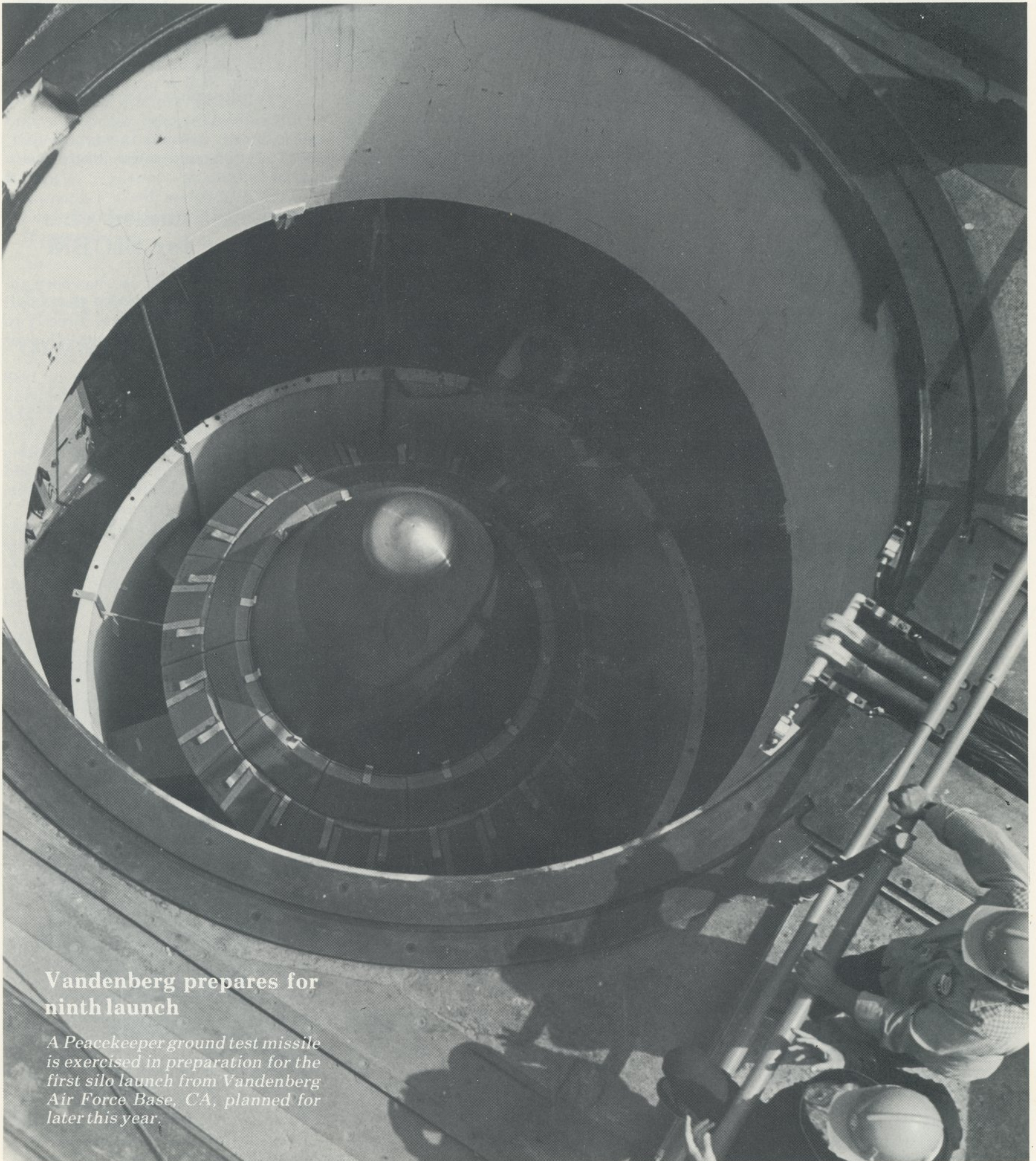


July 26, 1985

Number 15



**Vandenberg prepares for ninth launch**

*A Peacekeeper ground test missile is exercised in preparation for the first silo launch from Vandenberg Air Force Base, CA, planned for later this year.*

## News briefs

### Space launch systems wins propulsion system study

The Air Force Rocket Propulsion Laboratory (AFRPL) at Edwards Air Force Base, CA, has awarded space launch systems a small but key systems technology contract for a low-cost expendable-propulsion study.

