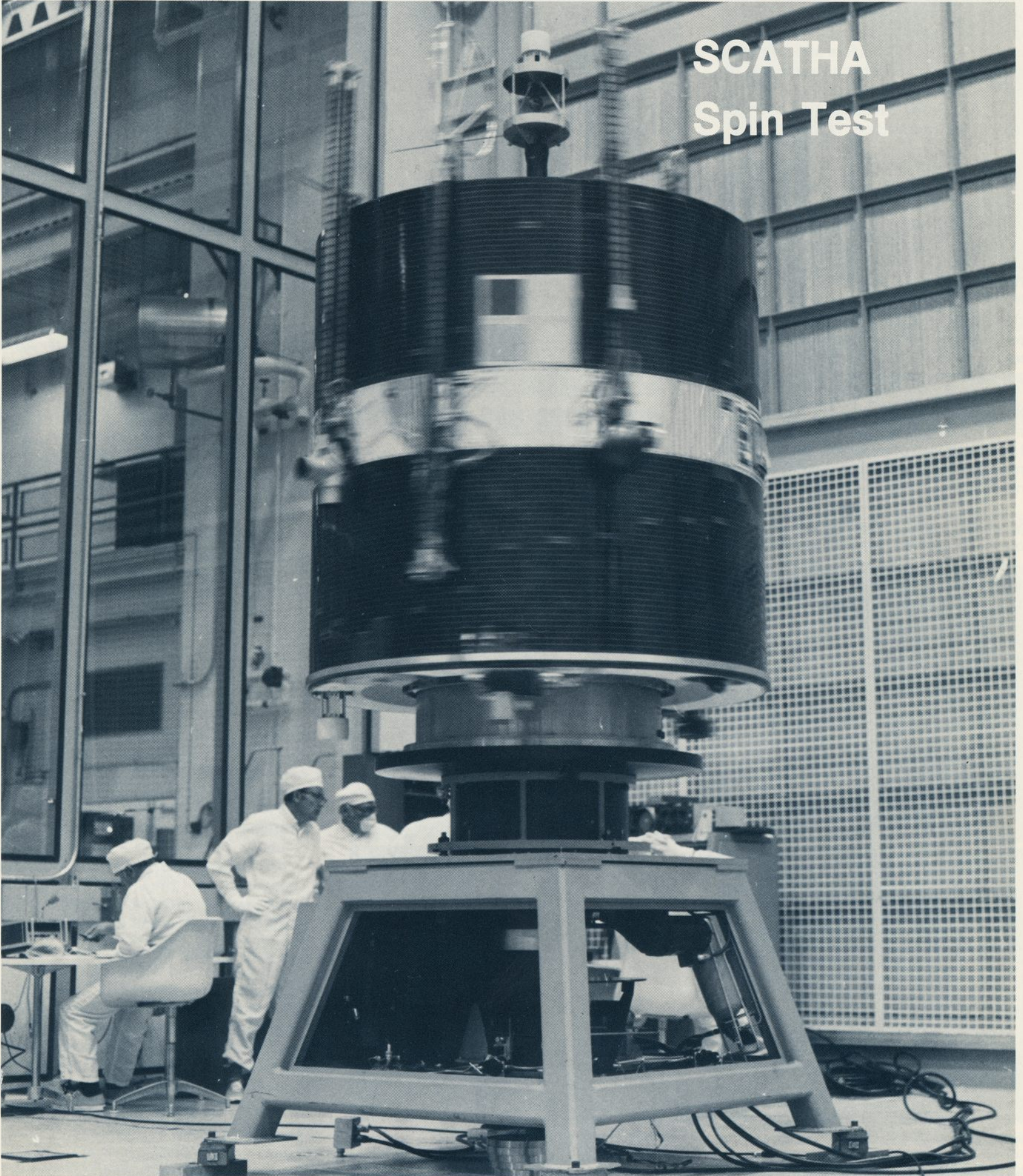


NUMBER 15/1978

SCATHA  
Spin Test



## CIS gets two contracts at Nellis AFB

Two contracts—one that continues work and one for new work—have been awarded the division by the Air Force.

