# Poultry Industry Building - Related Problems and Solutions

(Continued from Page 19)

happy with the arrangement All concepts of manure handling

tractor and manure loader. In one case, this manure is allowed to accumulate for six years

The problem with this system is that it does not solve the fly problem or the rodent problem. and there is a considerable odor problem when the pit is dis turbed

scrapers work reasonably well, cables last only a relatively short odor problems. period of economic time due to Lagoons as a means of manure tical. the droppings Breakdowns, of will be mentioned only in pass- taking care of poultry manure, as a substitute for soybean meal ment—some even with air-conthe corrosive action of acid in disposal in the poultry industry

and if no provision is made Ar method of manure disposal, build, install and operate.

spread immediately on the land, their neighbors

handling manure on commercial However, again, when this high. layer farms This is a dropping manure is disturbed for removal problem

course, require replacement of ing, as this system has been has been tried in Pennsylvania, the cable at considerable cost, thed in Pennsylvania and for however, there are many probto say nothing of the accumula- one reason or another has been lems involved with this process tion of the manure during the abandoned as a system for In fact, the incineration equip-vania State University has come This constant agitation of the might mention, however, that lution problems, may be as ex- ing an answer to the poultry housing, I would like to pose

of the building, it must be areas, they are not too close to have been investigated through- high-speed fans below sloping

attitude of it being a valuable manure under the cages to drying has been investigated at content down to 25 percent to type device to expose wet surby-product rather than a waste "cone up" and dry under the Cornell University However, reduce the odors Deep pits are employed in cages In other states, this sys-Pennsylvania as a system of tem is a little more popular. ing manure have run relatively

There has been some investi- success. pit from 2½ to 6 or 7 feet deep, from the house and for spread- gation of a system for removing located beneath the cages of ing on the land, the odors diswater from poultry manure by birds. The pit is cleaned out rather pronounced, to put it electro-osmosis. Such a system periodically or annually with a mildly, and we have a neighbor involves placing electrodes with fractor and manure loader. In positive and negative poles in handling poultry waste is used then passed through the wet centration of fly eggs and the cent moisture. This product rarely in Pennsylvania. Where manure in such a way that crete spillways are under the filtered off in the process I do neled downward through the a fertilizer. water Then the droppings and costs of this process, however I and aerating the mass, so the tion that the poultry industry the water are moved to a hold-have found out that it takes flow and utilizing automatic ing tank. The holding tank about two weeks time to dry must be agitated before the poultry manure from 60 permaterial can be removed from cent moisture to a point of nonless steel cable However these the pit and this creates some conduction of electricity which

use of insects as a control of moisture from the house moisture content was reduced by must go in the future if they are 50 percent. After the larvae had tunneled through the manure, in such a manner that they can it was essentially deodorized and get along with their neighbors. would not support further fly egg or larvae development

Interestingly, the fly pupae Incineration, as a means of up and fed back to the chicks some form of controlled environ-

## The Penn State Effort

In my estimation, Pennsyl- publication. handling poultry manure I ment, along with its added pol- up with an ultimate in provid- have now in the way of poultry manure causes an odor problem, other states have utilized this pensive as drying equipment to manure problem. Workers here some trends in the 70's. The ac-Several other methods

storage of the manure at the end However, in these particular handling, the poultry manure have investigated the use of out the country In Canada, they wire floors and daily, mehave aerated the liquid manure chanically stirring the manure should be developed with the cage-layer houses allow the third of it being a valuable cage-layer houses allow the faces. This constantly keeps In other parts of the country, they have tried bacterial digesters with a limited amount of the surface of the manure broken up, and utilizes the fair speed to vaporize the moisture of the poultry manure. The ... ventilation system of the poultry A new experiment involves the house is utilized to remove the

> study, fresh poultry manure the process, and the resultant was seeded with a known con-product is approximately 30 per larvae. The larvae then tun-than 10 per cent and utilized as

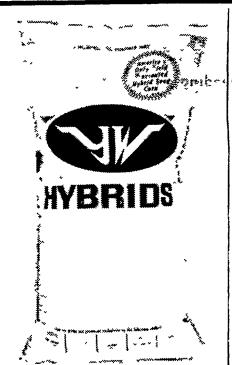
> > This appears to be the direcgoing to handle a poultry manure

### The Industry's Future

Practically all new poultry was harvested later and ground housing in three years will have ditioning by refrigeration. This is a prediction made by a recent

Rather than describe what we

(Cntinued on Page 23)



**Outstanding Seed** Quality This Year Our Fie'ds Were Not Hit By Bli-ht.

Here are several growers who use YW Hybrids. Maybe one of them is your neigh-

> JAMES GABLE YORK CO. SX 804 — 230 bu./A.

LESTER'W. TROXELL SCHUYLKILL CO. SX 804 — 200 bu./A.

CLETUS A. BALMER LANGASTER CO. SX 804 176 bu. A. 



# Here's What The Winners Say About GROWERS

Here's what the top winners in Grower Chemical Corporation's 5-Acre Corn Contest have ... to say about Growers Fertilizer

Solutions. If your yields haven't been as high as you would like maybe it's time to try the Growers Program. See for yourself, what this program can do for your corn yields. Call or write today.



**JAMES GABLE** R. D. 3. YORK, PA.

"I've been on the Grower's program for 4 years and have found it requires less work to apply and is immediately available to the plant Corrosion of my machine is never a pro lem, either As far as performance, I think my yields speak for themselves. 4 yr. user

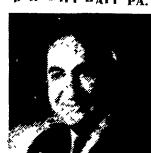
\$9.90/A. Fertilizer Cost 230 bu./A. Yield



HARULD MUUKE TITT WATT PA

"Contrary to popular opinion my soils and violds have steadily improved over the 5-year period I've been on the Grower's program The only way I would stop using Growers Fertilizer Solutions is if they would stop marketing

> 5 yr. user \$8.40/A. Fertilizer Cost 203.7 bu./A. Yield



LEGICK W. TROXELL R. D. 1, ANDREAS, PA.

RD 2, LITITZ, PA. 17543

"For my opinion, Growers complete analysis fortilizer solution is one of the best and quickest acting starter fertilizers on the market today In addition, I like the fact that it is nonpoisonous to livestock, does not create-nitrate poisoning and won't counteract my limestone."

> 8 yr. user \$9.20/A. Fertilizer Cost 200.0 bu./A. Yield

**GROWERS CHEMICAL CORPORATION** MILAN, QHIO 44846

Some area dealerships available. Your distributor for these products is:

Now you can get LET THEM STEAL THEIR OWN POISON

# Penn-Dutch

231 feet per pound (tensile strength 325 lbs.)

257 feet per pound (tensile strength 290 lbs.)

Treated against rot, mildew, insects and rodents

# TOP QUALITY AT **ECONOMY PRICES**

		State Lititz,		uting 13	Co.
_	_ '-,				

,	R.D. 2, Lititz, Pa. 17543
	I'm interested in becoming dealer for the above products.
	Name
7	Address
	State Zip
	Phone
	- (a 🐉

PHONE 717-626-8909