

The Battalion Classified

Engineers test solar-powered air-conditioning

The sensations of a desert blowing across a cool lake soon be brought into any building the result of research on solar-powered air-conditioning being developed by Texas A&M University engineers.

The areas of solar power are becoming increasingly competitive with conventional fuels (especially electricity) in other parts of the country. However, there is no "active" solar air-conditioning system that approaches any economic justification for installation.

A team of computer science, mechanical and electrical engineers in Texas A&M's College of Engineering are taking on the task of making solar air-conditioning a viable proposition.

This is an outgrowth of an evaporative cooler which has been used for decades in West Texas, explained Dr. Jeff Morehouse, chief of the principal investigator project. "The concept is to produce desert-like air and cool it by using an evaporative cooler."

"A desiccant (moisture-absorbent substance) is used to remove humidity from the air prior to the evaporative cooling," he said. "The energy is used to drive off the humidity in the desiccant so that it can be re-used to absorb more moisture. This could possibly be accomplished by burning natural gas or solar drying if insufficient solar energy is available."

"The components of the system are available; we just have to put out a continuous system of residential-sized units. But the application of things that are new but we'll just be doing so far."

"So far, small demonstration and big specialized systems have been developed, but no air-conditioner of a residential size has been produced," he said. "I think two or three tons of conditioning could be produced with \$2,000 to \$3,000 of investment. Spread out over several years this cost would be competitive with current air-conditioning."

"The analysis of desiccant systems should be completed later," Morehouse said. "Presently, a simple working model should be constructed for verification of the simulation as well as gaining actual operating experience with the equipment."

Freshmen begin corps activities during orientation

On campus a week ahead of the classmen, Corps of Cadets men at Texas A&M began their Sunday details of being a fish.

About 700 members of the class of '81 checked in for the program.

Corps seniors and juniors are acting as group leaders for Freshman Week, according to James R. Woodall, commander of the freshmen are doing things, and we've already done some things too, for use next year," Col. Woodall remarked.

"All in all, it is going smoothly. Everyone is meaning the cadre, know what we're doing," he added. The mandant and professor of science said a number of complimented the organization of the program.

Organized at battalion level, orientation week is entirely to make the fish's way to Corps life gradual, with Gentry said. "We're here after their needs," he said.

President Jarvis Miller and the FOW participants are along with Dr. John Kuhn, president for student services Gentry.

A Wednesday session of activities will feature Dr. Rod O. chemistry professor, and Scholastic Officer Mike H. of Paris. The fish were Monday by Gen. Ormond, assistant vice president of services, and Col. Woodall.

Other activities of the week include basic drill, military presentations on Texas A&M and the Bryan-College communities by John Adams, organized general preparatory trainings. A Wednesday fish and cadre only party is planned.

"The way I see it, the eager to learn," observed First Sergeant John V. San Antonio. "They're just finding their way," he said.

The fish will be released companies and squadrons Friday. Corps organization 1977-78 school year takes Saturday and Sunday. Freshmen Orientation last conducted at Texas A&M regular basis in 1954.

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Degree: Ph.D. in English
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Time: 9:00 AM on August 17, 1977
Place: Room 507 in Harrington E.C.
C. W. Kunze
Dean of the Graduate College

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Final Examination for the Doctoral Degree

Name: Hughes, Michael B.
Degree: Ph.D. in Chemistry
Dissertation: THE DEVELOPMENT AND USE OF A TROCHODAL ELECTRON SPECTROMETER FOR IN-BEAM E-R COINCIDENCE MEASUREMENTS.

Time: 10:30 AM on August 17, 1977
Place: Room 221 in the Cyclotron Bld.
C. W. Kunze
Dean of the Graduate College

THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree

Name: Bushway, Rodney John
Degree: Ph.D. in Biochemistry
Dissertation: GROWTH, MACROMOLECULAR SYNTHESIS, AND ORGANOPHOSPHATE INSECTICIDE METABOLISM IN DICTYO STELIUM DISCOIDEUM EXPOSED TO INSECTICIDES AND ULTRAVIOLET LIGHT.

Time: 9:30 AM on August 18, 1977
Place: Room 308 in Reed McDonald Bldg.
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Dean of the Graduate College

THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree

Name: Paczkowski, Walter Richard
Degree: Ph.D. in Economics
Dissertation: JOB SEARCH, VACANCIES, AND STOCHASTIC LABOR FLOWS: A QUEUEING THEORY OF THE LABOR MARKET.

Time: 10:00 AM on August 19, 1977
Place: Room 446 in Harrington E.C.
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The Student Finance Center

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