The contracts will be managed in the division's command and information systems department by W. Raymond Herbert, director of electronic warfare and communications systems. Both contracts are for work for the 57th Tactical Training Wing of the Air Force Tactical Air Command at Nellis Air Force Base, NV.

A \$2.55 million engineering, operation, and maintenance contract continues work being done at the Nellis Air Force Base. Division employees will maintain instruments that help provide realistic training for Air Force pilots at the Nellis training range. Under the contract, engineering will be done on new instrumentation as range requirements change. The contract also calls for software and general engineering support for the range. The contract runs until September 30, 1979.

The second contract, worth slightly more than \$1 million, calls for production of 34 modular instrumentation package systems (MIPS). Work will be completed in nine months.

The MIPS are replacements for the ground equipment instrumentation now in use. Heart of the new equipment is a microprocessor, making the new modules smaller and more flexible, and giving the instrumentation more computer capacity. The MIPS can be used for range communications, a capability not available in equipment now used.

### Martin Marietta to sponsor PBS program

*Wall Street Week*, the popular economics and investment program on public television will be underwritten by the Martin Marietta Corporation starting November 17.

Produced by the Maryland Center for Public Broadcasting, the program consistently has one of the highest viewer ratings on the PBS TV network.

*Wall Street Week*, hosted by Louis Rukeyser, may be seen on KRMA-TV, Channel 6, at 8:30 pm each Friday.

## Martin Marietta to adhere to President's wage-price standards

Regarding President Carter's wage-price standards, Martin Marietta operating company managements have been given the following guidance by the Corporation's president, Thomas G. Pownall:

"Martin Marietta Corporation intends to adhere to the price and wage standards announced by President Carter on October 24, 1978. Detailed data and specific guidelines for compliance will be promulgated as soon as possible, probably within the next two weeks. Until details of the President's program are fully established and understood by us as they apply to Martin Marietta, any deviation from our intent as expressed in this memorandum will require my approval. In this connection, since we do not know how these standards apply to price increases announced but not implemented prior to October 24, these should be reviewed with this office prior to the effective date."

## Employees use new second-opinion part of insurance

More than one-fifth of eligible Martin Marietta employees and their dependents have taken advantage of a pilot program in Denver that permits a second opinion in the case of elective (not emergency) surgery. A third of those who sought a second opinion were able to postpone or avoid elective surgery.

Since May, employees and dependents who receive medical services in the Denver area have been eligible for a second surgeon's opinion. This addition to the company's medical plan is part of an expanding pilot program developed by Connecticut General Life Insurance Company to contain rising health care costs while fostering quality medical care.

Under the program, employee or dependent consultation with another surgical specialist and any diagnostic tests required by the consulting physician are covered by the medical insurance plan at no additional cost to the employee.

"A major advantage of the second surgical opinion," said R. E. Weber, director of professional and industrial relations, "is that it gives employees peace of mind by providing assurance that the surgery is indeed required, or relieves anxiety when surgery can be avoided or postponed without risk to the patient."

Connecticut General has made arrangements with a panel of consulting surgeons to perform the consultations for Denver employees and dependents.

## On the cover

The SCATHA spacecraft is shown in the spin test at NASA's Goddard Space Flight Center in Maryland. The spacecraft, shipped from Denver less than a month ago, will be tested at Goddard before being readied for launch in early 1979.



Roland J. Booth, left, and James A. Sterhardt, right, discuss the recent successful test of the Missile X breakout and erection system. In presenting a Spot Award to Booth, Sterhardt said Booth's "... performance was a dominant factor in the success of the test." Booth supervised the subassembly and assembly of the breakout and erection test article at the Stoval Field test site near Yuma.

"After elective surgery has been recommended," Weber said, "the employee dependent may initiate a second surgical opinion by contacting the division insurance office. The office will help arrange the consultation. Patients and families can better judge whether the operation is needed after the consultation. In any event, the employee or dependent retains the right to make the final choice: Either to undergo surgery or to accept some other, nonsurgical form of treatment."