This contract is closely related to the space transportation architecture study (STAS) that SLS is proposing. The architecture study is jointly sponsored by DOD and NASA and will define and select launch systems to support SDI, space station, and other future space logistics needs. ■

### Sterhardt named vice president for SICBM

James A. Sterhardt, Jr., has been appointed vice president for the small ICBM program. He reports directly to Peter B. Teets, president, Denver Aerospace.

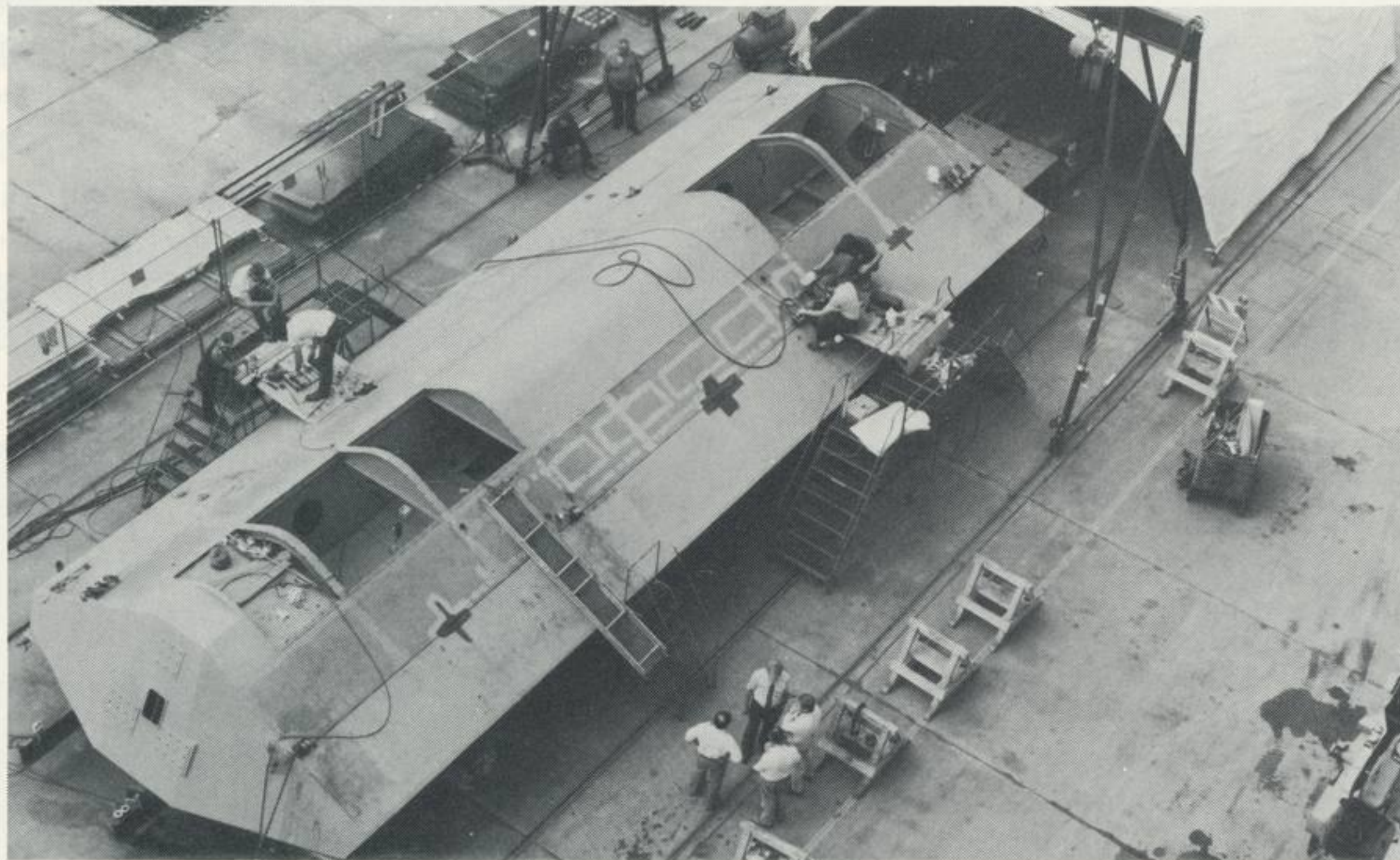
Sterhardt joined the company in 1948 at Baltimore, MD, and successively became manager of structures and materials research for Denver Aerospace, and manager of vehicle systems on the Viking project. He also held management positions on the Peacekeeper program beginning in 1976.

