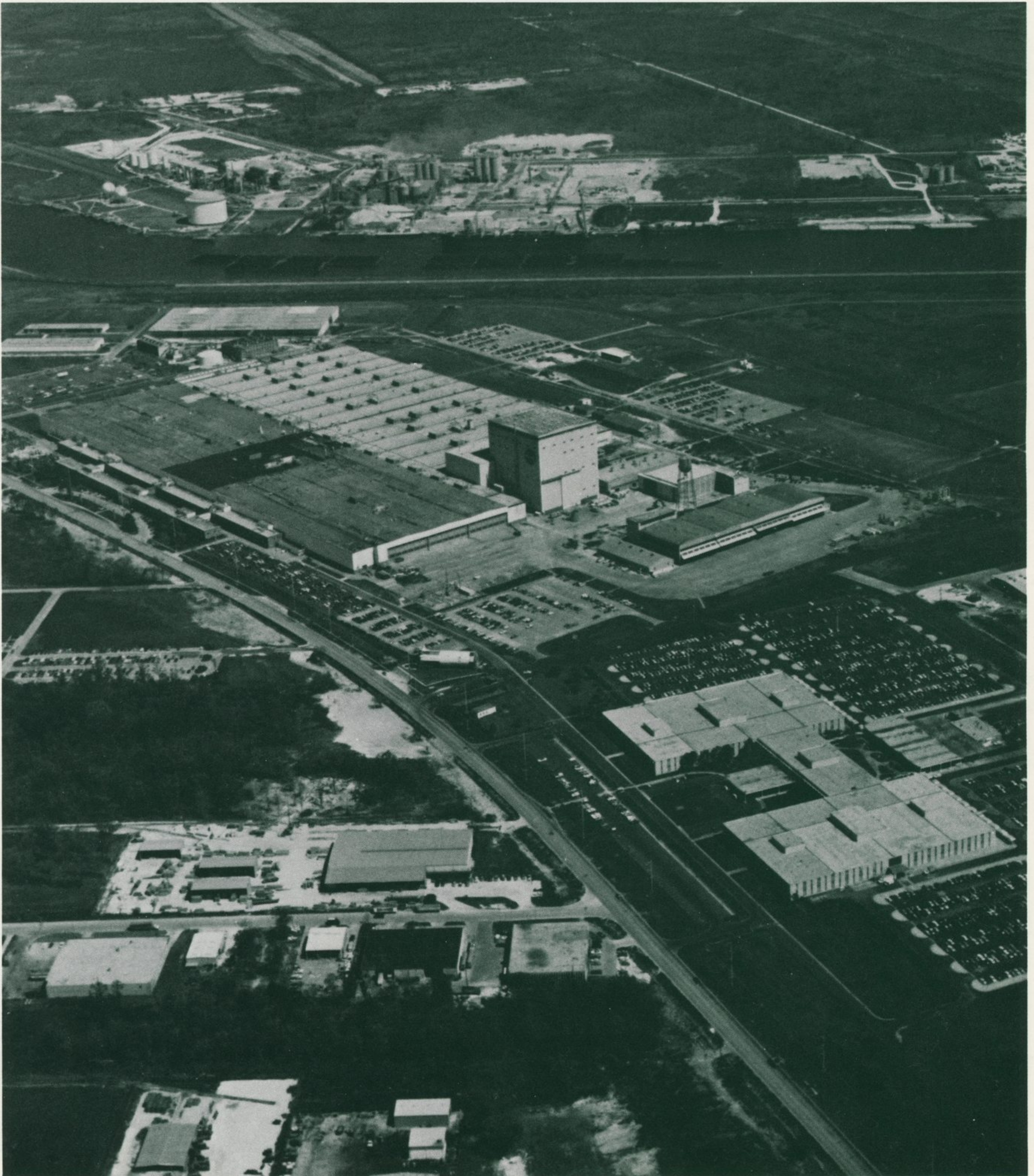


NUMBER 24/1982



MX basing mode selected; ATSS contract is expanded

Augustine: MX basing decision is important

"I am very pleased by President Reagan's announcement of his full support for the Closely Spaced Basing mode for the new MX missile," Norman R. Augustine, Denver Aerospace president said.

"We have played a major role in the development of the MX missile, and will continue to have a major role in its implementation."

"The President's decision is a step that is needed to strengthen the nation's defense posture," Augustine said. "I support the decision and hope that members of Congress will back the administration in bringing this new missile system into being."