"The program is a good one for employees and for society in general," Weber said. "The program helps us all by assuring that hospital facilities are put to their best use, which is the case when needless surgery is eliminated. Second surgical opinions can help improve the quality of care and assure that hospital cost increases are justified. This is important in view of the almost daily reports of skyrocketing medical care costs—increases that ultimately affect us all."

"We are convinced that something must be done to hold down these costs and are pleased that Connecticut General already has programs with the same objective. The pilot programs, still in the early stages, began in Hartford and then expanded to Denver. As the programs expand further, other employee groups will be brought into the program."

Information on the company's participation in the program may be obtained from the insurance office, ext 3009.

## Satellite distribution center concept announced

A new materials distribution system for the Denver Division will begin on December 1, 1978.

Developed by plant operations to improve the distribution of office supplies and other material, this system uses secure holding areas called *satellite distribution centers* at key division locations. Materials will be held in these centers until signed for by authorized personnel on the dates and times scheduled by plant operations.

This is in contrast to the current system of uncontrolled storerooms where materials are picked up at random and without acknowledgment.

Hank Wilmot, manager, materiel operations, said the *satellite distribution center* concept will yield many advantages. "The new system will control material so it will be given only to those who ordered it," said Wilmot. "This also means that the span time between order and delivery will be improved, and we will be better able to keep track of our commitments." The centers will also provide improved inventory control, said Wilmot.

Center locations are planned for Research and Development Laboratory, Denver Systems Center, Space Support building, Engineering building, and West Point.

A detailed plan of delivery schedules and *satellite distribution center* locations will be issued before December 1, 1978. For further information, contact Wilmot on extension 5578.



The Denver Art Museum's 40-foot ARTREK exhibit will be at the Denver Division November 27-29. The exhibition features *The Natural Source*.

Arrangements for the van's visit were made by Fitzroy Newsum, the public relations department's manager of civic liaison. The van will be parked near the engineering building.

## ARTREK to be here on November 27-29

ARTREK, the Denver Art Museum's 40-foot art van, will be at the Denver Division Monday, November 27, through Wednesday, November 29.

The exhibition features *The Natural Source* a look at the way art has been influenced by nature. The show contains original art objects from the Denver Art Museum's permanent collection.

Martin Marietta was the only local corporation to make a grant to help finance the construction and equipping of the van.

Arrangements for the van's visit were made by Fitzroy Newsum, the public relations department's manager of civic liaison. The van will be parked near the engineering building.

## NASA administrator says 'thanks' on anniversary

Marking the 20th anniversary of the founding of NASA, the organization's administrator, Robert A. Frosch, sent this letter to Laurence J. Adams, president of Martin Marietta Aerospace.

"Twenty years ago the National Aeronautics and Space Administration (NASA) was formed to meet an international challenge in space. During those intervening years, our nation met that challenge and has been able to achieve objectives which were once thought to be science fiction dreams. At the same time, however, we have harnessed space and aeronautics research to provide a better life here on Earth. In no small measure, these successes are due to the efforts of our industrial teammates.

"Therefore, on this our 20th anniversary, I want to express my appreciation to you and your associates for the outstanding support you have given to NASA and the United States during this period. Without your support, we could not have accomplished these past goals. With it, we will move forward to new heights of achievement."

## JA companies begin operation

Three Junior Achievement companies sponsored by the division have begun operation at the JA center on Federal Boulevard. Two of the companies have advisers from the Denver Division, and the third is guided by Denver Data Center employees.

The teenage members of the companies organize their firms along the lines of major corporations. They select, design, manufacture a product, plan a marketing program, sell, and distribute the product.

Each company has 15 members. Robert M. Rodriguez, who coordinates the program for Martin Marietta, says efforts are being made to expand the JA companies to 20 members.

The three companies, their advisers, and the products they manufacture and sell are:

ITS/Creative Development Company:

Robert J. Ancell, Gail L. Bocox, Jarrett Peter, Robert M. Rodriguez, and Phillip J. White. Product: Emergency tow straps for vehicles.