He was appointed program director for the Peacekeeper design and critical test program, and he then became responsible for the total program effort, Phase I studies, and Phase II critical tests.

Most recently, Sterhardt was vice president and program director for the small ICBM proposal effort. ■



Sterhardt



### Missile module readied for demonstration

Missile module for the SICBM hard mobile launcher gets some finishing touches at Baltimore Aerospace before shipment to Caterpillar Tractor Company in Peoria, Illinois last week. At Caterpillar, missile module will be completed and mated to the crew module, and the complete mobility test vehicle will be ready for initial demonstration in September. Caterpillar is a subcontractor to Martin Marietta in a competitive contract to design and demonstrate a full-scale hard mobile launcher.

## Air Force awards study contract for SICBM launch control system

Martin Marietta Corporation has been awarded a contract by the Air Force to study a launch control system (LSC) for the small intercontinental ballistic missile (SICBM).

Martin Marietta's Information & Communications Systems (I&CS) company is one of three contractors chosen by the U.S. Air Force's Ballistic Missile Office at Norton Air Force Base, CA, to conduct parallel 15-month, \$2 million studies. When the studies are complete, one contractor will be chosen for the six-year full-scale development program.

Under the contract, Martin Marietta will perform a concept definition and validation study of the SICBM launch control system. The system will include all hardware and software required to support the command and control, launch operations, security, and maintenance of the weapon system. The study will focus on complete definition

of system requirements; allocation of requirements to hardware, software, and personnel; refinement of launch control system concepts; and overall system and interface definition.

Martin Marietta has teamed with Logicon, Inc. of San Pedro, CA, and Harris Corp of Melbourne, FL, in the effort. If selected for full-scale development, Martin Marietta will be the total launch control system integrator, Logicon will be responsible for operational software, and Harris will be responsible for the communications architecture.

The competing contractor teams are headed by Boeing Aerospace Co. and Ford Aerospace Co.

Martin Marietta has been involved in development, manufacturing, and deployment of the nation's ICBM forces for more than 20 years. ■

### Medical Quality Circle schedules new times

Members of the Medical Quality Circle have announced a new schedule for health care service:

- 6:30 a.m.—11 p.m., Monday through Friday
- 7 a.m.—3 p.m., Saturday

Susan Toughill, RN, is on duty during these hours. Other mem-

bers of the quality circle are Toni Miskulin and Margie Maska, practitioners, and Kimberly Heseltine, summer intern.

The office (ext 7-4676) is located at Waterton in the Engineering Building on the mezzanine next to the factory.



### Martin Marietta supports collegiate program

*Richard Weber, left, vice president of personnel and facilities, presents a \$10,800 check from Martin Marietta to Lorenzo Tovar, executive director of the Denver Chapter of INROADS, Inc. INROADS is a collegiate assistance program that places heavy responsibility on students to excel both in the classroom and in a business environment. Martin Marietta's gift supports four student interns who began working in June 1985 (three in engineering and one in business).*

## Department of Defense directs clearance reduction program

Secretary of Defense Caspar Weinberger directed a significant reduction in the number of persons cleared for classified, secret, and top secret access in the Department of Defense and defense industry.

All cleared contractor facilities were directed to review immediately all existing clearances and every pending request for clearance and to terminate those no longer essential for contract performance. Once the clearance reduction is achieved, the numerical ceiling of clearances cannot be exceeded.

The purpose of the action, according to the DOD, is to eliminate a serious security vulnerability. "Too many persons are cleared and are being cleared who do not have a need for access to classified information," according to a DOD statement.

All Denver Aerospace departments

began reviewing existing clearances in early July to identify those not absolutely essential for contract performance.

