## Speakers See 'Recycled Nutrients' as Pollution Solution

the Wednesday afternoon session world show man's activities can quality or feed value of the final to 30 per cent. of the Pennsylvania Poultry Fed-lead to weather pattern changes, product This indicates a need eration meeting

slide preesntation of how only Predicting that within five to lent, he said.

be necessary in the future to off- figure still higher than corn levels of pollution

happen to the U.S. if the environ-plained.

Dr. Charles L Hosler, dean of State poultry science depart-

changes in rainfall in the US, in its present form on the land,"

conditions, including drought try waste has about 33 per cent firm's system will do the job He was particularly critical of crude protein which breaks

ure being caused by growing best gains are achieved from a ise, but a gutter is needed. combination of one-half urea and He indicated that pre-drying, Pointing to other countries one-half recycled nutrients, he such as the work being done at which once had highly developed said The process is called "re- Cloisterdale Farms at Ephrata, and wealthy civilizations, Dr cycled nutrients" because it de- 15 a help, since wetter manure Hosler said the same thing could scribes without offending, he ex- reduces the capacity of the dry-

was the center of attention at perience in other parts of the er the waste, the poorer the Cloisterdale's system reduces it the diver

lution levels in the atmosphere poultry and animal operations. they haven't been able to hold up sells it bagged for \$1.99 a huncost of moving it to the dryer, and they haven't been able to hold up sells it bagged for \$1.99 a huncost of finel used in the dryer. ran lead to disastrous weather Studies show that dried poul over time, but he indicated his died pounds, he said

state laws which ban study of down into about 12 per cent getting the manure to the dry-designed for it can be very eco-noon session with a wrap-up on weather He said this study may usable protein for poultry, a er He said an auger system is nomiacl, converting existing the importance of ecology and good for short hauls and con-houses can be quite expensive, economics to the poultry indusset some of the problems which Experiments so far show that veyor systems have shom prom- he indicated The cost primarily

er. While waste normally runs

The concept of waste recycling ment changes He said past ex- Study also shows that the old-about 75 per cent moisture, stems from moving the waste to

Dr. Howard Zindell, Michigan for a continuous recycling pro- to the 10 to 12 per cent level. will cost \$15 to \$35 a ton. The earth and mineral sciences, Penn ment, spoke on work in Michigan The Michigan research in- lower than 10 per cent, "if it is as much as corn, he indicated. State University, began the distribution and important protein source "this results in a new ingred-fertilizer, because drying it complied by the presentation of how and the protein source "this results in a new ingred-fertilizer, because drying it complied by the presentation of how and the protein source that the presentation of how and the protein source that the presentation of how and t John Bergdoll, Anderson Box won't sell well without some can't afford to be without a dryconditions could lead to serious a law against spreading manure Company, explained his firm's odors, he said He noted that er. A 40,000 bird operation will serious a law against spreading manure Company, explained his firm's odors, he said He noted that er. A 40,000 bird operation will serious a law against spreading manure Company, explained his firm's odors, he said He noted that er. experience with a new Colman people in many parts of the pay for a dryer in one year, he leading to drought and severe Dr Zindell said a feasible alter- Rotary Manure Dryer He said country prefer this type of orcrop reductions. He indicated native now appears to be to dry the problem with early manure game fertilizer to chemical fertilizer to che that manmade and growing pol- the manure and recycle it in drying systems has been that tilizer. One faimer in Michigan of moving it to the drying systems has been that

Another problem, he said, is with a new operation specifically agriculture, concluded the after-

He indicated that getting the Bergdoll recommended drying waste to a 10 per cent dry level He wained against drying it dry material is worth at least

pletely eliminate any odors. It which is in a position to recycle,

Richard Chumney, assistant to While drying the manuic the New Jersey secretary of

(Continued on Page 9)



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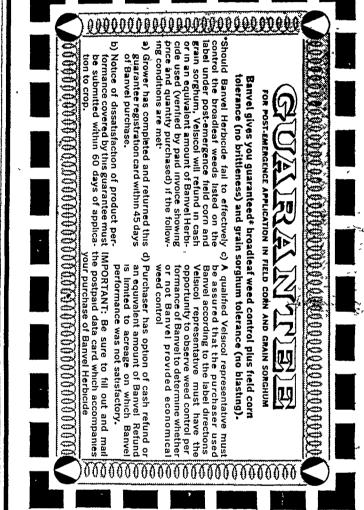


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