Watts 'n Steel: Wallace E. Goodwin, George C. Kenry, Robert L. Stanford, Lori O'Shea, and retired employee Dan Padilla. Product: Pad and pencil holder.

Colorado Designs and Woodworking: Robert L. Johnson, Karen Diehl, Lyle E. Borgeman, Howard Flomburt, and Rich Mason. Product: Magazine rack.

**MARTIN MARIETTA NEWS**  
Published by Public Relations  
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Call Ext 5364 with suggestions  
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Denver Division  
P.O. Box 179 • Denver CO 80201  
November 1978

## Loss, damage reporting important to division property management system

With more than 55,000 items of equipment in the property management system, quick reporting of loss or damage becomes important to the expedient repair or replacement of equipment and to maintaining accurate accountability records.

"Delay in reporting," says Eileen M. Crofton, division property manager, "can delay work on projects and may also hamper efforts to gain new business."

"Our reporting procedure and how we follow it is monitored regularly by the resident Air Force property administrator," she said. "Our performance is measured and reported."

Because of the work the division does, some tooling and equipment is furnished by the customer—particularly by the government.

"We must be especially careful when we are using and managing this equipment," Ms. Crofton said. "Misuse, failure to report loss or damage, or to follow procedures for reporting, can harm our reputation with the customer."

"We have the same responsibility for Martin Marietta-owned equipment," she said. "Loss, damage, or destruction of our own property—and not reporting the problem—increases our cost of doing business."

To create an awareness of the importance of reporting loss, damage, or destruction of property, posters will soon appear alerting employees to the need to report and will provide a telephone number to call.

The procedure has been revised and information about the revision is being distributed.