The location for rebadging of employees is in the Engineering Building, room 201A, and takes place between 8 a.m. and 3 p.m., Monday through Friday. Rebadging will occur at DSC, MIC, DSC-1 on August 5; at GCF, 8100 presentation room on August 7; and at LSC, room 107 on August 9, also from 8 a.m. to 3 p.m.

Security advises that the administrative downgrade of a security clearance does not adversely reflect on an employee. If an employee's security clearance is downgraded, it can be reinstated within the following 24 months. The reinstatement must be based on a need to know. ■

## Company ads cited for recognition value

For the fourth consecutive six-month period, Martin Marietta's Leonardo da Vinci-style ad series finished first in the Harvey Communication Measurement. McGraw-Hill uses the measurement to determine recognition and retention of advertising in Aviation Week and Space Technology Magazine.

The spring survey reported 88 percent

of Aviation Week readers recalled seeing the ads, and 37 percent said they had read them. Those figures compare with an average of 56 percent seeing an ad and 21 percent reading it.

Three more ads should appear this fall. The da Vinci-style series has been running for seven years. ■

## New program to use video classes

This fall employees may obtain master's degrees in electrical engineering and computer science through a combination of videotaped and on-campus classes, with the possibility of live television classes.

The University of Colorado at Boulder has established the Center for Advanced Training in Engineering and Computer Science (CATECS) program to provide industry with state-of-the-art classes. The advantages of the program include the opportunity to interact with professors and students on campus, saving time by not commuting to campus, and the option of video recording for employees who travel on company business.

This fall the CATECS program offers 15 courses in finance, computer science, and electrical, computer, and mechanical engineering. Tuition for each three-hour course is \$375. For each student Martin Marietta pays an additional \$375 participation fee directly to the university.

Students are encouraged to register as soon as possible. Registration is officially due August 16. Applications for Study under Company Auspices must reach educational services by Aug 16.

For more information, call educational services at ext 7-5698. ■

## Seminars to cover work life at Denver

The Commitment to Excellence program includes a variety of activities to emphasize quality of performance and work life at Denver Aerospace.

Central to the program are the ideas of Dr. W. Edwards Deming and his colleague, Dr. Joseph Juran, men whose teachings have strongly influenced the management of major U.S. and international companies.

The effectiveness programs department plans to present a series of noon-time seminars, featuring the work of Drs. Deming and Juran. Each session will last 45 minutes and will include approximately 30 minutes of videotape of the Deming and Juran lectures, and 15 minutes of discussion.

If interested in attending these "brown bag" seminars, employees may contact the department by phone at ext 7-6104, or send a note to mail stop 1005, and include name, location, mail stop, and extension. ■



### 7-HELP desk ready to assist employees

Mary Shorba, left, takes an average of 100 service request calls each day on such things as equipment and utility failures, typewriter repairs, and heating and air-conditioning problems. Georgia Kasmiskie distributes the requests to building maintenance supervisors and the proper craftsmen. The HELP desk can be reached at ext 7-4357 (7-HELP) from 6:30 a.m. to 3 p.m. For emergencies after 3 p.m., call security, ext 7-4646.

## Company to study method to automate space station power

Martin Marietta has been selected by NASA to study methods to automate the power distribution system for the proposed space station.

