Thursday, January 13, 1983

THE CHOWAN HERALD

Farmers Need New Perspective, Says Ag Expert

North Carolina farmers, reel- forth some of their own ideas pause to reflect and to get a future. new perspective for the announced.

Raymond D. Meiggs of Tarboro, chairman of the 21st **Century Agriculture Planning** Committee of Eastern North Carolina Chamber of Commerce, says farming now stands at a crucial crossroads in the region and some sound planning is needed.

Meiggs heads a committee portions of its North Anna agencies in early 1983. of specialists that has been meeting since April to plan a Dominion. project to provide farmers with an opportunity to try to regain their equilibrium.

farming's future to be conin Raleigh all day on facilities. February 8, 1983.

living related to agriculture, will also be on hand.

"This will be an important conference" Meiggs said. While we will have some significant speakers like Gov. on the facilities and for its Jim Hunt, President Bill Fri- share of operating costs. day of UNC, and a top official of the Federal Land Bank, the approval of the approval . two other portions of the pro- of the Virginia State Corporagram promise some signifi- tion Commission, The West cant developments," he Virginia Public Service Comobserved. Meiggs said the mission, the U.S. Nuclear first of these will be when a panel of N.C. State Universi- (NRC), The Federal Energy ty professors reports on fin- Regulatory (FERC) and the dings of a special task force Rural Electrification Adthat has been at work to find ministration (REA). some new long range promise

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GREENVILLE - Eastern have an opportunity to bring representatives from the cil, the East Carolina Univer-

future, an agriculture leader with Meiggs have been the N.C. Agribusiness Coun-

Virginia Electric and regulatory agencies by from Vepco Power Company and Old mid-1983. The agreement, Dominion Cooperative on December 28, the Boards of Directors of signed a final agreement under which Vepco will sell nion, will be filled with all five

Nuclear Power Station to Old After almost eight years of about 20 per cent of Old Domidiscussions and negotiations, nion's power needs. The

officers of Vepco and Old cooperative will continue to It is hoped that at least 500 Dominion have signed a final purchase nearly all of its re-Eastern North Carolina agreement, which calls for maining power requirements farmers, the kind that actual- the cooperative to purchase ly till the soil, will be on hand 12.5 per cent of North Anna tee's work, a 21st Century Nuclear fuel and common Farming Conference to plan facilities at the power station, and a portion of spare parts, ducted at McKimmon Center inventory and other support

Based on a mid-1983 clos-It is also hoped that another ing, Vepco will receive ap-500 persons who make their proximately \$265 million, of which about \$208 million will be paid at closing. In addition, Old Dominion

will be responsible for 12.5 per cent of all future expenditures The agreement is subject to

Regulatory Commission

Vepco and Old Dominion for agriculture, and the se- anticipate that the agreement

ing from several stiff punches as to how to seek a new and Department of Agriculture, Institute, the Eastern to the midsection, need a more stable course for the the N.C. Department of Com- Chamber, merce, the Agriculture Ex-Serving on the committee tension Service at N.C. State, Commerce.

Governor's office, the N.C. sity Regional Development and the Washington Chamber of The idea for the conference

was spawned in the Agriculture Development Council of the Washington Chamber of Commerce. It

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asked the Eastern Chamber to take on the regional task.

Coop Buys Vepco Power Station

Old Dominion, a power Electric which has been approved by supply cooperative headquartered in Richmond, is both Vepco and Old Domiresponsible for obtaining power for its 15 member cooperatives.

The purchased capacity from North Anna will provide Dominion's executive vice president, said the agreement would benefit Virginia's cooperatives by helping to provide their future genera- will benefit from this tion requirements at lower transaction."