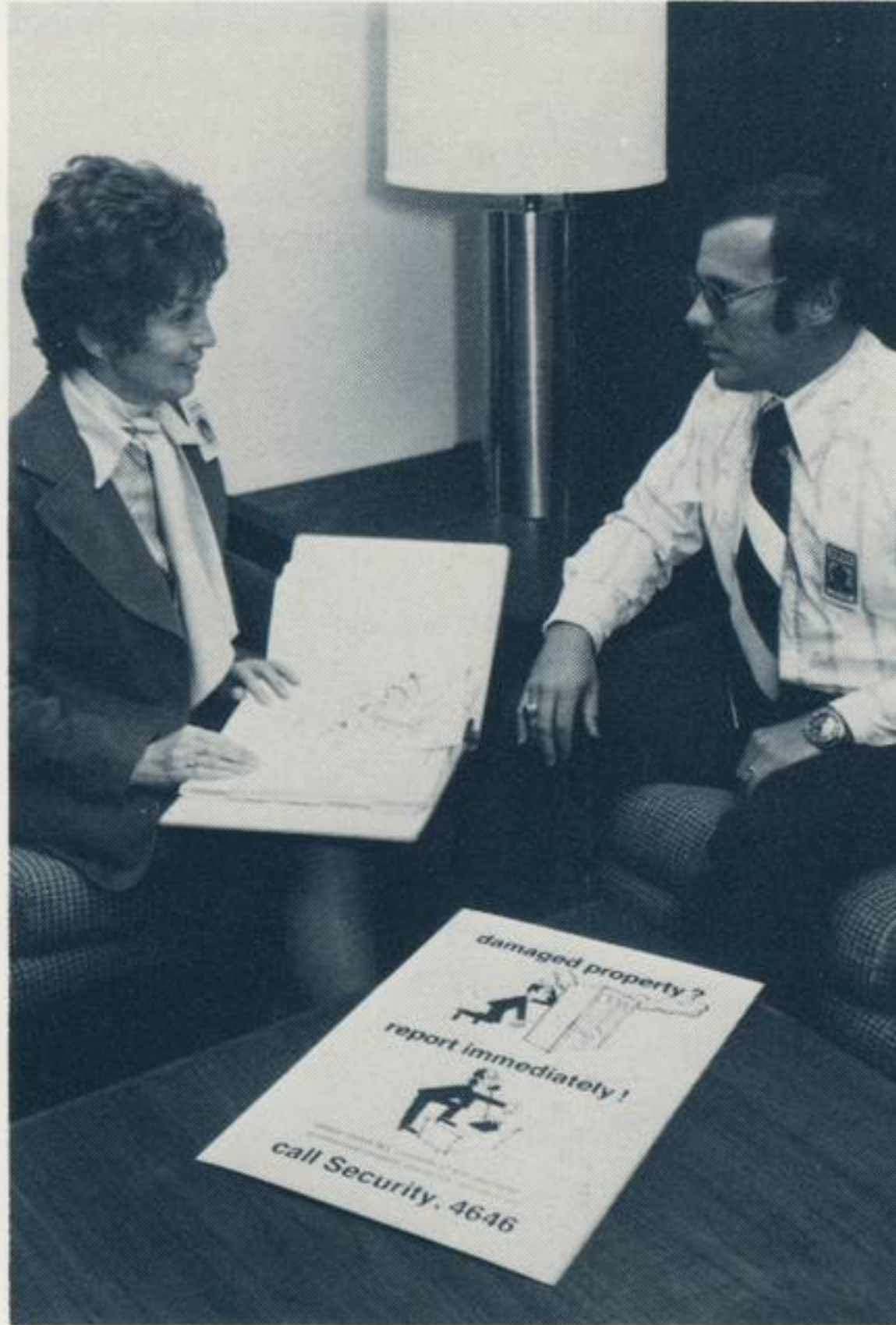
## GSS, PIC share facilities

The ground support system office has been moved and now shares facilities with the payload integration contract project at 888 North Sepulveda Boulevard in El Segundo, CA.

"The collocation of the projects allows us to more effectively share our resources as we support the Air Force in the transition to the space shuttle era," says Alan L. Schaeffle, PIC project director.

According to Rowland Young, GSS manager, the move "will facilitate communication with the customer as well as among ourselves."

Those corresponding with the office are urged to address mail "Martin Marietta Corporation, Payload Integration Office" or "Martin Marietta Corporation, GSS SAMSO Resident Office," to assure delivery to the proper project.



*Eileen M. Crofton, division property manager, and Brian Cope, a property management specialist, discuss the loss or damage reporting awareness program. In the foreground is the poster that will soon appear on bulletin boards. Cope is leading the awareness program effort.*

## Foundation scholarship application deadline set for February 15

The application deadline for Martin Marietta Foundation scholarships for sons and daughters of employees for the 1979-80 academic year is February 15, 1979.

To be eligible, the employee whose son or daughter is an applicant must have been a Martin Marietta employee for at least two years as of January 1 of the award year and be on the active payroll at the time of the award.

Applications for the \$2 thousand scholarship awards will be evaluated and winners selected by a committee of three persons not associated with the company. The committee will be chosen by trustees of the Foundation from the academic and business communities.

All applications, supporting evidence, and correspondence should be sent directly to the committee.

Application forms and information about the scholarship program may be obtained from R. W. Walker, training, education, and employee development, RDL 412, ext 3395 in Denver.

## Nobel Prize winner says 'thanks' for Viking book

"Viking—Mars Expedition 1976," a report of the exploration of the Red Planet, has been sent to selected top scientists and scientific libraries in the United States.

Many of those receiving the book expressed their appreciation, but a recent note to John H. Boyd Jr., director of public relations, has particular significance:

"Thank you for sending me the beautiful personal copy of your book, 'Viking—Mars Expedition 1976,' which I received some days ago. The photographs are outstanding, and it will be a nice addition to our library in the cosmochemistry field of our laboratory groups. I appreciate your remembering me."

The note was signed by Harold C. Urey. Dr. Urey was the Nobel Prize laureate in chemistry in 1934 for his discovery of heavy hydrogen. He is now at the University of California at San Diego, where he is continuing his work in chemistry.

The report on the Viking expedition to Mars was prepared by the division's public relations department and discusses the mission, experiment results, and performance of the lander and orbiter. It is the first publication that provides a complete summary of instrument and spacecraft performance and all experiment results. The book is on sale at the division cafeteria.