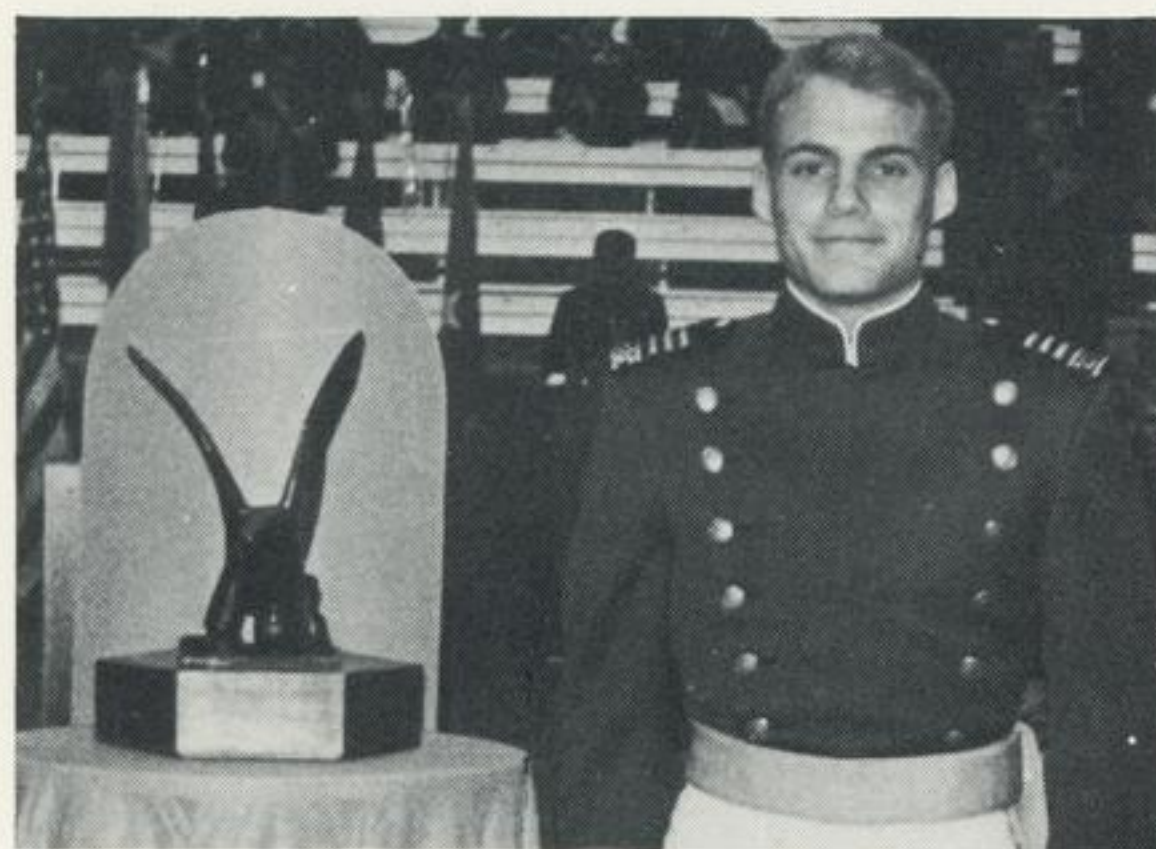
The \$625,000, 28-month contract was awarded June 21 by NASA's Marshall Space Flight Center, Huntsville, AL. Under the "Automation of Common Module Power Management and Distribution Systems," the company will define both the hardware and software for an automatic monitoring system to regulate and control power distribution aboard the space station.

The system will be able to supply, reduce, or cut off power to various elec-

trical systems by priority. It also may be able to diagnose power system problems and failures and recommend solutions to the space station crew. For example, it might inform the crew of a short circuit or dead battery and suggest a course of corrective action.

An automated power distribution system will enable more economical and efficient use of the space station's electrical power supply from a solar energy system. Martin Marietta also is involved in a related contract to study switching gear for the space station power system. ■

## Cadet earns award sponsored by Denver Aerospace



Cadet Porter

Cadet First-Class Scott D. Porter has been named the outstanding cadet in economics for the class of 1985 at the U.S. Air Force Academy in Colorado Springs.

The award is sponsored by Martin Marietta Denver Aerospace in memory of Major Arthur L. Moxon, class of 1968, and recognizes Porter for demonstrating sustained excellence in his economics courses. Gareth D. Flora, vice president, business development, presented the award at the recent ceremony. ■