"I believe there can be no question about the MX missile's ability to deter the Soviets and to encourage their serious consideration of reasonable arms control agreements. The President's decision is critical to the future of the nation's defense. It will also, obviously, have a major long-term impact on the business base of Denver Aerospace."

NASA consolidates work under Martin Marietta

NASA has awarded a \$43 million contract to Michoud division for facility support services at NASA's Michoud assembly facility.

The award is in addition to the company's existing contract with NASA's Marshall Space Flight Center in Huntsville, Alabama, for the manufacture of Space Shuttle external fuel tanks.

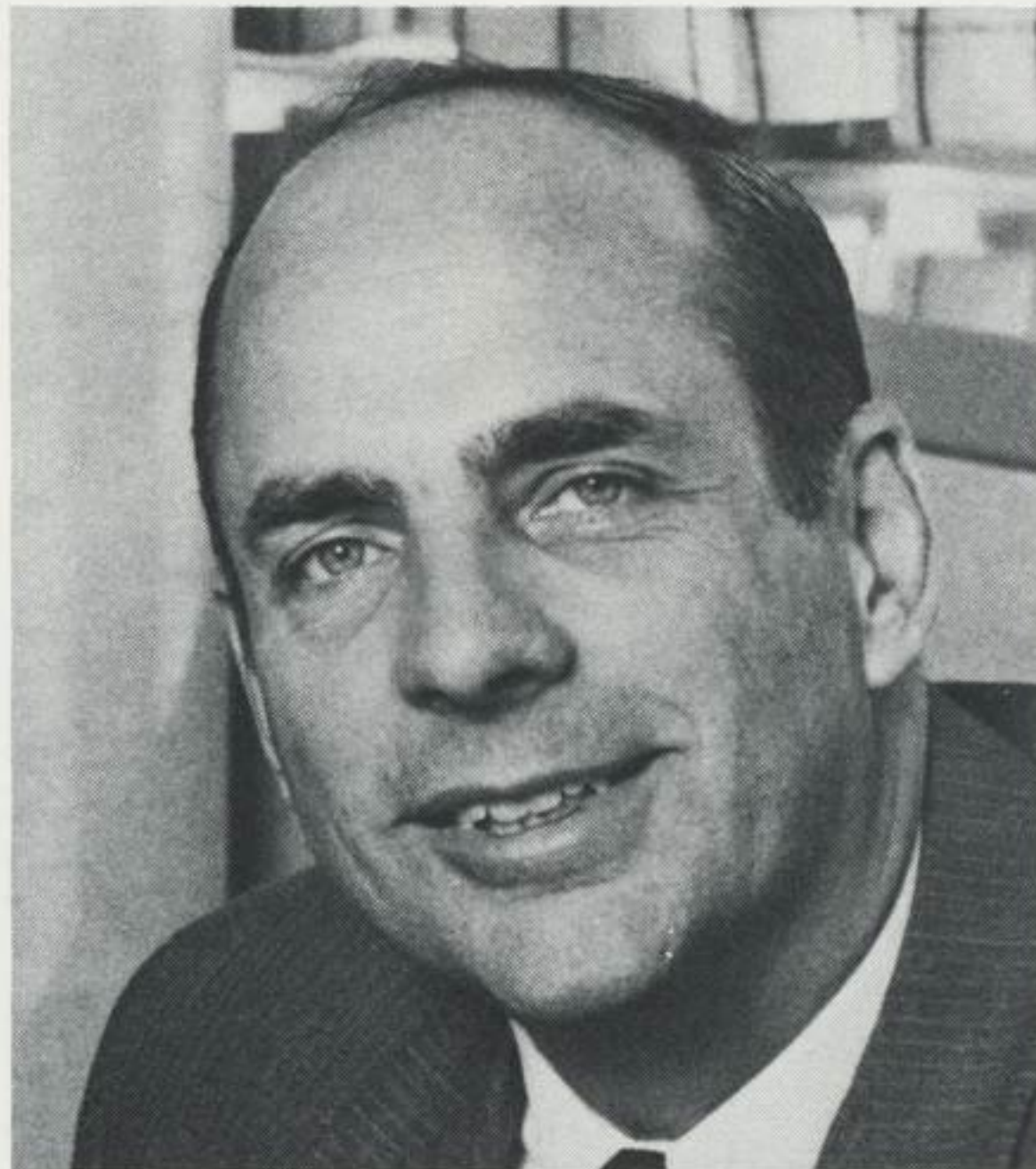
Services currently provided by a number of firms under contract to NASA will be performed by Michoud division and other companies under contract to the division. These activities include facility operations and maintenance; security and fire protection; printing and photography; and janitorial, medical, and food services.