## Publications award deadline is set

The publications award committee has set January 15, 1979 as the entry deadline for evaluation in the division's awards program. Eligible papers may be submitted anytime up to the deadline.

Entries must be submitted in 10 legible copies and be accompanied by a completed publications award entry form. Forms and information may be obtained from R. W. Walker, training, education, and employee development, ext 3395, mail no. 6360 (RDL 412).

To be eligible for an award, the article must have been published between January 1 and December 31, 1978. Signed articles appearing in professional, technical, or trade periodicals, journals, books, papers, or bound proceedings may be submitted. Publications must be related to the author's professional functions in his assigned duties.

Entries will be evaluated on the basis of creativity, quality of content, benefit to company, and mode of expression.

## At Canaveral

### Canaveral employee is man of the year

Harold A. Wilmer, supervisor of tool cribs and work order control at Canaveral operations, has been named *Man of the Year* by the Titusville Area Chamber of Commerce. He was nominated by the American Red Cross for his extensive volunteer work. He received a plaque at a Chamber breakfast in late October.

The letter nominating Wilmer read in part:

"Although even doing a portion of what Harold does would not leave most of us time for sleep, for him it is still not enough. Harold constantly monitors police, fire, and rescue radio calls. Anytime anyone needs help, whether it be something as serious as an accident or as minor as a police car with a dead battery, flat tire, or out of gas, he is Johnny-on-the-spot. He arrives with a can of gas, jumper cables, first aid supplies, or flashlights for traffic control."

He started with Martin Marietta in Baltimore in 1939 and transferred to Canaveral operations in January 1958.



Harold A. Wilmer displays his Man of the Year plaque on his desk at Canaveral operations.

## At Vandenberg



Lisa Lewis, 18-year-old daughter of Mr. and Mrs. Walter E. Lewis, has been selected to participate in the American Field Service's Americans Abroad program. Her father is a field engineer at Vandenberg operations. She is shown packing her suitcase for a 10-month stay in Lens, France with the Jacques Denocq family. Lisa was graduated from Santa Ynez Valley High School in June and has been attending junior college.

### Canaveral employees hold annual picnic

The annual picnic for Denver Division employees at Cape Canaveral and Kennedy Space Center was held in mid-October at the Complex 99 recreation center.

About 900 employees on various division programs, including Titan III, external tank, CCMS, GSS, PIC, and SCATHA, attended.

After food and refreshments were served, employees and their families participated in volleyball, softball, horseshoes, bingo, raffles, and various children's games.

### Golf tourney winners named at Canaveral

Winners have been announced in the recent golf tourney held at the Royal Oak Country Club, Titusville, for employees at Canaveral operations and Kennedy Space Center.

Trophy winners: D. J. Muldowney, low gross; P. J. Gannon, runnerup low gross; F. J. Scheffler and W. C. Swank, tie for low net; R. R. Featherman, runnerup low net.

Prize winners: P. J. Gannon, nearest the pin, hole 2; Robert Hansen, nearest the pin, hole 17; D. J. Muldowney and S. S. Tucker, tie, longest drive.