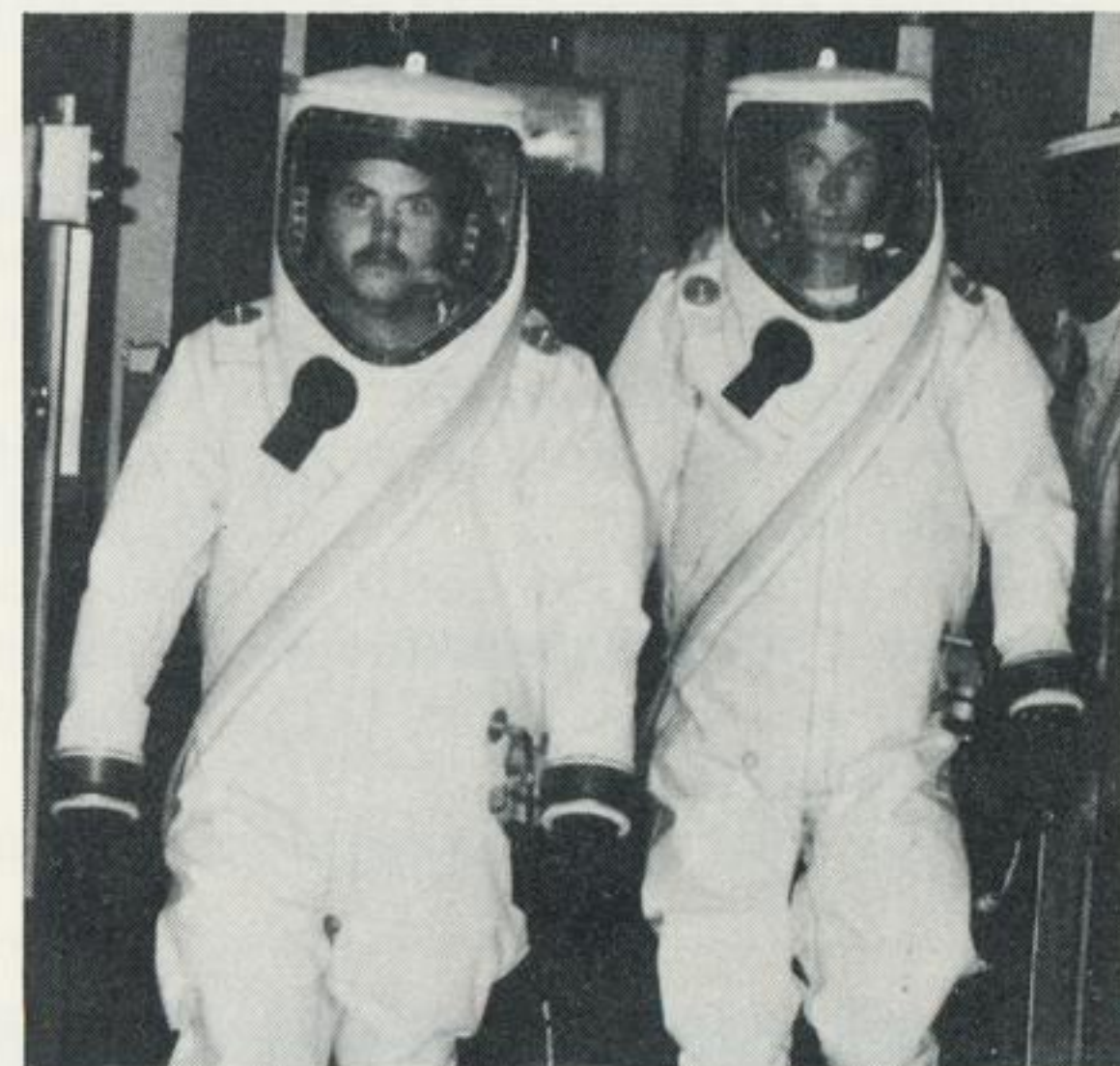
## Fuel flow test marks milestone for shuttle site

The hypergolic fuel used to launch the space shuttle successfully passed its first test in June at space launch complex-6 (SLC-6) at Vandenberg Air Force Base, CA.

Better known as a "hot flow," the ground systems test has assured compatibility of checkout cell hardware to hypergolic fuels.

The critical test involved flowing hydrazine from the checkout cell about 250 feet to the waste vault area. From there it flowed into the vapor separator tank, and then was pumped into the 28,000-gallon capacity hazardous waste tank.

According to the Martin Marietta test conductor, the concerted effort between Martin Marietta crews and the Air Force enabled a thorough and successful systems test, nearly one week ahead of schedule. ■



Test crew members wear SCAPE (self-contained atmospheric-protective ensemble) suits to perform the hot flow test. The test took the 30-member crew about eight and one-half hours to complete.

### MARTIN MARIETTA NEWS

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Editor: Jan P. Timmons

MARTIN MARIETTA

Call Ext. 5364 with information or suggestions for articles, or call one of the following coordinators.

