## Storm plan forming

Some people have called the coastal area around Calveston Bay a disaster waiting to happen, lacking only a hurricane to set it off. A Texas A&M University

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researcher is working to change that.
Dr. Carlton Ruch of the Center for Strategic Technology is busy coordinating efforts for a hurricane evacuation plan to be ready by June 1981 that could, if implemented correctly, save many lives in the fast-growing Galveston Bay area.

Many researchers are contributing to the plan, which the media will help distribute to Harris, Brazoria and Galveston county residents, who are histor-

Some evacuees could have only 12 hours between first warning of a hurricane and the beginning of flooding on escape routes.

ically the Texans hardest hit during the yearly June-

October hurricane season.

Ruch is assembling the plan, which is based at Texas A&M, but input comes from every level, from the National Weather Service to the governor's office to city civil defense units.

Ruch said a hurricane is an emergency transcending any one level of governmental authority. One example Ruch described which would need community cooperation is a possible congestion on Inter-state 45 resulting from all communities evacuating along that route.

Therefore, Ruch said, he is working with people on many jurisdictional levels so the plan can be accepted by all concerned.

A Texas Transportation Institute representative from the Galveston area has predicted some eva-cuees could have as little as 12 hours between first warning of a hurricane and the beginning of flooding on escape routes.

Increased hurricane-awareness and distribution of evacuation materials will greatly aid coastal residents, many of whom are new to the area and largely

ignorant of hurricane destruction.

Hurricanes, with their 75-200 mph winds, have hit some part of the Texas coast on the average of once every two to three years since 1900.

In the September 1900 Great Galveston Hurricane, 3,600 homes were levelled by storm tides and

an estimated 6,000-8,000 people died.
Ruch said 90 percent of hurricane deaths are drowning deaths, caused by the storm surge which always accompanies a hurricane. The surge, a large body of seawater pushed ahead of the storm, could flood low-lying areas with up to 19 feet of water. Ruch said experts dispute the exact height to which a surge in the Bay area could rise.

Ruch will be utilizing the National Weather Service's newly-developed storm surge model. The model will be able to predict for hurricanes approaching the Galveston Bay area where and when the storm surge will pass over the land and how deep

Ruch said the National Weather Service will run several types of storms through the storm surge model. This will give researchers some idea of what to expect when a real hurricane hits the coast, such as when roads are expected to be blocked by floodwa-

Ruch said the highest road off Galveston Island is probably less than six feet above mean sea level, making escape routes very susceptible to flooding.

The system is not the answer to all prayers, but a prediction tool, Ruch said. "Hurricanes can strike 1,000 different ways with 1,000 different results." Thomas Urbanik, local assistant research engineer

of the Texas Transportation Institute, will soon begin work on a traffic analysis of the hurricane-prone area.

Using census and phone-survey data, Urbanik and Ruch will learn approximate evacuation intentions for various types of storms. Urbanik said he will probably use a computer model to determine highway demand on each escape road.

When approximate numbers of evacuees are known, residents in the most vulnerable areas can be advised to leave first. Also, it will be possible to

Hurricanes have hit some part of the Texas coast on the average of once every two to three years since 1900.

predict the placement of evacuation shelters and critical area shelters where residents may not have enough time to evacuate the area.

Besides an awareness of escape routes, the public needs an awareness of different types of hurricanes and their danger. The media have begun distribution of information released earlier this month by Ruch and Texas A&M psychology professor Larry Christ-

Funded by the Sea Grant College Program, the psychological survey of Galveston residents con-cluded people need to be aware of the different forces of hurricanes, how long it takes to evacuate the area and specifically what to do during a hurricane watch (first alert of possible hurricane threat) and a hurricane warning (notice a hurricane may strike a coastal area within 24 hours or less).

bummer camps not just for scouts

### Cadets receiving training

seventeen of 91 Naval ROTC tadets are in Marine Corps "bulldeg" training at Quantico, Va. Navy officer candidates including seniors, in the Merchant support of the puniors and sophomores are aboard thips for cruises in the Western Pacific originating at Norfolk, Va.; Hondridge San Diego, Calif. and Guandal Mark. olulu, San Diego, Calif., and Guan-tanamo Bay, Cuba. Col. Robert Gib-

New rabies r political vaccine the kind given OK

ment has approved a more effective and less painful rabies vaccine that requires only five shots instead of 23 and is given by injection into the arm instead of the stomach.