### Annual picnic held at Vandenberg

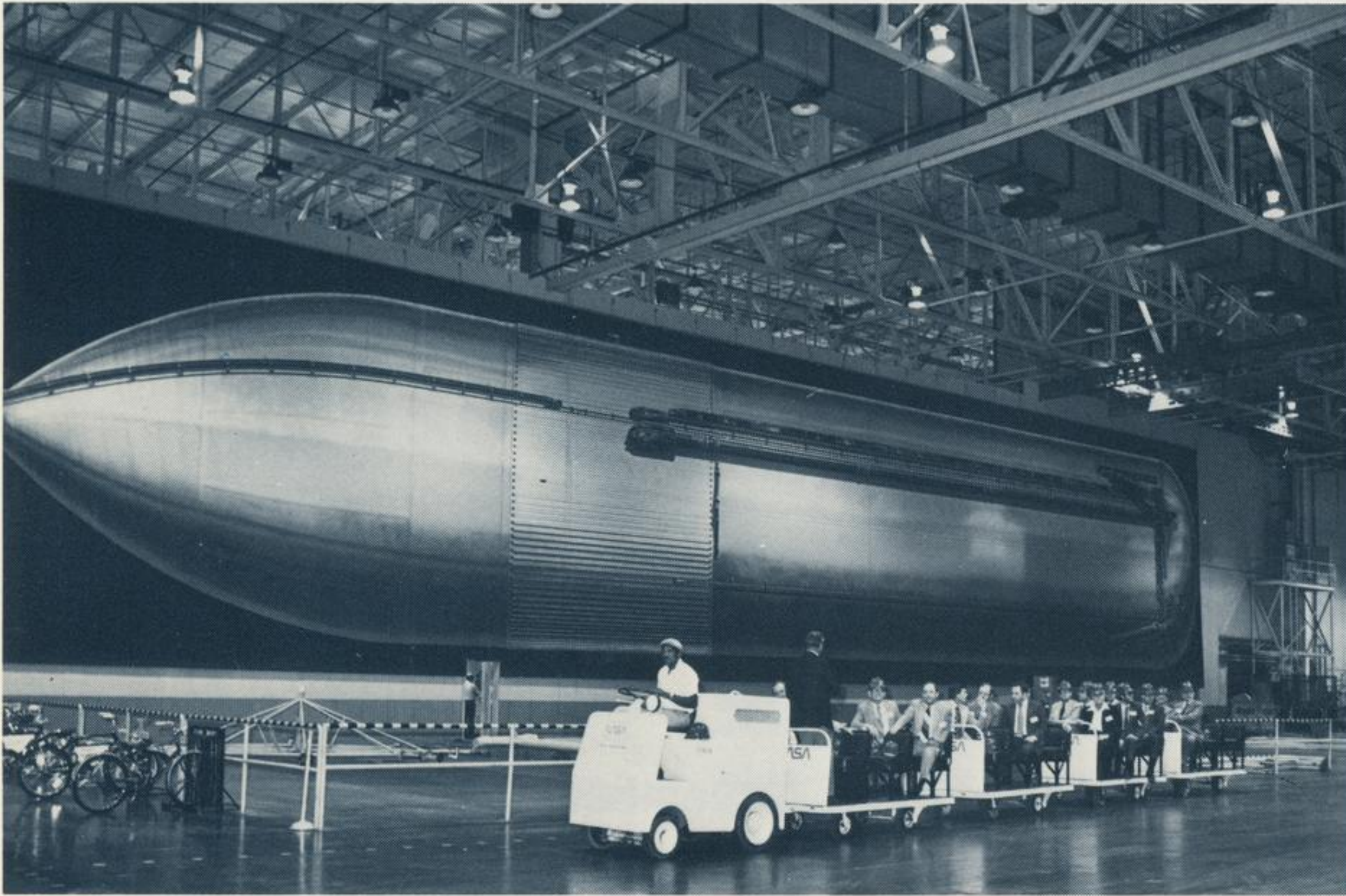
"Food 'n fun" was the motto for the Vandenberg Operations annual picnic held at the Santa Maria Union Oil Company picnic grounds. Kids,

parents—and even a few grandparents—thoroughly enjoyed the event, as the photos show.



Cooking crew members Jim Tout, Milt Schaaf, and Jim Money test and turn the roasts as they slowly simmer to perfection over the hot coals.

## Michoud open house scheduled in December



*A group of business and civic leaders from New Orleans toured Michoud operations this month with George E. Smith, vice president and general manager. The tour followed a buffet breakfast and briefing on the space shuttle program. The breakfasts and tours are held regularly at Michoud to acquaint the local community with Martin Marietta's efforts in the space program.*

### Second phase space shuttle ground vibration tests begin

The second phase of ground vibration tests has begun on the fully assembled space shuttle launch vehicle at the Marshall Space Flight Center in Huntsville, AL, to qualify the vehicle for launch.

