

Tobacco compared to milk

ROSEMONT, Ill. - Scientists at the university of Maryland are extracting high-grade protein from tobacco leaves, according to a news dispatch from the Washington Post that circulated to other papers across the nation on Oct. 12. "It's as good for you as milk," Dr. Martin Schwartz, the university's Dean of Science, was quoted as saying. Called Fraction-1-Protein, the tiny, white protein crystals from the tobacco are tasteless and odorless, "stable, easy to store and (are) so-constructed that (they) can be manufactured in a gel-like form that looks much like soybean curd, a staple food in many countries.

Fraction-1-Protein, as it occurs in raw tobacco, would be hazardous if smoked. "When you burn it, it gives off products like cyanide and nitrogen that are not good for you," said Dr. T.C. Tso of USDA's Beltsville Research Center in the article. But as a product to eat, Dr. Tso said: "Its nutritional value is comparable to milk and surpasses that of soybeans."

The protein exists in all green plants but can only be extracted easily from tobacco. However, normal methods of tobacco curing destroy the protein. Thus, Dr. Tso has been working on a process known as "Homogenized Leaf Curing." In this process the tobacco leaf is chopped up and suspended in a liquid solution rather than being hung up to dry to cure. Removal of the protein crystals then is similar to the way sugar is crystallized

from sugar cane and sugar beets.

Since the remaining material can be reconstituted for smoking or

chewing tobacco, one wonders if this development may drastically change the economics of the tobacco industry, and have an effect on the food industry as well.

Safer spraying taught

UNIVERSITY PARK, Pa. - Over six thousand Pennsylvanians have been certified to use restricted-use pesticides through a correspondence course developed by Penn State's College of Agriculture. It is estimated by Dr. Fred C. Snyder, director of correspondence courses at the University, that over 25,000 pesticide applicators in the state remain to be certified. The certification deadline is October 1977.

The course, Pest Management and Environmental Quality, is designed to assist individuals in preparing for certification as private or commercial applicators of pesticides. It provides basic information on management of common insects or mites, weed control and herbicides, plant disease control, pesticide labeling, safety, etc.

Examinations for Pennsylvanians are administered through the State Department of Agriculture who estimate that only .031 per cent of those taking the exam have failed, attesting to the thoroughness of information presented in the course and specific category from county Extension agents.

Commercial applicators must also be certified. Information for certification study includes the

correspondence course and category packets, covering such areas as fruit growing; plant, animal and aquatic pest control; forest pest control; public health pests; seed treatment; etc.

To order a copy of the course, write Pest Management, Box 5000, University Park, Pa. 16802. Make your check for \$6.00 payable to Penn State. An application blank for education material packets is also available by writing to the same address.

Lamb Club meets

YORK, Pa. - The York County 4-H Lamb Club held their annual Halloween Party earlier this month at the home of Laurie and Lisa Dobrosky. That evening the election of club officers was held.

The new officers are as follows: Chris Waltersdorff, president; Charla Janney, vice-president; Lisa Dobrosky, secretary; Deb Lau, assistant secretary; Laurie Dobrosky, treasurer; Judy Waltersdorff, news

Livestock association dinner set for middle of Expo event

HARRISBURG - The Pennsylvania Livestock Association will hold its annual banquet and meeting on Tuesday, Nov. 9, at the Host Inn, here. It is billed as one of the highlights of the Keystone International Livestock Exposition which gets underway here next Saturday at the Farm Show Complex, and lasts through the following Friday.

Featured at the livestock banquet will be an awards program and various presentations by agribusiness officials and outstanding farm youths.

This year's featured speaker is John Chohlis, manager of cattle chows marketing, sales promotion and public relations, Ralston Purina Co., St. Louis, Missouri. He has a masters in animal husbandry, has managed a feedlot, been a range conservationist for the U. S. Soil Conservation Service, an editor for a livestock journal, a manager for a ranching investment service, manager of a Cattleman's Exposition and a student of the livestock industry in Hawaii, New Zealand, Australia, South America, Europe and Africa - before he affiliated with Ralston Purina.

reporter; Nancy Eisenhart, assistant news reporter; Linda Waltersdorff, assistant treasurer.

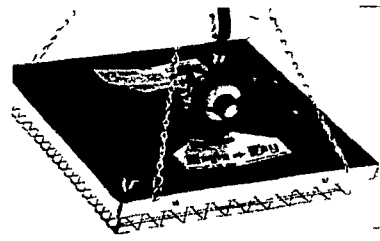
After the meeting, a hayride and hotdog roast was held.