NASA officials reasoned that since the Michoud facility is used primarily for the manufacture of external tanks for the Space Shuttle, it would be more efficient for the Michoud division to have responsibility for both production and facility support.

The company will assume facility support responsibility on January 15, 1983. The contract extends through September 1985.

On the cover

This aerial view shows the Michoud assembly facility complex for which the Michoud division will provide support services beginning January 15. The new assignment is in addition to the division's building of external tank for Space Shuttle.



Norman R. Augustine

New organization emphasizes quality, cost effective product

"A high integrity product at the right price will be the hallmark of this organization," said C.E. Carnahan, vice president of the new Product Operations organization.

Carnahan, formerly vice president and general manager of the Space Launch Systems division, was named to the new position by Norman R. Augustine, Denver Aerospace president.

Peter B. Teets, who was vice president of business development, succeeds Carnahan as general manager of the division. Richard E. Brackeen will replace Teets. Brackeen has been head of strategic planning and development at Aerospace headquarters in Bethesda, Maryland.

"We will continue the goal to repeatedly produce an absolutely superb product," said Carnahan. "As Mr. Augustine said in announcing the new organization, we are entering an era when we will build more hardware that will have to perform more often in tougher environments, making mission success even more vital.

"It is essential that the products successfully fulfill all mission requirements," he added. "And it is essential that the products be produced at the right price."

The company has a reputation for high integrity, mission successful products, Carnahan pointed out and cited the Titan launch vehicle as an example.

"I use the Titan only because that is the product I know most about right now," he said. "All our products have comparable records. If they hadn't, we would not have grown as we have. If they hadn't, we might not even be in business."

Only those companies that take the matter of quality, integrity, and mission success seriously will continue in business, Carnahan emphasized.

"I can't remember a time when it has been as

\$42 million added to MX contracts

Additional engineering work on elements of the operational MX weapons systems has been assigned to Denver Aerospace.

Two add-ons to the existing assembly, test, and system support contract for development of MX are valued at \$42 million. The contracts are administered by the U.S. Air Force Ballistic Missile Office at Norton Air Force Base, California.

Under one addition, for \$16 million, the company will analyze and prepare plans relating to assembly, installation, and checkout of the missile at future operating bases. The work extends to June 1984.

The second add-on, for \$26 million, calls for the company to perform system definition studies for elements of the MX closely spaced basing mode. It will involve engineering studies and analyses to define system and subsystem requirements for ground equipment and facilities for weapon support and launch control.

The MX development program is proceeding as planned toward an initial test flight in early 1983 from Vandenberg Air Force Base, California.

important as it is now to face straight on the issue of producing high integrity products at the right price," he said.

Providing the environment in which people can maintain the discipline and attitude they now have to "do it right the first time" is his main task as head of the new organization, Carnahan said.

"Our people want to do it right," he said, "and I'm going to help them in every way I can to maintain that attitude."

Initially, the new production operations organization will consist of mechanical manufacturing, headed by Joseph P. Marcus; materiel, with C.T. Wood in charge; and quality and system safety, managed by George W. McGee.



C.E. Carnahan

Technical operations realignment is set

The logistics and solar energy departments are being merged into Technical Operations, and information systems will have its tasks expanded.

The realignment was announced by James W. McAnally, vice president for Technical Operations.

"With the increased emphasis on automation in all areas of our business," McAnally said, "it is important that we focus sharply on the techniques, the equipment, and the costs. We have been using a steering group and a wide variety of subgroups in the past to manage design, manufacturing, and office automation.

"Centralizing the activity will assure that we are getting the best return on our investment," said McAnally.

Joseph T. Keeley has been named to head information systems.

Logistics was a section in the systems department when that group was separated and assigned to the newly created divisions here in 1981. About 25 logistics employees were assigned to the Space and Electronics Systems division and the same number to the Space Launch Systems division. Approximately 150 were transferred to the Strategic Systems division for work on MX.

"As it turned out," McAnally said, "the logistics group in Strategic Systems became a de-facto central function, supporting the other divisions as the needs came up. The group there has grown to about 230 people."

With the emphasis on hardware and systems in the Strategic Systems division, the decision was made to recentralize logistics in Technical Operations. The function will be better able to serve all divisions from that organization.

