

# Bone parts in meat not all bad

By MARSHA MOULDER  
New methods of providing food for Americans may provoke housewives into overcoming their queasiness at the thought of consuming parts of animals that have been previously cast aside.

A process for mechanically deboning meat has presented a controversy involving packing houses, consumers and the U.S. Department of Agriculture (USDA). Dr. G. C. Smith, professor of Animal Science at Texas A&M University, said recently the machine was developed because hand deboning doesn't efficiently get all of the muscles. The machine works by chopping the bone and all, and pushing it out of

sieve large enough to allow only the muscle parts through. The deboning machine was developed for use on chickens by a company in Utah around 12 years ago.

The use of the machine has been extended to red meats. Work at Texas A&M has been done on lamb, beef and pork.

"Primarily, it will help in making frankfurters, sausage, and ground beef," Smith said.

Consumers petitioned the USDA to disallow the mechanical deboning of meat in the making of sausage products. Smith feels the consumer fear was brought about by a newspaper story.

"The story said something to the effect that the government was now going to allow ground bone in frankfurters, which was not correct," Smith said. "Someone was misquoted somewhere."

Just exactly how much bone is in

the meat that is run through this process has been studied at Texas A&M. According to Smith there is less than 1 percent of bone and this is in tiny particles. Although no work has been done at Texas A&M on the health aspect of this process, Smith said medical-school opinions have been that this product is a good source of calcium, which the American diet lacks. Smith pointed out a person needs a 2:1 ratio of calcium to phosphorus. "We're terribly out of balance because of soda pop which contains a lot of phosphates," he said.

Smith said if the replacement of mechanically deboned meat is kept below 10 percent it gives a better taste and texture to the meat without a notable change in the meat products consumers are used to. He said pork sausage should be made with 4 percent replacement and 96 percent regular meat. The USDA has issued regulations that

must be followed to use this process, such as the amino acid count. Smith said meat packers are not using the mechanical deboning process. They are not happy with all the regulations, particularly with the name the USDA has required they put on packages of the products—Tissue From Ground Bone (TFGB). Packers are afraid this label will scare the consumer off. Smith cited the example of getting protein from blood. He said in this case the decision would have to be made whether to put "blood" on the label or not.

"I feel consumers will be better off if we tell the truth," Smith remarked.

The mechanical deboning process is economical, according to Smith. He said once it is determined that the packers will use this process they can set up the entire system for about \$100,000, he said.

**Calvert Hotel Players**

**DINNER THEATRE**

Presents:

**"The Night Thoreau Spent In Jail"**

Saturdays, Nov. 5, 12, 19 & 26  
at the  
105 year old Calvert Hotel  
Calvert, Texas

Reservations or for more information, 364-2641  
Tickets: A&M Student \$5.95, Others \$7.95

## Campus activities

**Wednesday**  
Bridge Committee, ACU-I qualifying game, 7:15 p.m., MSC  
CAMAC, 7:30 p.m., 137 MSC  
Great Issues-Black Awareness Debate, Dr. William Shockley-Dr. Richard Goldsby, 8 p.m., Rudder Auditorium  
Aggie Cinema, "Adam's Rib", 8 p.m., Rudder Theater

**Thursday**  
Growth Management in International Perspective, 601 Rudder  
Pasadena Area Hometown Club, 7:30 p.m., 601 Rudder  
Aggie Players, "Waiting for Godot", 8 p.m., Rudder Forum  
Cephed Variable, "Carrie", 8 p.m., Rudder Theater

**Friday**  
Student Book Collectors Awards Program, Jay Belloli, 2 p.m., 226 Library  
Aggie Players, "Waiting for Godot", 8 p.m., Rudder Forum  
Town Hall, 8 p.m., C.B. White Coliseum

**Saturday**  
Weightlifting Club, open house, 9 a.m. to 3 p.m., Houston  
College of Architecture, Environmental, open house, 9:30 a.m. to 12 p.m., 801 Rudder  
Aggie Players, "Waiting for Godot", 8 p.m., Rudder Forum  
Aggie Cinema, "Network", 8 p.m., Rudder Theater  
Monty Python meets Beyond the Fringe, 12 midnight, Rudder Auditorium  
Pre Veterinary Society, party, 8 p.m., 601 Rudder  
Marshall-Harrison County Humane Club, 8 p.m. to 12 p.m., Tangram Apartment party room  
15 p.m., MSC

