A third research flight over he waters off the Mississippi elta by Texas A&M space canographers is scheduled Mon-

A&M scientists are in the idst of a study to learn ways f conducting oceanographic rearch from space. The research funded by the U.S. Naval ceanographic Office in conjuncon with NASA's Earth Reurces Program.

Technically, it's a part of the pollo spacecraft applications

Under one phase of the project, searchers are seeking to deternine what happens to Mississippi iver water when it enters the fulf of Mexico. Long-range reults may produce new informaion affecting fishing, sedimentaon and buildup of the delta.

DR. DALE LEIPPER, project ad, expressed hopes for good weather for the flight which will riginate in New Orleans. The ality of information gathered uring the second flight, an Octoer mission, was seriously affected by bad weather, he said.

Among the changes from earliflights will be lower level sses for taking pictures. Phoographs will be made from 1,000 eet or less altitude, at least 500 eet lower than in the initial ight July 7.

Dr. Guy A. Franceschini, oceanraphy and meteorology rearcher for A&M, and Jim Arold, a graduate student in neteorology under Dr. A. H. hompson, will conduct the reearch for A&M.

Dr. Franceschini is attempting develop a method of obtaining true picture of sea surface temeratures although there may be tervening clouds between the plane and the ocean.

ARNOLD IS interested in cloud attern relationships to ocean

Approximately six tons of histicated scientific equipment aboard the Convair 240 air-

Project coordinator Don Walsh, ho is writing his master's thesis out the research, said results lower-level flights may include tter infra red measurements oser to actual temperatures at ound level. Checks will be ade with surface vessels to veridata obtained from the air.

Other photographs will be shot from 50,000 feet to give an overall view of the area and aid in future development of instrumen-

If the A&M research is successful in proving that oceanographic research can be accomplished from the air, additional research may be conducted from Apollo spacecraft in outer space.

SAC Officer **Describes Use** Of Computers

Col. William Ratchford of the Strategic Air Command Headquarters at Omaha, Neb., told the Society for the Advancement of Management and the Association of Computer Machines that SAC is highly computerized.

Ratchford's topic was "Management Systems and Data Processing." As an introduction he showed a 20-minute film that he classified as "a slight bit of propaganda." The movie showed how SAC combat readiness is maintained to cope with any possible defense threats.

Computers are used by SAC for a variety of things, one of the most important being the analyzation of SAC strength as compared to the strength of our

The communication system of SAC is complicated and vast. Direct telephone communication is maintained at all times with the President as he is the only person who can authorize the detonation of nuclear weapons.

Col. Ratchford explained the set-up of the SAC Control System with a series of slides. The system is manned by 375 people with an annual payroll of \$2,800,-000. Ratchford noted that most of this has happened since 1956.

The mission of the SAC Control System embodies four parts: Force Control, Reconnaissance, Force Management, and Future Force Structure.

Four Air Force officers who are experts in the field of computers accompanied Ratchford and answered questions from the more than 100-member audience

after the formal presentation.

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fascinating student with the arch smile. And what's in that curious green bottle that's making such

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ebullient character of Sprite has set you apart.

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"Stanford's Mark III accelerator can 'see' an atomic nucleus." DuMond pointed out. "The two mile accelerator can pick out a proton, a particle inside an atom



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Oceanographers To Research Atom Smasher Described

largest atom smasher and super high-power microscope involved sandwiching 80,000 four - inch rings and discs into a tube two

Dr. Jesse W. M. DuMond, California Institute of Technology physics professor, Tuesday night gave a Texas A&M Graduate College lecture audience insight into the construction and working fundamentals of Stanford's two-mile linear accelerator.

Dr. DuMond served as a consultant for optical alignment of the 10,000-foot research facility. A physics student of his at Cal Tech, Dr. W. K. H. (Pief) Panofsky, is now director of the Stanford accelerator and Dr. Du-Mond's son-in-law.

tube, forming waves on which injected electrons ride at less than 1962 VW, good engine and tires, harness seat belts, new battery, 846-3286. 379t2 one per cent below the speed of

"Panofsky says relativity is no longer a theory," the National Academy of Sciences veteran related. "It's engineering, otherwise the accelerator wouldn't

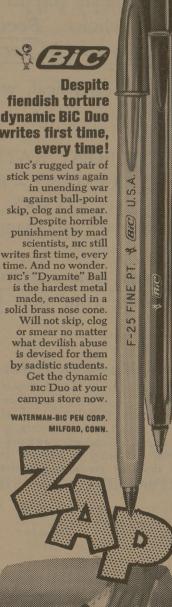
"The SLAC accelerator operhe described. "At 360 pulses a 1/120th of a second—the instrument generates heat so fast in a cubic centimeter of tungsten that it's broken in three pieces."