His presentation will be "The Growing Power of American Agriculture" - a dynamic investigation of protein in the diet and the importance of meat.

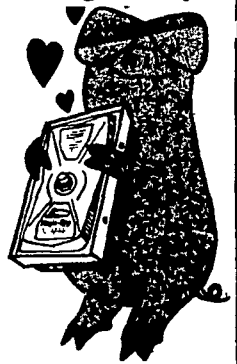
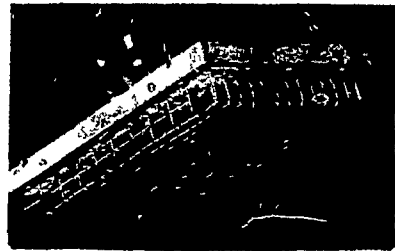
Other features of the program will be recognition for the outstanding FFA and 4-H youths of Pennsylvania as well as the "Livestock Man of the Year".

Magic-Ray

FLAMELESS CATALYTIC HEATERS



"Your Pigs Will Love Magic-Ray"

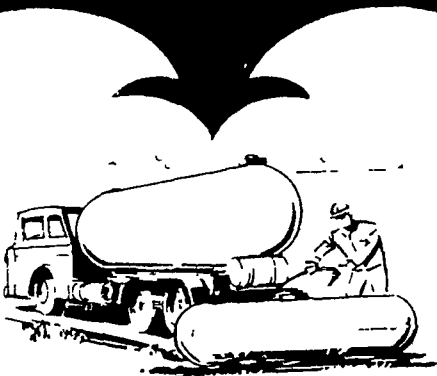


AN L.P. GAS BROODER THAT DOES A BETTER JOB ON BABY PIGS & CHICKS
AARON S. GROFF & SON

FARM & DAIRY STORE

RD3, Ephrata, PA 17522 (Hinkletown) Phone (717) 354-4631
Store Hours 7 A.M. to 9 P.M.
Closed Tues., Wed. & Sat. at 5:30 P.M.

ENJOY THE ECONOMY & CONVENIENCE OF
LP GAS



IT'S PORTABLE...

Wherever you need heat you'll find LP gas ready to serve you. It's ideal for heating farm buildings - brooding water heating incinerators as well as for regular home use. You'll find LP gas is both economical and practical. Let us show you the advantages there's no obligation whatsoever.

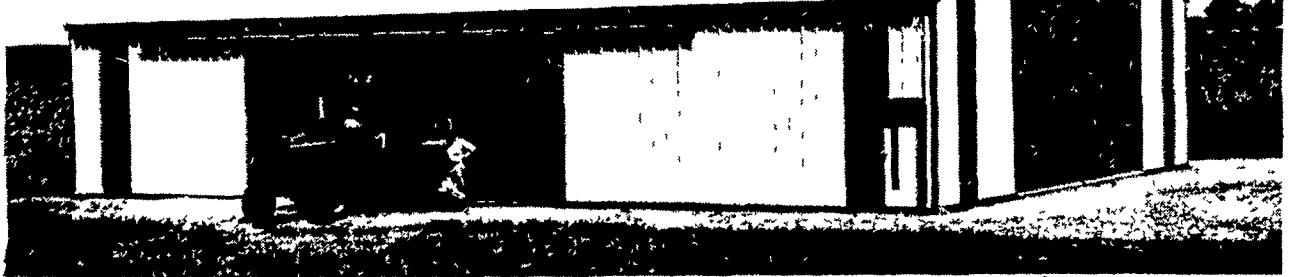
CALL (717) 665-3588

MYER'S METERED GAS SERVICE, INC.

P.O. BOX 71
MANHEIM, PA 17545



WINTER DISCOUNTS



WINTER DISCOUNTS NOW IN EFFECT

IF YOU HAVE BEEN CONSIDERING A NEW BUILDING, NOW IS THE TIME TO BUY. MORTON BUILDINGS OFFER YOU WINTER DISCOUNTS ON . . .

MACHINE SHEDS CATTLE BARNs HORSE BARNs
HOG CONFINEMENT GARAGES AND SHOPS

ORDER A MORTON BUILDING NOW FOR SPRING ERECTION AND SAVE. PRICES WILL NEVER BE LOWER THAN NOW.

TO FIND OUT . . . WRITE OR CALL TODAY!

MORTON BUILDINGS

RD4 Box 34A Gettysburg, Pa. 17325
Ph: 717-334-2168

Box 126 Phillipsburg, N.J. 08865
Ph: 201-454-7900

Send information on MORTON Square Post Buildings.
 Have your salesman phone me for an appointment

NAME _____

ADDRESS _____

Telephone No. _____