**Sunday**  
Rompin' Stompin' Chili Bang sponsored by Recreation and Park Fellowship Community Center on Road

# The Battalion Classified

<p><b>SPECIAL NOTICE</b></p> <p><b>AGGIELAND REFUND POLICY</b> Yearbook fees are refundable in full during the semester in which payment is made. Thereafter no refunds will be made on cancelled orders. Yearbooks must be picked up during the academic year in which they are published.</p> <p>"Students who will not be on campus when the yearbooks are published, usually by September 1, must pay a mailing and handling fee. Yearbooks will not be held, nor will they be mailed without the necessary fees having been paid."</p> <p>This policy took effect on October 22, 1976.</p> <p><b>DIRECTORY REFUND POLICY</b> DIRECTORY FEES are refundable in full during the semester in which payment is made. Thereafter no refunds will be made on cancelled orders. Directories must be picked up during the academic year in which they are published.</p> <p><b>WANT AD RATES</b> One day 10¢ per word Minimum charge — \$1.00 Classified Display \$1.85 per column inch Each insertion ALL classified ads must be pre-paid. DEADLINE 12 noon day before publication</p> <p><b>ATTENTION DECEMBER GRADUATES!</b> You may begin picking up your Graduation Announcement Orders November 21st in the Student Program's Office, Room 216 A&amp;B from 8:00 to 5:00, Monday thru Friday. Also — Extra Graduation Announcements will go on sale November 28th in the Student Finance Center, Room 217, MSC at 8:00 A.M. on a first come, first serve basis.</p> <p>Weight Watchers meets in College Station Thursdays, 5:15 P.M. Lutheran Student Center 315 College Main. For further information call 822-7303.</p>	<p><b>SPECIAL NOTICE</b></p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Bird, James Arthur Degree: D. Ed in Adult and Extension Dissertation: A FACULTY STRUCTURE FOR POST SECONDARY INDIVIDUALIZED INSTRUCTION. Time: 1:40 P.M. on November 21, 1977 Place: Harrington, Room 714 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Rayton, John Kenyon Degree: Ph.D. in Biochemistry Dissertation: THE ACTIVATION BY COPPER OF CHICK AORTIC LYSYL OXIDASE. Time: 10:00 A.M. on November 21, 1977 Place: Heep, Conference Room G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Sullins, Richard Don Degree: Ph.D. in Food Technology Dissertation: SCANNING ELECTRON MICROSCOPY: A POTENTIAL FOR SELECTING HIGH LYSINE SOYBEANS WITH AGRONOMICALLY ACCEPTABLE KERNEL CHARACTERISTICS. Time: 2:30 P.M. on November 11, 1977 Place: Soil &amp; Crop Science, Room 440 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Ueno, Kenji Degree: Ph.D. in Chemistry Dissertation: FORMATION AND REACTIONS OF LITHIUM PYRIDINYL-CARBONYL TETRACARBONYLFER-RALE. Time: 10:00 A.M. on November 22, 1977 Place: Chemistry Building, Room 1335 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Misra, Lalith Kishore Degree: Ph.D. in Poultry Science Dissertation: ROLE OF IMMUNOCOMPETENCE, IMMUNOSUPPRESSION AND SOCIAL STRESS ON SUSCEPTIBILITY OF CHICKENS TO ROUS SARCOMA. Time: 3:00 P.M. on November 21, 1977 Place: Agriculture Building, Room 200 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Brackett, Jr., Robert Quinn Degree: Ph.D. in Industrial Engineering Dissertation: COMPARATIVE EVALUATION OF SPEED CONTROL STRATEGIES. Time: 3:00 P.M. on November 22, 1977 Place: Zachry, Room 337E G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Wright, Kenneth Carroll Degree: Ph.D. in Veterinary Physiology Dissertation: A STUDY OF THE CANINE PITUITARY-ADRENAL-THYROID AXIS. Time: 10:00 A.M. on November 21, 1977 Place: Vet. Administration, Room 3001 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Mohundro, Charles William Degree: Ph.D. in Business Administration Dissertation: THE PRIVATE