study the still-mysterious function stry. of clays in soils.

is the same kind produced by that is about the only similarity.

Appearance-wise, the infrared he explained. instrument looks like anything but a suntan lamp. It is encased in ing for a number of years with the machine doesn't look much distance between planes of atoms different from other electrical in clay. With the spectrophotoequipment found in modern labor- meter, he now can look at clays

THE INSTRUMENT, known as energy of bonds between the atoms. a spectrophotometer, is being used

#### **Food Preservation** To Be Emphasized By Technologists

will be emphasized here when the to that of the light. Texas Section of the Institute of Food Technologists holds its fifth on graph paper by the machine. annual meeting March 20-21 at the

Dr. Fred Gardner of the Department of Poultry Science, program City Lawmen chairman, said the session opens at 1:30 p.m. March 20 with a talk at 1:30 p.m. March 20 with a talk on "Principles of Food Dehydration." J. J. Wingenbach of the American Sterilizer Company at Erie, Penn., is the speaker.

Another member of the sterilizer firm, Morton M. Raymond, will dis-

ation at San Carlos. His subject training here, reported. is "Commercial Consideration of

Gardner said a meeting high- lating to the justice court. light will be a 6:30 p.m. dinner talk by a A&M scientist who work- a.m. Monday, followed by Beasley's ed with Russian scientists aboard a talk on the institute's objectives. ship. He is Dr. Guy Frances- The Texas Law Enforcement chini of the Department of Oceano- | Foundation and Texas Association graphy and Meteorology.

"Principles of Irradiation" by Dr. the institute. Approach to Fish Processing" by point." Dr. W. W. Meinke of the A&M David B. Cofer, Bryan attorney, invited to hear the discussions.

## High School Choir, of peace, will outline the need for suitable courtroom facilities. D. C.

High school talent will be ex- detector use. choir concert will be held.

show gets underway at 7 p.m.

At 8:15 p.m. the Killen High County judge. Concert Choir will perform. The group, participating in its fourth annual tour of the state, will be Japan Air Base making its first appearance at the local high school.

Directed by Don Pugh, the choral unit has been a consistent first several years.

cluding their present tour.

singers who have performed with good source for a mascot. the San Antonio symphony and the symphony.

the concert.

The Department of Agronomy professor whose special research is using infrared libht rays to field is soil mineralogy and chemi-

Kunze says there is still much The light used in this research to be learned about clays in soil. "We are kind of like a doctor household suntan lamps sold in who knows his patient is sick but drug and department stores. But frequently can't pin down the specific bug causing the ailment,"

The agronomist has been workgray metal and has an assortment X-ray diffraction of clays, an of knobs and switches. In short, identification system based on the from another angle and study the

To use the instrument, Kunze by Dr. George Kunze, agronomy places a clay sample behind a little glass window, throws a switch, turns a knob or two, and the spectrophotometer hums into action.

Various infraed light beam frequencies are directed at the sample until one of the frequencies is ab-

All this is automatically recorded | College Station.

# Here Monday

Lawmen from approximately 25 cuss "Applications of Food De- Texas towns will be on campus next Monday through Friday for the The last speaker of the after- second annual Justice of Peace noon is Richardo Arrendondo of and Constable's Institute, Wallace the United Fruit and Food Corpor- D. Beasley, coordinator of police

Conference speakers include at-Food Drying and Food Preserva- torneys and law enforcement officials, who will discuss subjects re-

Registration will begin at 8:30 of Justice of Peace and Constables March 21 discussions start with cooperate with A&M in holding

G. M. Krise of the Department of Biology. Next are "Nutritive Norman A. Stewart, attorney and Value of Foods Sterilized with associate professor of business ad-Gamma Radiation," Dr. L. R. Ri- ministration at A&M. His talk is chardson, A&M Agricultural Ana- entitled, "The Rights of the Aclytical Service; and "Enzymatic cused from the Prosecutor's View-

Chemurgic Research Laboratory. | will discuss the accused's rights Gardner said the public has been from the prosecutor's viewpoint Monday.