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Photography by Pat Corkery

DENVER AEROSPACE  
P.O. Box 179—Denver, CO 80201

July 26, 1985



#### Dept of Treasury commends savings bond leaders

Dennis Cook, far left, personnel director, and Leroy Hollins, far right, recreation/employee services, receive congratulations from Earl Stewart, second from left, area manager, and Frank Strahota, center, area director, both from the U.S. Dept of Treasury—Savings Bonds, and from Peter B. Teets, president, Denver Aerospace. Cook and Hollins received an award for their efforts in the successful Savings Bond drive. The recent drive increased employee participation more than 16 percent.

## Denver Aerospace wins KEW study; organization changes announced

The Air Force Space Division has selected Denver Aerospace to conduct a concept definition study of the kinetic energy weapon (KEW), as part of the government's Strategic Defense Initiative. The one-year contract is valued at \$8 million.

As a result of the contract award, a number of organizational changes have been announced, all effective immediately.

Richard W. VandeKoppel has been

appointed KEW program director, a new position in space systems. He will report directly to Morris H. Thorson, vice president, space systems.

Raymond F. Schwindt has been appointed director of engineering operations for space systems.

Thomas C. Williams has been appointed director of test in technical operations, reporting to Warren G. Beery, vice president, technical operations. ■



#### Management supports quality circle's suggestions

Members of the Spares Support Group Quality Circle presented ways to improve productivity by reducing noise levels, controlling traffic flow, and reducing interruptions in their area. They made the presentation to their management on July 12. Members of the team seated, left to right are Brian Leslie, Rance Tallent, Leonard Dignard, William Lindemann. Standing, left to right, are Harry Wheedon, William Spinner, team leader, Philip Ashton, and Augusto Neira. The team's management said they're committed to help find ways to improve the area.

## JA program in jeopardy

The Junior Achievement (JA) program is in trouble as a result of a change in insurance policy. Junior Achievement can no longer buy insurance to compensate for injuries if advisers or students get hurt using power tools or equipment.

This has resulted in dismantling all local JA shops. High school pupils now must make their products from kits purchased in hobby and craft stores or through mail order catalogs. This limits selection and creativity for the 50 or so JA companies that form twice a year.

JA advisers seek crafts people with home woodworking shops, metal and plastic shops, seamstress capability, or ceramics workers who would be willing to make semifinished products or "kits" in their homes for purchase by JA companies.

This will allow adult advisers such as those employees from Martin Marietta, Gates Rubber, and Coors to contact the crafts people.

Junior Achievers then would make final touches, assemble, and sell the parts as finished products.

If employees are interested in making and selling "kits" to a JA company, telephone Bob Duncan at the Gates Rubber Co, 744-5394, Monday through Friday, between 7:30 a.m. and 3:30 p.m., or contact John Lincoln, ext 7-6121, for additional information.

"Time is short and we need help," Duncan said. "Adult advisers all over the city have begun to plan the products their JA companies will produce."

## PSP values

Unit values for the Performance Sharing Plan (PSP) for June follow, with May figures in parentheses for comparison:

- Fund A (indexed equity)  
2.8814495500 (2.8286214521)
- Fund B (fixed income)  
2.1616482170 (2.1406679827)
- Fund C (company stock fund)  
3.8410866311 (3.8458821863)
- Fund D (TRASOP)  
1.5086252609 (1.5117599263)



### Supervisory training instructors praised for extra efforts

Tom Marsh, seated, second from right, director of the precision development center, and Lee Abbey, seated, far right, manager, Corporate training and development organization, congratulate instructors for efforts (in addition to their regular workload) in a supervisory training program called Impact. 180 supervisory-level employees have completed the five half-day sessions. Seated, left to right, are John Greenwood, Barbara Weightman, Marsh, and Abbey. Standing, left to right, are Edward Rodriguez, Gary Hinds, Dale Haberkorn, and Robert Bassett. For more information on Impact, call Barbara Weightman, ext 7-6303.

## Recreation/ employee services

**Football**—Tickets for the Denver Broncos vs the New York Giants at Mile High Stadium on August 10 are available from the recreation office, Eng Bldg 124G, or by mail order forms located in recreation racks. Tickets cost \$19.25.

