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CALCULATORS

PHONOGRAPHS

Cotton residues may provide efficient source of energy

In addition to providing food and clothing for millions of people, Texas agricultural crops might be used to energy problems, say researchers at Texas A&M University.

For instance, cotton residues col-

alleviate some of the state's pressing lected at gins have substantial

OFFICIAL NOTICE

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Hull, Marc Ellsworth
Degree: Ph. D. in Education (Vocational Education)
Dissertation: THE EFFECTS OF SELECTED PRESENTATION VARIABLES ON THE FORMATION OF VOCATIONAL CONCEPTS BY
EDUCABLE MENTALLY RETARDED STUDENTS

Time: July 9, 1976 at 9:00 a.m. Place: Room 804-A in the Harrington Center George W. Kunze Dean of the Graduate College

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LePori, assistant professor of agricultural engineering, and Dr. Ronald Lacewell, associate professor

About eight times more energy theoretically is available in the gin trash from stripped cotton than is required for processing operations at the gin. The efficiency of the system used to convert the trash to usable energy would determine the actual amount of recoverable energy.

A look at the total amount of cotton and cotton residues produced at gins in Texas shows the possibilities. Three to four million bales of cotton usually are produced in the state each year. It is estimated that up to four billion pounds of trash are collected at the gins in the state directly

from the ginning process. Since a single pound of cotton trash has about 7,000 to 8,000 BTUs of theoretical heat value, the total energy value of this trash would amount to more than 30 trillion

the cotton trash for energy, primarily through capturing heat from incinerators and using the heat for drying the cotton lint, according to LePori. Looking at the long term, there are other ways to use the residues for energy production on a larger scale, such as pyrolysis (burn-ing in the absence of air) and fermen-

the total energy requirements in a typical year for all Texas state agen-

cies and state-supported colleges

A few cotton gins are already using

and universities.

LePori and Lacewell are studying

other types of crops and crop residues as possible energy sources. Supported by the Center for Energy and Mineral Resources at Texas A&M, the study aims to establish geographical densities for these crops and residues. Later phases will evaluate the economic and technical feasibility for collecting, transporting and storing residues for central

energy processing plants.

Texas is one of the top three agricultural producing states. In 1975 more than 20 million acres were planted to four major crops — coton, wheat, grain sorhgum and corn, the Texas Crop and Livestock Re-

porting Service reported. La quantities of crop residues are

Can these wastes be collected processed into usable form energy in an economical man will it take more energy to g and process the material than generated? Only time and fu study will tell.

Indications are that tradition energy sources will continue crease in price as supplies an pleted, a situation which will alternate energy sources mor

New tower to be dedicated [

Henry L. Newman, director of the Federal Aviation Administration (FAA) Southwest Region, for the dedication of the new control tower at Texas A&M's Easterwood Airport tomorrow.

Easterwood Tower Chief Bobby Clay said Newman will join Clyde Wells, chairman of the Texas A&M University System Board of Regents, College Station Mayor Lornece Bravenec and other dignitaries for the ceremonies at 10 a.m. under the awning at the north end of the main airport terminal.

catory address, has received several citations for outstanding federal service, particularly for his work in program coordination and intergovernmental relations. He was a recipient of one of the top ten "Civil

Servants of the Year" awards in 1970. A veteran of 29 years service with the FAA, Newman has held a succession of key management posts. After joining the old CAA (Civil Aviation Administration) in 1946, he worked in Washington, Alaska, New York and Kansas before coming to

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into operation June 1, when Davis, president of Davis Ai headquartered at Easterwood port, took a 13-minute flight spring rainstorm and becameth pilot to use the old control towe the first officially to use the new

The new tower is 14 feet the with enclosed stairway and transistorized equipment. T control tower was originally to College Station from Ellingto Force Base in the 1950s to help radar controlled traffic at Bryan

Force Base.
The invocation for the even be given by Central Baptist Ch Director of Ministry Don Gu

Centennial Aggieland largest ever

Texas A&M University's Ce nial edition of the Aggieland largest yearbook in the histo printing, said Gael Cooper, di

of student publications.

The 896-page, copyrighted ume probably will be submitted. the Guinness Book of World

ords, he said.

Aggieland '76, which contains pages of color photos and at nearly four inches thick, about again the thickness of the 1975 tion, until now the largest A&M yearbook. The cent cover is maroon and gold.

Anyone wanting a copy of the pound commemorative bookens order one at the Student Publication tions Office, 216 Reed McDon Cooper said.

Yearbooks should begin and at the Student Publications of during the Fall 1976 semester.

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"Students who will not be on campus when the yearbooks are published, usually by Sep-tember 1, must pay a mailing and handling fee. Yearbooks will not be held, nor will they be mailed without the necessary fees having

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"Refunds will not be made on books not picked up within one semester of the publica-tion date (December 17, 1976 for the 1976

This policy takes effect with the delivery of the 1976 edition of the Aggieland. THE GRADUATE COLLEGE

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Jame: Burdick, Richard Keith
Degree: Ph.D. in Statistics
Jassertation: A SUPER-POPULATION APPROACH
TO MULTI-STAGE SAMPLING.
July 6, 1976 at 10.00 a.m.
Jace: Room 102 in the Data Processing Center
Convice W. Kinze

George W. Kunze
Dean of the Graduate College THE GRADUATE COLLEGE

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Richardson, John Stuart
Degree: Ph. D. in Biochemistry
Dissertation: MASS SPECTRAL INVESTIGATION
OF FUNGAL METABOLITES FROM ASPERGILLUS RUBER.
THE July 2, 1976 at 10:00 a.m.
Place: Room 214 in the Heep Bldg.
George W. Kunze
Dean of the Graduate College

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Miller, Laurence Frederick
Degree: Ph.D. in Nuclear Engineering
Dissertation: NUCLEAR REACTOR CONTROL
SYSTEM DESIGN WITH SENSOR FAILURE.
Time: July 8, 1976 at 3:30 p.m.
Place: Room 129 in Zachry
George W. Kunze
Dean of the Graduate College

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
me: Winkler, Dwight Donald
gree: Ph.D. in Educational Administration
scertation: THE ROLE OF THE SUPERINTENDENT IN TEXAS AS PERCEIVED BY THE
SUPERINTENDENT AND HIS SCHOOL
BOARD PRESIDENT.
me: Inly 6, 1976 at 315 p.m.

George W. Kunze Dean of the Graduate College

THE GRADUATE COLLEGE THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
me: Li, Sheng-yung
gree: Ph.D. in Economics
ssertation: AN INVESTIGATION ON SPATIAL
PRICE DISCRIMINATION IN THREE
COUNTRIES.
ne: July 1, 1976 at 3:00 p.m.
uce: Room 434-F in the Harrington Center
George W Kunze

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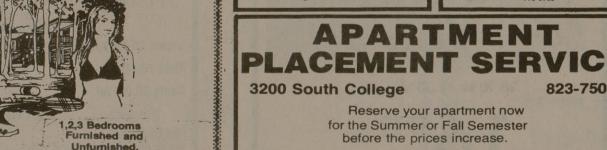
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