The vaccine is produced from viruses grown in human cell culures, instead of in duck eggs as is the sent vaccine

Dr. Jerry Winkler of the federal Center for Disease Control in Atlanta estimated the cost of the medicine lone will be at least \$370 for the five vaccinations. The duck egg variety runs \$325 for the series of 23 shots.

ents who wear a uniform during the one cadet is training in Sweden on a ing, said Col. James Woodall, profes-

thited States and around the world are scattered to Lackland Air Force Kan, for six weeks training that be the Air Force, Army, Navy and Base at San Antonio, Vandenberg gan June 6. Two are in Ranger School Marine Corps officer-commissioning and McClellan, Calif., and McConart Training is accepted in lieu of regular training is accepted in lieu of regular Army summer field training. Marine Corps officer-commissioning and McClellan, Calif., and McConpograms at Texas A&M have 266 nell, Wichita, Kan. Col. Kenneth Durham, professor of aerospace studies, said 70 cadets are divided be-

The Army ROTC program at commissions on graduation.

cool year are still in military garb foreign exchange cruise. sor of military science and comman-lissummer, serving throughout the Air Force cadets from Texas A&M dant. All but two are at Fort Riley. Inted States and around the world. are scattered to Lackland Air Force Kam, for six weeks training that be-

The cadets' summer training comtween two four-week training bines with on-campus military courses and training to lead to officer

### **Comedian Pryor** critically burned

United Press International
LOS ANGELES — Comedian Richard Pryor, the upper half of his body critically burned by a cigarette lighter that exploded in his hand,

has only a 35 percent chance of surviving the third-degree burns. The 38-year-old entertainer was in critical condition Tuesday at Sherman Oaks Community Hospital's burn ward, where he was rushed by paramedics shortly after the butane lighter exploded Mon-Authorities were unable to provide details on how or why the lighter

exploded.

"Mr. Pryor sustained a serious 50 percent total body surface burn over his hands, chest, abdomen, back and face," said Dr. Jack Grossman. "He is in critical but stable condition at this time."

Grossman said the comedian has third-degree burns over the entire upper half of his body, adding that "only 25 to 35 percent of the people in his age group survive burns that extensive."

"It's a very bad burn," said Grossman, adding that Pryor was conscious and talking to family members early Tuesday.

Police said Pryor's clothing became engulfed in flames at his home

"A neighbor apparently heard commotion and made the call to police," said Sgt. H. J. DeLong.

Fire Department paramedics picked up Pryor, who was sprawled in front of his house on Parthenia Street in the northern San Fernando Valley. Pryor, engulfed in flames, apparently had run into the street

The MSC Council seeks A&M students for membership and officer positions for the following projects:

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MSC Welcome Back Picnic, Noel Watkins, chairman

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crosstalk are achieved.

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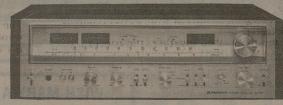
Bass and treble controls provide 10 dB of boost or cut at 70 Hz and 10 kHz. When set at 12 o'clock, the tone controls are bypassed for maximum transient response. Other features include a 12-dB/octave subsonic filter, 20-dB audio muting, phono impedance selection (22, 47 or 100 kohrns) and bidirectional dubbing. Volume are tone control detents facilitate repeatability of settings. A turn-on transient protector eliminates initial power surges that could damage speakers.

Frequency Response
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RIAA Phono Accuracy
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Tuner, Aux
Total Harmonic Distortion
Phono Pre-Amplifier
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Maximum Phono Input
Input Sensitivity
Phono 1, 2
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Dimensions 10-100,000 Hz, +0/-1 dB

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Norman Eisenberg and Len Feldman report on the B-I-C T-3 Two-Speed Cassette Deck for *Modern Recording*: The performance of the B.I.C. T-3 — at both speeds — was definitely suggestive of cassette decks costing much more than it does. This verdict applies to all tested performance areas: frequency response, distortion, signal-to-noise, recording headroom, wow and flutter, and so on. The specifications for the T-3 are impressive enough; our lab tests con-

ed the unit at both speeds, using two different tapes types as applicable and came up with nothing but super latives on all counts. The "wors case" response made it out to 19 kHz; the best response extended from below 20Hz to beyond 20 kHz. S/N varied from 57 dB to 69 dB, lepending on speed and tape used The latter figure, of course, suggests the kind of performance you'd expect of a high-grade open-reel deck



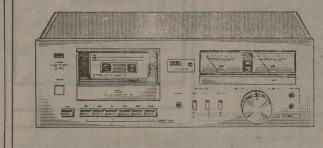
The heart of the Heil airmotion transformer is a feather-weight pleated Teflon diaphragm bonded with conductive aluminum strips. The diaphragm is suspended within a massive magnet structure. A series of precision milled focus lenses concentrate an intense magnetic field around the diaphragm.

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