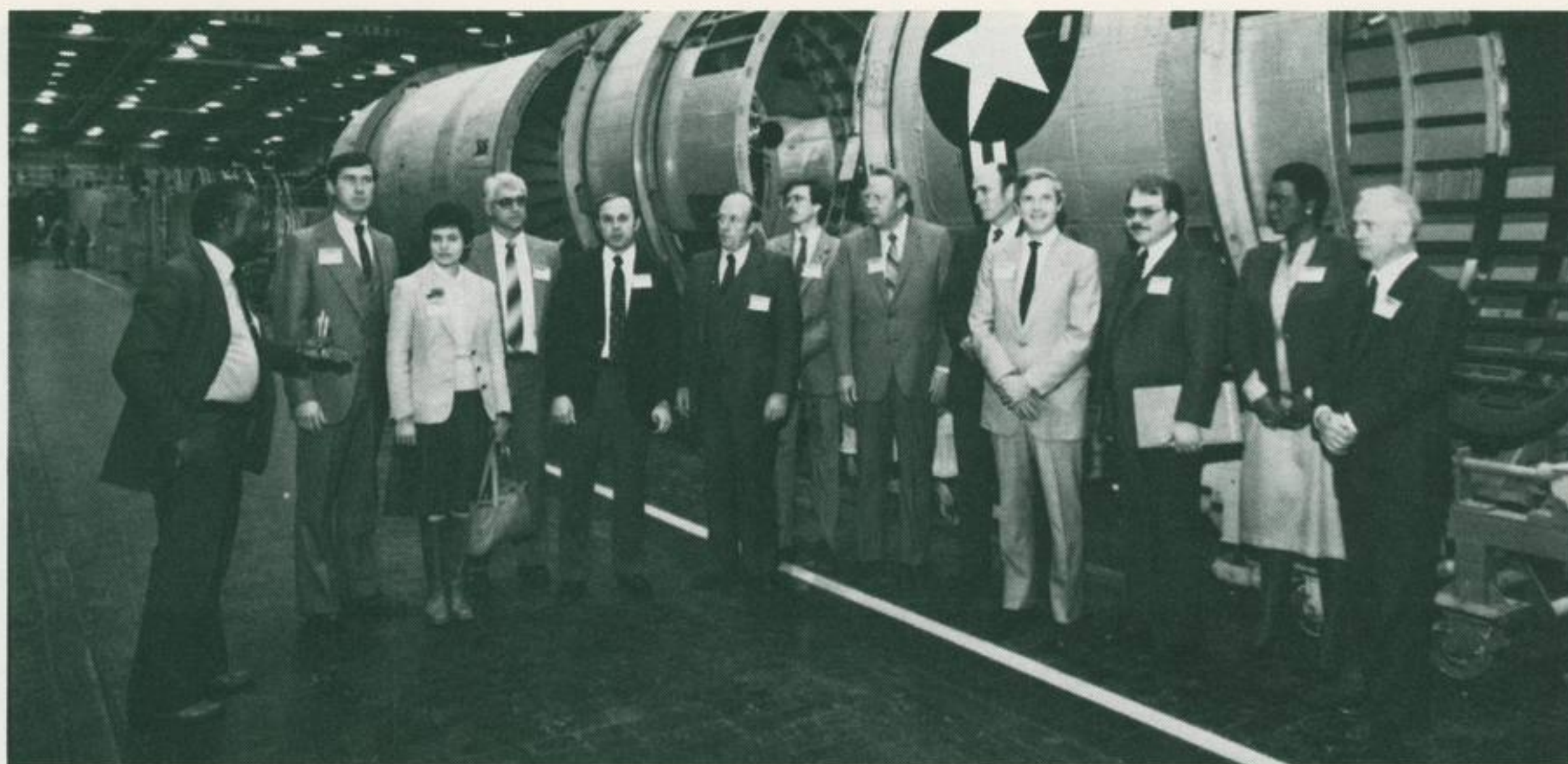
William Rogers, who has been heading the function in Strategic Systems, will manage the same function in technical operations.

Denver Aerospace efforts in solar energy began in technical operations. It became a product area when major power plant contracts were won.

"Although we are the largest producer of solar power in the world," McAnally said, "the business has not grown as rapidly as expected. Until the market develops more fully, we are folding the effort back into Technical Operations.

"We will keep all open commitments to our customers," he said, "and we will continue to pursue technology contracts for both photovoltaic and thermal solar power plants."

H.C. Wroton will head the solar function in Technical Operations.



Community leaders visited the Titan manufacturing area during their tour of Denver facilities November 16. Fitzroy Newsum, (left), manager of civic liaison, was the guide for the tour.

Community leaders tour main plant

Leaders from area business, government, and education joined Denver president Norman R. Augustine November 16 for breakfast and an operations briefing.