REAL ESTATE SYNDICATE INVESTOR'S INVESTMENT TENDENCIES AND PRACTICES: A PARTICULAR ASPECT OF THE REAL ESTATE SYNDICATION PROCESS. Time: 1:40 P.M. on November 17, 1977 Place: Francis Hall, Room 313 G. W. Kunze Dean of the Graduate College</p> <p><b>THE GRADUATE COLLEGE</b> Final Examination for the Doctoral Degree Name: Assouf, Intisar Senoussi Degree: Ph.D. in Environmental Design Dissertation: THE DESIGN OF AN EDUCATIONAL PROGRAM AND PHYSICAL FACILITIES FOR ARCHITECTURE AT EL FATEH UNIVERSITY, LIBYA. Time: 2:00 P.M. on November 16, 1977 Place: Langford Architecture, Room 403 G. W. Kunze Dean of the Graduate College</p>	<p><b>FOR SALE</b></p> <p>Two 50-yd. Arkansas tickets. Best offer. 845-1139, 845-6048. 5022</p> <p>71 Ford Maverick. Good condition. \$950 or best offer. Call 846-7509 after 6 P.M. 5033</p> <p>Contemporary house for sale by owner. Prime C.S. location. Call 693-8238 after 5. 4020</p> <p>77 Olds Starfire GT. Loaded. 6,000 miles. Sharp! Sporty! Must sell. 846-2426. 4510</p> <p>Portable Singer zigzag sewing machine. Perfect condition. 575. Call 693-8421. 484</p> <p>Gibson Les Paul Jr. guitar. Call 693-2619. 4933</p> <p>Honda Elsinore M.T. 250. Excellent condition. Book rack included. 8650. 693-4106. 494</p> <p>MOBILE HOME, 14x64, 2 bedroom, 1 bath, additional room, dishwasher, stove, unfurnished. Currently on 3 acres. 845-6025 or 1-394-2181. 495</p> <p>1972 Chevy Van. Beautiful blue, loaded, mags, air. Reduced to sell. 779-3165. 495</p> <p>Bring your bikes to White's Auto Store-College Station, your oldest and most dependable store, for parts, repair or trade and prices you like.</p>	<p><b>HELP WANTED</b></p> <p>Waitress needed 11AM-2PM, 5 PM-9PM and alternate weekends. Experience preferred. Apply in person 2-4-30PM Gabe and Walker's Barbecue, Hwy. 60 West. 476</p> <p>Weekend help wanted. Apply in person 2-4-30PM Gabe and Walker's Barbecue, Hwy. 60 West. 476</p> <p><b>SECRETARY NEEDED</b> 4 years experience necessary. Full time position available at the Center for Urban Programs. Contact Karen Taylor at 845-4527 for interview scheduling. Equal Employment Opportunity through Affirmative Action. 4714</p> <p>Female help wanted. Light manufacturing. Call 846-4012. 4716</p> <p>Samba's is now hiring waitresses, especially for nights. Experience beneficial but not necessary. 1045 Texas Avenue. 4410</p> <p>Counter salesman for electrical parts. Part time and full time. Call 822-1862. 4810</p>	<p><b>FOR RENT</b></p> <p>Apartment for sublease. Briarwood 2 bedroom 1 bath \$240/mo. utilities paid. 845-1143. Priesmeyer. 503</p> <p>Horse pasture and stall. 846-7015. 4418</p> <p>For Sublease: Large efficiency apartment in Doux Chene. Available now. Lease ends August 15. Only \$180/month, utilities paid. Call 693-3244 after 6:00. 5015</p> <p><b>CHEYENNE APTS.</b> Brand new attractive apartments. 2 bdrm., 1 bath. All modern appliances. Washer, dryer connections. Central air/heat. About 1 mile from campus. 693-4758. 3424</p> <p>Deluxe duplexes newly completed. 2 bdrm., 1 bath. Central air/heat, all modern appliances. Washer dryer connections. About 1 1/2 miles from campus. 693-4758. 3424</p> <p><b>NOW TAKING DEPOSITS</b> Lexington Apartments and Motor Inn "A day or a lifetime" ... 216 Dominik 693-1220 *One &amp; Two bedroom furnished apartments. *All bills paid. *No required lease. *Total security system</p> <p><b>FOR RENT</b> Bedroom in upstairs apt. with three girls — private home, 5 min. from campus. \$80/mo. Bills paid. Call 846-5694 after 5. 4813</p> <p>Spacious Duplex: 2 bedroom, 1 bath, living room, kitchen, fully carpeted, central air/heat, stove, refrigerator, dishwasher, disposal, free lawn care. Less than 1 mile from campus. 1 year old. \$Reasonable. 215 Brentwood, C.S. 693-7432. 5014</p>
--	---	--	--	--

