the specific pathogen-free (SPF) swine program in Nebraska, Iowa, and Texas.

SPF, he emphasized, is a disease control program and does not involve a completely disease-free animal except for certain pathogens.

The program is generating much

interest among farmers in Texas and has progressed to the breeding age stage in swine. So far, there are two licensed laboratories in the state—one at Cameron and the other at Bryan, he said.

To work with an SPF program, Dr. Moore said a veterinarian must be licensed, and the license is obtained at the University of Minnesota. The veterinarian must work closely with a farmer engaged in the program and must examine his herds periodically.

Dr. J. E. Mosier, of Kansas State University, described his experiences in treating disease of young pups. These included blood poisoning and navel infections. Some pups, he said, are lost when incompatible blood is used in transfusions.

Staphylococcus are the most troublesome skin infections. Congenital problems involve strictures in the esophagus, causing vomiting; breathing ailments from weak nose cartilages, and cyst swellings in the neck.

Cultured buttermilk, Dr. Mosier said, is being used to control chronic diarrhea, and virulent virus has been found effective in controlling hard pad disease.

Dr. O. R. Adams of Colorado State University discussed the treatment of crooked legs in foals, such as knock knees and buck knee, with plaster casts and braces. Navicular disease can be diagnosed by noting attitude of gait and using a hoof tester over the center third of the hoof frog.

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Wild Animals More Sensible About Young Than People

By The Associated Press
ROCKPORT, Tex. — Naturalist say wild animals display more sense in rearing their young than do many humans, who shudder at the thought of applying the strap, or hair brush.

Baby animals and birds have ingrained the knowledge that only through discipline can they survive.

A wild turkey specialist explained.

"When I see a wild turkey family, I am impressed by the unquestioning, absolute obedience the little ones accord their mother instantly. Waterfowl, nesting in vast rookeries protected by water where few enemies may come, are loud, raucous, quarrelsome and thorough exhibitionists, like many of today's children."

Little turkeys, taught by instinct and disciplined by death, don't hesitate a moment in obeying their mother's commands.

"The hen steals furtively along, followed by her brood, each tiny poult alert. Let something alarm the mother and every baby vanishes at her startled yelp, concealed by some bit of vegetation; burrowing under an oak leaf or simply freezing where they are."

Their colors blend so perfectly with their surroundings that, as long as they remain motionless, human eyes and those of most animals cannot separate them from their background.

"Among wild youngsters it is a long inheritance. A little wild thing is trained by its mother; in time it trains its own young. Wild creatures obey instantly and without argument to save themselves from certain death."

Wild mothers know it is no favor to their children to spoil them. Bad little bears get bashed when they sin. Fawns are taught from birth to hate certain scents and to pass up certain kinds of greenery.

Quail are great on discipline. Each evening the covey huddles together for warmth. On cold mornings they may stay on the roost until the sun warms things up. Then they move, a wary, joy-

ous band, to their feeding ground where they may stay until 10 or 11.

From there they go to drink, and then they take their naps in some sheltered sunny clump or briar. They lie down, and fluff their feathers and relax, making little beds in the soft, warm earth, dust themselves thoroughly, drowse, blink, and loaf for two or three hours, almost without moving.

In the middle of the afternoon the birds rouse themselves again and troop back to their feeding ground, where they stay until almost dark.

Then they group themselves near the spot where they roosted the night before in a compact body, all their heads out, so that through the night each acts as a sentry.

"When those were tiny youngsters," a biologist said, "their mother taught them the best routine of life, and they had the sense to obey. If they didn't, they wouldn't have been here long."

Nor are they ever too young to mind mama. Even quail so newly hatched that they still have bits of shell clinging to their backs will run madly to obey the sum-

mons of the old bird when it calls.

"They never question, never argue. They do what they're told, and do it in a hurry."

EE Department To Sponsor Short Course in July

Short courses on Theory and Application of Symmetrical Components, will be held at Texas A&M, July 31-August 1-4 and 14-18. The courses are sponsored by the College's Department of Electrical Engineering.

Purpose of this course is to provide practicing engineers an opportunity to become acquainted with the theory of symmetrical components and their applications to the solution of problems involving unbalanced conditions on transmission lines and electrical machines. Lewis M. Haupt Jr., announces Haupt is professor of electrical engineering, A&M and superintendent of the A-C Network Calculations A&M Research Foundation.

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