Albert L. Lee of Humble, justice of peace, will outline the need for Betts, supervisor of A&M's Poly-Talent Due Tonite graph Examiners School, will discuss law enforcement, including lie

hibited at the A&M Consolidated OTHER SPEAKERS will be W. High School auditorium Thursday B. Groce of Bryan, Texas Liquor ow and a Control Board agent; Zwiener of Austin, assistant attor-Co-sponsored by the Bengal ney general; Robert S. Evans of Belles and the A&M Consolidated San Antonio, Parks and Wildlife Speech Department, the talent Department conservation chief; W. C. Davis of Bryan, Brazos

### Sent Stuffed Bat

A&M University's wildlife mandivision winner in University In- agement people recently filled a terscholastic League contests for far-away request for "a stuffed bat."

The 40-student organization will be making stops at Huntsville, Force Base in Japan, after reading Airmen stationed at an U.S. Air Conroe and Houston before con- an article in the Stars and Stripes military newspaper that A&M had The A&M Consolidated Concert Choir is sponsoring the Killeen of bats, decided A&M would be a

They contacted Capt. Lester R. North Texas State University Hewett Jr., of the university Department of Air Science who, in No admission will be charged to turn, relayed the plea to wildlife management.

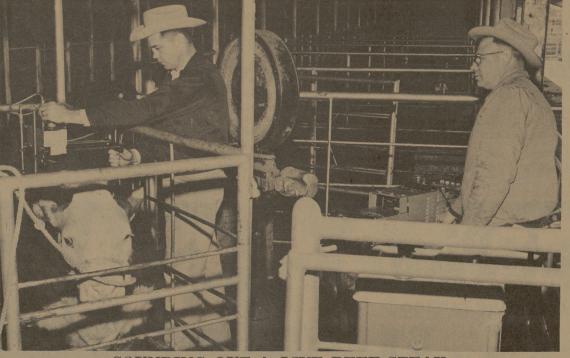
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SOUNDING OUT A LIVE BEEF STEAK L. D. Wythe Jr., left, and USDA official, Dr. Robert Temple, operate Somascope.

#### Christian Citizenship Series Set Monday

New ways of food preservation between the clay atoms is equal day through Wednesday at 7 p.m. American Citizen."

Christian ethics at Southwestern coordinator of religious activities day's talk.

The A&M Baptist Student Un- Baptist Theological Seminary in at Texas Southern University and breeding program. sorbed. When this happens, the ion will sponsor a "Contemporary Fort Worth, will speak Monday on pastor of Wheeler Street Baptist vibration frequency of the bond Campus Christian" program Mon- "Contemporary Campus Christian: Church in Houston, will speak the ville, Tenn., investigation leader apparatus often found in science second night.

in the First Baptist Church of Tuesday night's topic is "Con- Dr. Ralph Langley, pastor of culture's Southern Regional Beef array of vacuum tubes, lights, temporary Campus Christian: Willow Meadows Baptist Church Cattle Breeding Project, has just dials, buttons and toggle switches. Dr. William Pinson, professor of World Citizen." William Lawson, in Houston, is slated for Wednes- finished demonstrating the sys- The whole thing can be placed

Thursday, March 12, 1964

### Ultrasonics Used To Measure Beef

of the future might be using the scope. Temple says the beauty of science of ultrasonics to help breed using ultrasonic is that a measuremeatiness into his animals.

name for high frequency sound, the in a holding chute. Only a few kind that can't be heard by human minutes per animal are required. ears. Ships and submarines use Before, the only way to deterthe principle to bounce sound off mine actual meatiness was to of distant objects for detection slaughter the animal and take on sonar scopes.

And now researchers have de- cuts. veloped an ultrasonic system to "And that kind of wear and tear layers of fat and muscle to meas-ure how much meat a breeding animal has under that layer of hide.

THE USDA OFFICIAL says the Somascope is most often to sound

it's easy to see that a method of quickly determining the characteristic would be a valuable tool in a breeding, program and steer and fat areas also can be tested. The ribeye is the main part of a T-bone steak.

for the U.S. Department of Agri- laboratories. There is the usual

ment can be made of meatiness Ultrasonics is the scientist's just as the live animal stands there

measurements on the important

bounce high frequency sound off is hard on breeding animals," Tem-

MEATINESS is about 50 per out the ribeye muscle and the fat cent heritable in beef cattle, so around it, but the round and other

The Somascope looks much the Dr. Robert S. Temple of Knox- same as other complex electrical on a card table.

BABY BEEF CROWN . . .

BABY BEEF SHOULDER . .

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