**ALLEN Oldsmobile Cadillac**

SALES - SERVICE

"Where satisfaction is standard equipment"

2401 Texas Ave.  
823-8002

---

**LOST**

Share 3 bedroom furnished house through December. Garage, fenced backyard, dishwasher. 846-0319, 845-5027. 4933

---

**LOST**

SR-52 calculator between Slab and Sbsia. REWARD. Call 846-3204 or come by Leggett #43. Vital to my work. 4716

---

**AUTO INSURANCE FOR AGGIES:**

Call: George Webb  
Farmers Insurance Group  
3400 S. College 823-8051

**FULL OR PART TIME HOUSEWIVES OR STUDENTS**

Help wanted, both day or night shift and weekends. Housewives work while children are in school. Students nights 5 p.m. - 10 p.m. & weekends.

**COUNTER AND CASHIER WORK \$2.60/hour**

APPLY IN PERSON ONLY  
WHATABURGER - College Station 105 Dominik

Bryan 1101 Texas  
An Equal Opportunity Employer 143fn

**YOU DON'T KNOW WHERE TO EAT OUT?**

**Check the Battalion ads!**

## AM stereo viewer future innovation

—WASHINGTON—AM stereo is coming. But you may have to wait a year or two before it comes to market.

The Federal Communications Commission took the first step this past summer toward clearing the way when it published a notice seeking information about the topic.

If approved by the FCC, AM stereo channels would broadcast popular FM stereo programs.

Behind the move is pressure from AM broadcasters who want to compete with successful FM stations.

An FCC official said the broadcast industry is showing a lot of interest. The official also said manufacturers of car radios are interested. They think AM stereo will be less susceptible than FM to fading out.

Another factor, some communities that have AM broadcast outlets don't have FM stations because there aren't enough channels to go around.

One expert at the Electronics Industries Association said the technology has always been available, or at least within reach, but little demand has existed.

"The time has come," he said. "Somebody is interested in it. You have intergraded circuits now which allow you to do things without adding cost. And AM stereo also offers an opportunity for upgrading of both AM broadcasting and receiving."

There's really no good merchandise available for the public right now as far as AM goes. Stereo will be an incentive for manufacturers to offer equipment that's comparable in quality to FM.

"The quality of reception is an approach that of FM."

He also said he doubts it is practical to retrofit existing AM systems vying for the FCC's attention. It needs late this year, he said.

Once the FCC collects the information it needs late this year, stereo might not be a reality late 1978.

Will AM stereo be able to do anything FM stereo can't?

The ideal would be what Pappas, a casters call "full compatibility," a 3-year ability to send signals as far as general AM signals now go, with a 3-year extension to listeners to receive away 1 monaural AM radios. Whether you can be accomplished is yet to be seen.

If it can be, AM could edge over FM because of the advantages.

An FCC official said he has about five different systems he has tested for both transmission and reception of AM stereo.

On the FM front, the FCC has asked for information on "raphonics," or four channels of stereo to accommodate music now recorded that way.

One possibility would be a system that can transmit four distinct channels that could be split four, once the signal reaches the listener.

# CUBICLE SPACE

Any recognized organization that would like to apply for cubicle space in the Student Programs Office, Room 216, MSC, should come by Room 216 and fill out an application.

**THE LA SALLE**

Attention Co-op Students. A quiet, dignified place to live & study.

Monthly Rates

120 SOUTH MAIN BRYAN  
713/822-1501

