

State, Penn Research Staffs Discover Gall Stone Detector



Surgeons demonstrating the new electro-acoustic gall stone detector, which "broadcasts" location signals from the loudspeaker at the left.

by Jo Fox

Penn State squelched the University of Pennsylvania on the grid battlefield Saturday to answer a six-year latent question of football superiority. But last month the two universities, in the rare role of allies, fought and triumphed on another battlefield.—The field of medical darkness.

The winning play was the development of a sound detector for gall stones.

At Penn State, the play was called by 24-year-old Edward G. Thurston, research engineer at the Naval Ordnance Laboratory. Ed, a native Pittsburgher from Avalon, did the work under the direction of Dr. Eric A. Walker at the request of Dr. Charles K. Kirby, an instructor in surgery on the staff of the University of Pennsylvania Hospital.

In a spectacular three-month run, the Penn-Penn State combination solved the medical puzzle of gall stone location.

Previously, because of the lack of suitable equipment, some gall stones were missed and recovery from the operation retarded or a second operation found necessary. The detector when probed inside the bile duct, carries sound waves to an amplifier and "broadcasts" the signal of undiscovered stones. A distinct "ping," distinguishable from healthy tissue, is produced when the probe contacts a stone. Surgeons get their signal with earphones or over a loudspeaker.

The "broadcasts" were recently demonstrated publicly for the first time at the Hospital of the University of Pennsylvania during the course of a series of surgical operations and televised to 4,000 physicians and surgeons at-

tending the Centennial Celebration of the Medical Society in nearby Convention Hall.

The new instrument will be placed upon the open market without patent claims so that the detector will be available to the greatest number of people needing this type of medical aid.

Ed Thurston, who ran this medical touchdown play, was graduated from the Carnegie Institute of Technology in electrical engineering in 1945. He received his master's degree the following year and came to Penn State July 1, 1948.

NOW AT YOUR WARNER THEATER

Cathlam
William Bishop
Gloria Henry
"ADVENTURES IN SILVERADO"

State
Jeanne Crain
William Holden
"APARTMENT FOR PEGGY"

Nittany
International Film Club
presents
WENDY HILLER
ROGER LIVESEY
"I KNOW WHERE I'M GOING"

PRINTING
Multilithing — Addressograph Service
COMMERCIAL PRINTING
Glennland Bldg. Phone 6662

FROTH IS OUT ON THE BALL

Jim Crow —

(Continued from page two)

count of his purchases at the commissary. He has never known what his cotton or corn or peanuts sold for. Technically, half the crop he raises is his. But he never has sold an ounce of cotton or a single peanut.

Here is the pattern throughout the South.

Every Negro knows it and accepts it. It's a custom, a tradition, just as basic as Jim Crow. No Negro dares buck the system. Everywhere I went, and I talked with at least a score of sharecroppers, I heard the same expression:

"If you go to figure behind the Man you're gonna git trouble." For that matter every Negro share-cropper I talked to admitted that he couldn't "figure." "The Man jes' calls it off," they told me, each with a wry smile.

Up in Macon County Henry Mann farms 22 acres of "The Man's" plantation. Last year he raised two tons of peanuts and 11 bales of cotton. At \$200 a bale and ton that would have been \$2,600—Henry's share \$1,300—less, of course, his "furnish" and other expenses. He got \$242 cash. Shamefacedly he admits he can't "figure." He wouldn't "figure behind 'the Man'" anyway. Year before, he says, he made seven bales and a ton and a half of neanuts. He had a hospital bill to come out of his share and wound up with \$30 cash for his year's work. But Henry has a garden of his own and raises a few hogs each year. Apparently he's convinced he is doing all right for himself.

On many plantations "The Man" won't waste good cotton land in gardens for his croppers, (Continued on page eight)

Concert Band Begins Tryouts

Concert Band tryouts for students who are not members of the orchestra or marching band will begin tomorrow, announced J. W. Dunlop, director.

Tryouts will be held Wednesday and Friday from 11 to 12 a.m. and from 1 to 3 p.m., and on Monday, November 15 from 10 to 12 a.m. and 1:30 to 3 p.m. A schedule of times available for tryouts is posted on the Carnegie Hall bulletin board.

The list of players chosen will be posted on the bulletin board and in the Daily Collegian on Saturday, November 20.

Concert Band will hold its first rehearsal at 7 p.m. Monday, November 22.

Back again with music that makes him the campus favorite the country over!

(That Shantytown Man)

Johnny Long

And His Orchestra



For the Campus Date of the Year!

THE JUNIOR PROM

FRIDAY • NOVEMBER • 12th

It's a House Party Weekend You Won't Forget, So Treat that Special Date of Yours to the Really Big Event; The Junior Prom!

Tickets Available Friday from 8:30 - 5:30
Student Union

\$4 per Couple Semi Formal
Dancing 9 to 1 at Recreation Hall