The test marked the first time all elements of the space shuttle (orbiter, external tank, and solid-rocket boosters) have been assembled as the vehicle will appear at launch.

During the tests the shuttle's weight rests on the aft end of the two solid rocket boosters. They are bolted to hydrodynamic support systems at the base of the 250-foot-tall test tower and are pressurized to allow vertical, lateral, and rotational movement of the entire vehicle during vibration tests.

Eighty-three mechanical shakers have been attached to points on the vehicle to simulate vibrations expected during the initial launch phase. Using a computerized system to drive the shakers, test engineers can select different positions to obtain the desired response from the vehicle.

The current series of tests is scheduled to run through November.



*A huge straddle carrier transports the hydrogen tank portion of flight external tank number 2 to a pneumastatic test facility for pressure tests. The tank is wrapped in heavy brown paper to protect it from contamination in the air before installation of the foam-like thermal protection system coating.*

Saturday, December 9, will be Space Day in New Orleans, with a public open house scheduled at the Michoud assembly facility from 10:30 a.m. until 4:00 p.m.

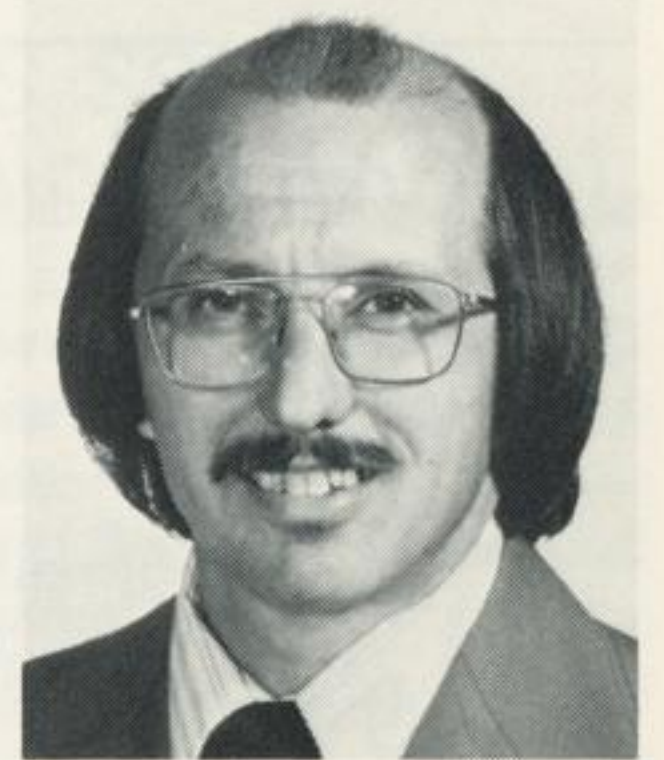
The event will begin at 11:00 a.m. with a dedication ceremony at the first stage of a Saturn Moon rocket on permanent display at the Michoud entrance. Among dignitaries taking part in the dedication are Dr. William R. Lucas, director of the Marshall Space Flight Center, Huntsville, AL, and Apollo 13 astronaut Fred Haise.

During the rest of the day, the space center will be open to the public for self-guided tours of the external tank assembly areas, space exhibits, and space program movies.

Prior to the dedication ceremony, from 8:00 a.m. to 10:30 a.m., the facility will be open only to Martin Marietta employees and their families. During this time, photographers will be stationed beside the first flight external tank to take pictures of each family as a memento of the occasion. Free coffee and donuts will be served in the cafeteria.

Employees are encouraged to bring their own cameras.

### Michoud employee is attending Harvard



*Chester F. Wheeler*

Chester F. Wheeler, manager of cost management and estimating at Michoud operations, has been selected to attend the Harvard University Business School course in Program Management Development in Cambridge, MA. He began the course this month and will complete his studies in January.

He joined Martin Marietta in November 1973 as an estimator on the external tank project at Michoud. Since then, he has worked in the estimating department and helped establish design-to-cost criteria for the external tank. He was promoted to his present position in February this year.