Vepco president William W. Berry, who signed the agreement on behalf of the com-

pany, said Vepco will use the Funds it receives from the Ernest M. Jordan, Old sale to meet future financing

> requirements. As a result, Berry said, "All of our customers and stockholders

for the results of the commit-Units 1 & 2, 12.5 per cent of the Science Making Progress With Genetics

by Susan Talanda In December, scientists Scandalios said.

from four U.S. universities announced they had succeed- transplant a gene which triged in transferring a genetic gers insulin production in trait of rats into mice.

After transplanting a regulatory gene (one which would be produced? When and develop specific traits. regulates rat growth) into fer- will the insulin be produced tilized mouse eggs, the and will it be produced in the growth trait of the rat was right place? passed on to some of the mice.

'With regard to plants, "This study is excellent," much noise has been made said Dr. John G. Scandalios, 1982 president of the Americam Genetic Associatilizer. But will that trait be tion. By manipulating expressed at the proper time, regulatory genes, scientists in the proper place?" Scanmay one day be able to pro- dalios said. "In order to duce crops and livestock with regulate growth and other ideal traits, such as faster traits, we have to understand growth, higher yields and how the cell's genetic activimore resistance to parasites ty is regulated." or adverse climates, he said. In his studies with corn,

Scandalios, who is head of Scandalios began with the the genetics department at basic questions: How does a North Carolina State Univer- plant cell know whether to sity, has recently discovered two new regulatory genes in cell? How does the simple corn

plant cell know when to The transfer of the rat become a more complex root growth hormone gene points cell? And what determines out a crucial issue in genetic the number of root cells engineering, he said. The produced? desirable growth trait of the After years of research, randin appear in some of the Scandalios and his associates

mice, but the scientists could have discovered temporal not predict or control the regulatory genes in corn. He growth rate of the mice. believes these genes dictate

"Putting a useful gene into the time certain products in an organism does not corn seed cells will change,

guarantee a useful change," causing the corn seed to sprout or bringing about other We may be able to changes in seed metabolism. Temporal regulatory genes also play a part in determining the number of cells that diabetics, but questions re-

main. How much insulin will undergo such changes Scandalios has pinpointed a second regulatory gene in

plants, which he tentatively refers to as "topogene." It is too new to have been christenabout transferring genes to ed with an official name, he make corn that needs no fer- said.

"Topogenes" (or processing genes) tell the protein products of other genes where to go in the corn cell. The location of these gene products in specific cell compartments determines whether the simple corn cell will function properly as a leaf cell, a root cell, a stem cell, etc.

Scandalios now is studying how regulatory genes give instructions, so scientists can become a leaf cell or a root control the expression of gene traits in the future.

His theory is that regulatory genes may be making "macro-molecules" which carry signals to other mes. These other genes. pognize the signals and respond, triggering changes in the cells.

But what if these precise cell changes are disrupted? What happens if the wrong signals are given or the right signals are misinterpreted? When cell changes are not properly regulated in humans or in animals, birth defects, cancer, abortion or any number of genetic disorders can result, Scandalios said. In plants, the result may be abnormal plant or seed growth, premature aging or poor physiology.



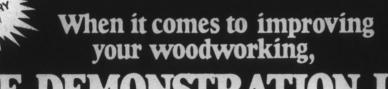
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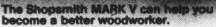
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If scientists can eliminate or correct these abnormalities at a genetic level, they will be dealing with abnormalities at their source. not just treating the symptons, Scandalios said.

Scandalios hopes to gain insight into abnormal plant growth by studying the temporal regulatory gene(CAR¹) in corn. The CAR1 gene programs the amount of catalase enzyme. (CAT²) produced by the CAT² structural gene at a specific time during development of the corn plant.

By mutating the structural genes and varying external signals such as light, temperature and hormones, his research team will try to disturb this process and discover how it works.

Since catalase enzymes are found in all forms of life, Scandalios' findings could have applications for human as well as plant and animal growth.

"From the development of hybrid corn to modern techniques for detecting diseases, genetics has affected human society more than any other science," he said. "We are progressing so rapidly, there's no telling what we may discover in the next five to 10 years."



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