

#### **By Bridget Harrow** Reporter

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Older dogs unable to hear their naster's call, car horns or just the park of fellow dogs now can have their hearing restored with the help of a hearing aid available through Texas A&M's College of Veterinary Medicine.

Dr. Patricia Luttgen, the only board-certified verterinary neurologist in the state, said she is trying to nform people about the hearing aids. She said she receives about four or five phone calls a year from dog owners who ask about them.

"Dogs are living longer lives because of better veterinary health care," she said, "and they are getting up there in years where the deafness s going to start to show more than it

"We have the diagonistic equip

sound. This type of deafness can be of them are made with a straight treated with a hearing aid, she said.

'Dogs that are nerve dead, where there is permanent damage to the hearing nerve, or in young puppies that are born just without the nerve cannot be helped," Luttgen said.

Another way dogs lose their hearing is from infections that extend into the inner ear, she said. Conduction deafness usually begins when dogs are about 9 or older, she said.

stem," she said.

For size adjustment, there is a compressible foam and the aid is run through the center of it, she said. The foam is selected for the size of the dog's ear canal and then compressed to a small ball, she said, but once inside the ear, the foam expands to fill in any excess space.

The aid will work in any dog that weighs 10 pounds or more, Luttgen

"Even though hearing is not restored to the original level, I think dogs like to hear the human voice even if it is saying 'No, don't do that.'

- Dr. Patricia Luttgen, board-certified verterinary neurologist

Since dogs have to be trained to wear the aids, Luttgen recommends a basic four-week training program. The first day should be spent keep-ing the hearing aid in the dog's ear for 15-minute periods, while re-straining the dog from immedi-atedly shaking his head or pawing the aid out, she said, and the periods should gradually increase to 30 minutes during the first week

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By the second week, the dog should wear the aid three continuous hours a day at an increased volume, she said.

During the remaining two weeks, the wearing time is increased until the dog can wear the aid all day, she said.

"People who are very willing to work with their dogs and are home enough to do it have a good sucess rate," Luttgen said. "We are getting about an 80 percent success rate with

ment to determine which dogs need them, and in which dogs the hearing aid won't work. Just sticking the aid in a deaf dog is not a guarantee that the dog will hear and benefit from

To determine how much hearing loss a dog has and of what nature, auditory-evoked potential testing is administered. A series of tones and clicks are set off in each ear to determine if brainwaves are generated from the sound.

Luttgen said the college is looking for dogs that have conduction deafness, in which the nerve is fully or tianity and ed by Dr. ofessor of partially intact, but needs help so it still can send messages and signals to the brain to consciously perceive when she noticed his significant hearing loss

as a regular human hearing aid, she said. It runs on a watch-size battery and has a volume control, she said.

hearing aids because they are mass produced.

"The difference in the dog hearthe ear configuration of each dog, all day, she said.

Luttgen said her dog was about 12 said. For smaller dogs, the outside bulb of the aid is too big, she said.

The aid costs \$250 plus state tax, The dog hearing aid, made in Hu-ron, Mich., has the same electronics which take about a day to complete, are no more than \$100, Luttgen said. The foam and the batteries are the only replacement costs, she said.

However, she said, the dog aid will be less expensive than human Luttgen said the foam currently lasts up to several months and costs just a few dollars for a month's supply. The batteries last about two

weeks if the hearing aid is used only ing aid is that instead of each aid during the daytime hours and a having to be molded specifically for week if the aid is used 24 hours a

the first few dogs." Luttgen said some dogs are too

tempermental to tolerate the aid. "They are the kind who probably

never had their feet in wet grass and have never been disciplined in their life," she said. "And getting them to tolerate anything in their life has never been forced upon them either.

Luttgen said she doubts that a dog-whistle hearing level can be restored to any dog wearing the aid.

don't do that.

#### "Even though hearing is not restored to the original level, I think dogs like to hear the human voice,' she said, "even if it is saying 'No,

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## Technology could expand oil production

DALLAS (AP) - A huge potential exists to expand produc-tion in U.S. oil fields, but experts said overworked fields will remain top producers only if the industry puts a priority on technological advances.

During the boom times, "no one needed to do it better," said Frank Schuh, president of Drilling Technology Inc., at the an-nual meeting of the Society of Petroleum Engineers. "The problem is that 80 per-

cent of all the wells drilled in the world have been drilled in this country," Schuh said Tuesday. 'We've found it all.'

If the industry is going to "sur-vive on these crummy fields," several new methods of drilling will have to be explored, such as ad-vances in drilling technology, he said

Robert C. Mills, vice president of Mobil Exploration and Producing Services Inc. said the industry's rededication to technology is just as necessary as its consolidation and retrenchment.

# 2 ministers testify at hearing of convicted killer Brandley

GALVESTON (AP) - Two ministers testified Wednesday they attended the first two trials of convicted killer Clarence Brandley and said a hostile racial attitude was pre-

sent. "When you passed by a deputy or when you spoke to or asked a question, you could tell you weren't a welcomed guest or a first-class citi-zen," said the Rev. C. Anderson Davis of Houston, director of the National Emancipation Association.

When prosecutor Rick Stover asked Davis if his assumption was a subjective opinion, Davis said a Montgomery County sheriff's deputy told him during the trial that the case had been rigged.

The prosecution asked Davis to identify the deputy if he could, but defense attorneys objected, saying they didn't want to allow it if it meant the deputy would lose his job.

Visiting State District Judge Perry Pickett ordered a closed hearing with attorneys and Davis so he could further describe the deputy. Transcripts of the closed meeting will be sealed and sent to the Texas Court of Criminal Appeals.

Pickett is considering evidence at when a black man was burned at the the hearing moved to Galveston af-stake on the county courthouse ter defense attorneys complained that witnesses would feel intimidated in Montgomery County, Brandley's home county 90 miles to the north.

The judge must recommend to the appeals court whether Brandley should be granted a new trial, his third.

Brandley, 36, was convicted in 1981 of the August 1980 rapestrangulation of Cheryl Fergeson, 16, who was slain while at Conroe High School with her Bellville High School girls volleyball team. She was the team manager. ley's probation for possessing a sawed-off shotgun, which was den-

The Rev. J.J. Roberson, of Houston, who also attended Brandley's first two trials, said there was a prejudiced atmosphere, especially with

"We tried to sit there and look at the jury and try to find one face that might be favorable to Brandley, but we couldn't find that face "heavid

receive the death penalty is a black defendant with a white victim in a Defense attorney Mike DeGeurin asked Roberson if he thought things defendant with a w in Conroe had changed since 1930 rape-homicide case.

lawn District Attorney Peter Spears objected, saying the question was irrele-

\$30,000.

ied, he said.

vant, but was overruled. Defense attorney Don Brown testified he thought former Montgomery County District Attorney Jim Keeshan tricked defense attorneys by saying if Brandley would go be-fore a grand jury he wouldn't ask for high bond. His bond was set at

Then Keeshan turned around

Sheldon Ekland Olson, a Univer-

and filed a motion to revoke Brand-