



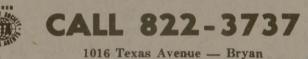
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Space radar to check floods

The space shuttle and the loads it can carry into space are going to open up a new frontier for scientists of the world.

TAMU scientists from the Remote Sensing Center are developing the types of systems that will provide high resolution radar observations of the land, sea and atmosphere.

The center, a division of the Texas Engineering Experiment Station, has been funded to an additional \$19,000 by the Jet Propulsion Laboratories to specify the needs of the shuttle radar

The shuttle will deliver into space a sophisticated radar system capable of providing photo-like images of the earth's surface, even when the earth is covered with clouds.

"We are picking out the major applications for the radar and are defining the experiments," said team spokesman Richard Newton. "Microwave sensors provide excellent images of the surface regardless of the weather or lighting conditions. Therefore, they offer the only means of collecting information about areas having frequent cloud cover, such as the Northeast U.S.

"For instance, the U.S. Department of Agriculture wants to monitor watersheds," Newton continued. "The observations can be used for planning dams and reservoirs. With these readings, run-off

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information that would take years to the radar data that will establish a accumulate by conventional means demand for a shuttle radar and procould be done in a short time by satellite. This would allow flood

Great Lakes ice navigation. The the ability of ships to penetrate the ice. This method could also be used to map the polar ice cap.

Mineral exploration is an area of research where radar can penetrate vegetation and the earth's surface to note composition of rocks and aid in petroleum exploration.

The equipment can monitor the progress and extent of floods, hurricanes, blizzards, destructive winds, fires, tidal waves, earthquakes, and volcanic eruptions. This can be done in any weather during either the day or night.

patterns and changes.

tions of ship activities in support of international agreements, especially in the economic coastal zone.

NASA-funded study by the JPL and TAMU to identify applications of

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vide guidelines for the sensor design," Newton added. The radar system can be put into unmanned satellites equipped with forecasting to become a reality.

Another area of application is for satellite radar can note the size and shape of ice flows and ice thickness while measuring the roughness and

"This is only part of a two-year,

Engineers say red tape

causing sewer backups At the top of a lot of federal agencies are mostly lawyers and economists who don't give a damn about professional engineers," an Environmental Protection Agency (EDA) official contended here last Thursday

Harold P. Cahill, Jr., director of treatment program. Consulting enthe municipal construction division gineers claim they are hamstrung by of the EPA, spoke before the 39th regulations and restrictions. Cahill

The satellite radar could also be sensitive to vegetation types and conditions while recording land use - High school sports Tinally, there could be observa- may help universities

> More research is needed, thinks a athletes, said Dr. J. Steven Picou. TAMU sociologist, to pinpoint the In fact, his evidence suggests athlerole high school sports have in intic participation may actually enfluencing athletes to go on to colhance development of educational plans

> > Picou.

researcher Dr. Evans Curry ex-

amined replies from 3,200

Findings suggest that participa-tion in high school sports has an en-

couraging effect on the student-

This is especially true if the ath-

lete is from a rural area and was not

before competing. However, problems may arise for

"inflated aspiration" from the visi-

bility and laurels that accompany

success in high school sports. More

research is needed in this area, said

high-level aspirations for educa-

"However, because previous in-vestigations failed to isolate the in-

tional achievements," he said.

"It appears that our data provides

particularly inclined toward college

Louisiana high school seniors.

athlete to attend college.

orbit and picked up by the large

capacity shuttle. The shuttle can be

used as a versatile platform for col-

However, more in-depth studies are necessary, he said, to bring the High school sports don't seem to hurt grades or college aspirations of theory into clearer focus.

Oil exploration hazards, study for researcher

Oil and life in the oceans of the world have become more and more entwined as the search for petroleum creeps over the Continental Shelf and on the ocean bottoms.

The American Petroleum Institute has funded Texas A&M University biologist Dr. Jack Anderson with \$95,000 this month to sound out possible ecological dangers to marine life as the search for energy accelerates.

relatively modest support for the athletic participation-educational aspiration hypothesis. Participation He has established a laboratory base on a Shell Oil Company Offshore production platform in the Gulf of Mexico. in high school sports does not constrain or hinder development of

Anderson plans to study the growth and reproduction of marine life over a long period by shuttling researchers from TAMU back and forth. This will introduce chronic petroleum types of pollution for extended periods

Biological studies on organisms from the Gulf are significant since this body of water receives more than two-thirds of the total dissolved chemical load discharge into the oceans from the Continental U.S. studies Also the Gulf supports large fisheries for shrimp, blue crabs, oysters, and several species of fish. Along with the studies of the ef-

fects of petroleum hydrocarbons, members of the research team will introduce experimentally heavy metals like mercury, cadmium and lead into various tanks to determine educational achievement values among high school youth. their effect on marine life

Annual Meeting and Engineering said by working together with the Exhibition of the Texas Society of EPA many problems can be over Professional Engineers at TAMU.

radar systems

Newton said.

lecting radar data or as a launcher of trieval, service and operation,

"The space shuttle will be a reus-

able truck for payload delivery, m

Cahill was speaking of the EPA's "Engineers have to stop com plaining and start lobbying,"he said efforts to cut red tape and begin building under the government's in an earlier press conference. \$18 billion federal waste water "The goals of the program areby

1977-78 to achieve secondary treatment for municipal wastewaters and by 1983 to achieve swimma ble and fish sustaining national waters," he said.

"But it's not going to get done without the help of the states, Cahill continued. "The EPA's budget has tripled since 1973 but the staff hasn't. So if these water projects are to get done a lot of the work has to be done on the local and state level.

"These projects have to move and show progress," he pointed out. "I they start running into trouble, con sulting engineers will be forced into competitive bidding and we cer-Picou and Ohio State University tainly don't want that.

"It would be like having doctors bid on your operation," Cahill said. "Professional engineering associations must see that this doesn't hap pen. Many feel this would socialize the industry and most professional would walk away from that kind o arrangement, leaving it to the dress of the profession.

The major task for Texas will be to obligate its \$240 million portion

some athletes who experience an of funds for waste water treatment facilities," he said. "But Texas ha done a magnificent job to date, s there is confidence in your ability to do so. As you will recall, based of the 1974 needs survey, it will take \$2 billion in Texas to raise treatment up to secondary or higher wherere quired by water quality.

Cahill also said that despite the state of the economy the EPA would not sacrifice environmental goals to provide jobs and stimulate the economy. He said that deadlines for environmental improvement might be extended but not discarded.

dependent effects of athletic par-Cahill further said that a move in ticipation on aspiration level, the underway to rid the EPA of deadwood and to keep it functional.

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magnitude of the relationship may be somewhat exaggerated. Further clarification of the role of high school athletics for social mobility could emerge from the 'Additionally, high school athletic competition and achievements may be more important for minority youths' mobility orientations and achievements," Picou said. At present, Picou is completing a study on the role that athletic suc-