THREE LARGE magnetic spectrometers in the multiple-structured switching yard will be used to study targets scattered when placed in the electron beam, Du-Mond added.

He said the accelerator is also "a super high power microscope."

Electron microscopes "see" objects the size of a virus, made up

ALIGNMENT OF the two-mile



one millimeter was one of the remarkable engineering feats performed in constructing the SLAC facility, the professor went on.

He described a diffraction grid utilized, since radiation blackens glass or plastic lenses. Alignment was achieved by moving a 24-inch aluminum support tube by means of screw jacks at 299

"The curvature of the earth in two miles is 11 centimeters," the physicist noted.

"I suggested to Pief once they shouldn't stop at two miles," Du-Mond humorously commented. "I told him he should put one end of an accelerator at Stanford and the other at Cal Tech, where we

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(Stanford Linear Accelerator Center) facility," Dr. DuMond commented. "I'm proud of the fact that he got it built in six years, inside the estimate."

The huge research instrument pulses electrical energy at 24,000 kilowatts peak power into the tube, forming waves on which in-

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Rev. R. L. Jackson, the speaker for the "Jackson Radio Hour" Sunday mornings at 8:30 over WTAW, will pay a brief tribute to Mr. and Mrs. P. L. (Pinkie) Downs, Jr. this Sunday morning. All are invited to listen. Pinkie Downs is best known as "Mr. Aggie." Tune in Aggies.

381t1 THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Lonnie Benard
Degree: Doctor of Philosophy in Biochemistry
Dissertation: Metabolism of Strontium
Time: December 14, 1966 at 2:15 p. m.
Place: Room 114 in Herman Heep Bldg.
Wayne C. Hall
Dean of Graduate Studies 381t2

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Wiff, Donald Ray
Degree: Ph.D. In Physics
Dissertation: An Electronic Energy Band
Calculation of Cubic Boron Nitride Via
the Augmented-Plane-Wave Method
Time: December 14, 1966 at 12:00 p. m.
Place: Room 146 in Physics Bldg.
Wayne C. Hall
Dean of Graduate Studies 381t2

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Gaul, Roy David
Degree: Doctor of Philosophy in Physical
Oceanography
Dissertation: Circulation over the Continental Margin of the Northeast Gulf of
Mexico

Cleo : December 14, 1966 at 3:00 p. m. : Room 209-C-B in Goodwin Hall Wayne C. Hall Dean of Graduate Studies 381t2

THE GRADUATE COLLEGE
inal Examination for the Doctoral Degree
ame: Hoyle, John Richard
egree: Doctor of Philosophy in Education
issertation: Problem-Attack Behavior and
its Relationship to the Sex, Prior Teaching Experience, and College Preparation
of Selected Elementary School Principals,
ime: December 14, 1966 at 2:00 p. m.
lace: Room 404 in Academic Bldg.
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"NATIONAL DEFENSE EDUCATION ACT STUDENT LOAN APPLICATIONS for the Spring Semester, 1967, are available in the Student Financial Aid Office during the period December 8, 1966 to January 20, 1967 for students who are qualifying to teach."

THE GRADUATE COLLEGE
Final Examination for the Doctoral Degree
Name: Buhr, Johann Hermann
Degree: Doctor of Philosophy in Civil
Engineering
Dissertation: Freeway Entrance Ramp
Merging Control Systems
Time: December 12, 1966 at 3:00 p. m.
Place: Room 15 in Highway Research
Center

THE GRADUATE COLLEGE inal Examination for the Doctoral Degree ame: Smith, William Boyce egree: Doctor of Philosophy in Statis-

regation: Parameter Estimation in the esence of Incomplete Sets of Succicient atistics:
December 13, 1966 at 3:00 p. m.
Room 102 in DPC-Statistics Bldg.
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Those undergraduate students who have 95 semester hours of credit may purchase the A&M ring. The hours passed at the time of the preliminary grade report on November 14, 1966, may be used in satisfying the 95 hour requirement. Those students qualifying under this regulation may leave their names with the ring clerk in the Registrar's Office in order that she may check their records to determine their eligibility to order the ring. Orders for the rings will be taken between November 28, 1966 and January 4, 1967. These rings will be returned for delivery on or about February 15, 1967. The ring clerk is on duty from \$100 a, m, to 12:00 noon, Monday through Friday of each week.

H. L. Heaton, Director of Admissions and Registrar 365t20

The 1966-67 official directory of offices staff and students is now available. You may send your orders (interdepartmental orders, etc.) to the Student Publications Office, YMCA Building. The price is \$1.00 per directory.

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