**Archery**—Meetings of the Red Rock Bowmen club are held on the second Tuesday of every month at 4:45 p.m. in the recreation club house behind the softball fields near the main plant. For more information on upcoming events and club memberships, contact the following representatives:

- EPL—Eric Hoffer, ext 7-5391
- EMF—Duanne VanDeVenter, ext 7-4026
- LSC—Dan Laurich, ext 7-0456
- ASC—John Phelps, ext 7-8853

**Hiking**—The Alpine Club plans a Longs Peak day hike on August 3, and a Mt. Holy Cross backpack on August 10. Contact Jim Williams, ext 7-7214.

## Wellness week offers tips on fitness

“Wellness Week '85” will offer seminars and screening tests for employees interested in improving physical, emotional, and mental well-being.

Topics will include nutrition, high blood pressure testing, handling stress, smoking cessation, and aerobics demonstrations. The seminars will run from August 5-9 and August 12-17.

### Schedule for August 5-9:

- Aug 5—Greenwood Commons
  - Blood pressure testing, 10:30 a.m.—1 p.m., conference room, Bldg 6130
  - Nutrition seminar, Rosanne Glover, company nutritionist, 10:30 a.m.—1 p.m., conference room, Bldg 6090
- Aug 6—Eng Bldg, Waterton plant
  - Blood pressure testing, 10:30 a.m.—1 p.m., presentation room
  - Nutrition seminar, Glover, 10:30 a.m.—1 p.m., executive dining room II
  - Smoking cessation, Cathy Cory from St. Lukes Hospital, 11 a.m.—1 p.m., room 234
- Aug 6—DSC
  - Stress and relaxation techniques, Dr. Michael Uhes and Suzette Cowles, RN, from the Human Performance Institute, 7-9 p.m., brown bag room

- Aug 7—DSC
  - Blood pressure testing, 10:30 a.m.—1 p.m., room 200K
  - Nutrition seminar, Glover, 11 a.m.—11:25 a.m. and noon—12:25 p.m., room 200A
  - Smoking cessation, Cary, 10:30 a.m.—10:55 a.m., 11:30—11:55 a.m., 12:30—12:55 p.m., room 200A
  - Smoking cessation, 7-9 p.m., brown bag room
- Aug 8—LSC
  - Blood pressure testing, 10:30 a.m.—1 p.m., room 104
  - Nutrition seminar, Glover, 10:30 a.m.—1 p.m., room 207
- Aug 8—DSC
  - Aerobics demonstration, Inverness RacquetWorld instructors, 7-9 p.m., brown bag room
- Aug 9—SSB
  - Blood pressure testing, 10:30 a.m.—1 p.m., 6th floor presentation room and EMF conference room
  - Stress seminar, Dr. Ed Dash, educational services, 11-11:25 a.m., noon—12:25 p.m., 6th floor presentation room
  - Nutrition, Kathy Aeyl from Nutrition Network, 10:30—10:55 a.m., 11:30—11:55 a.m., and 12:30—12:55 p.m., 6th floor presentation room

### Schedule for August 12-17

- Aug 12—LSC
  - “Hows and Why’s of Fitness,” Billy Glisen, athletic director of Inverness RacquetWorld, 7-9 p.m., room 107
- Aug 13—LSC
  - Stress and relaxation techniques, Uhes and Cowles, Human Resource Institute, 7-9 p.m., room 107
- Aug 14—LSC
  - Smoking cessation, Cory, St. Lukes Hospital, 7-9 p.m., room 107
- Aug 15—LSC
  - Aerobics demonstration, Inverness RacquetWorld instructors, 7-9 p.m., cafeteria
- Aug 17—site to be determined
  - Hydrostatic weighing, Glisen, Inverness RacquetWorld, 9 a.m.—2 p.m., preregistration only, \$12.50 person

All daytime seminars will occur every 30 minutes unless otherwise stated on the schedule (e.g., 10:30—10:55 a.m.)

Spouses and family members (16 years and older) are welcome to attend evening seminars, after obtaining security badges at guard entrances. They must be escorted at all times by an employee.

Call Sue Edstrom for further information, ext 7-6750.