The group toured the space launch systems manufacturing areas, space operations simulator, and command, control, and communications laboratory.

Representing industry were Ronald L. Branish, Gary Energy Corp.; Kermit L. Darkey, Mountain States Employers Council; Allen Dines, attorney; Rex Jennings, Denver Chamber of Commerce; Curt Linke, Manville Corp.;

Donald Miller, Gates Rubber Co.; Stephen G. Outing, Colorado Business Magazine; Bruce M. Rockwell, Colorado National Bank; and Richard L. Wilde, Franklin Laboratories.

Visitors from government were James P. Collins, City of Littleton; Arvin Michel, City of Lakewood; and Jewell Underwood, Civil Rights Division, State of Colorado.

Representing educational institutions were Dennis H. Bauer and Larry Means, University of Denver; Dorothy Gotlieb, Colorado State Board of Education; and Dr. Richard A. Laughlin, Consortium of State Colleges of Colorado.

Vandenberg engineers are honored for work

Engineer of the year honors have been awarded to Vandenberg Operations employees by the Robert F. Goddard chapter of the Air Force Association.

Danny L. Mangum, senior quality assurance engineer, was named Titan III engineer of the year.

Shuttle engineer of the year honors went to Robert L. Robinson, manager of ground support systems technical integration.

The citations were presented at the chapter's annual awards banquet.

Mangum was honored primarily for his "significant contributions to the successful

launch and flight" of more than fifty Titan launch vehicles since 1970. During that time he served as quality assurance engineer at space launch complex 4, mission success corrective action engineer, and is currently the management representative for the Vandenberg operations director of the launch operations control center during each Titan launch.

Robinson was honored as a "key contributor to the progress of the Vandenberg space transportation system launch and landing site design, development, and activation" since 1976. Most recently, he was a leader in the optimization study for the program in response to changes in projected mission requirements.



Danny L. Mangum



Robert L. Robinson



An honorary membership in the local chapter of the Society of Manufacturing Engineers was recently presented to James W. McAnally, vice president, Technical Operations. At the presentation were (from left), Timothy McLaren, second vice chairman; Michael Holwell, secretary; McAnally; Donald Powell, chairman; and Steven Blake, public relations chairman. The chapter officers at the presentation are Denver Aerospace employees.

Volunteers, contributions sought for Operation Santa Claus

The 24th annual Operation Santa Claus fund drive is underway. The objective is to provide Christmas food, clothing, and toys for 100 needy families with more than 600 children.

In lieu of sending Christmas cards to each other, employees are asked to contribute the cost of cards to Operation Santa Claus. Also funding the effort are proceeds from the year-long waste paper collection.

Volunteers are needed to help assemble and deliver holiday gifts.

Operation Santa Claus is the largest employee activity of its kind in the Denver area.

Nominations of needy families are made by

various welfare and church organizations, as well as by employees.

George McCone, chairman of the beneficiary selection committee, expects a larger number of requests than in past years.

"Some of the families receiving aid are in extremely unfortunate situations," says McCone.

Each family selected receives a substantial gift of groceries. Goodwill certificates for clothing go to those in need, and each child under 16 receives a toy.

For program information and fund coordinator names, call Dwaine Schilling, Ext. 3614.

Blood bank visit nets 336 pints

When the Belle Bonfils mobile blood unit visited the main plant November 9 through 11, employees donated more than 300 pints of blood.

Employees who have given a total of two gallons (16 pints) or more are Elvin P. Klein, George P. Lawrence, Jr., Louis H. Ripp, Robert J. Wertz, Donald F. Delphia, Richard A. Jarest, Gerald P. Pantel, Austin E. Fehr, Ruth M. Gray, Frederic H. Ikeya, and Geneva R. Purdy. Pantel has given more than five gallons.

Donations of one gallon (eight pints) or more have been made by 21 other employees.

Space art sets mood for Shakespeare's 'Tempest'

Work by Denver Aerospace artists is helping set the mood for Denver Center for the Performing Arts theater goers.

Shakespeare's "The Tempest" is being presented in a 25th century setting in The Stage. Instead of a shipwreck landing the characters on an enchanted island, it's a spacecraft.

Art by Charles O. Bennett, John Tielman, and Wayne Williams lines the lobby leading to the theater, giving the feeling of space travel.

The art includes Space Shuttle, Venus Mapper, Large Space Systems, and SCATHA.

Photographs of the earth from space complement the artists' concepts of spacecraft and space travel.

The art, loan to the DCPA, went on display November 29 and will be in the lobby until January 1 when "The Tempest" ends its run.

Secretary's handbook nearly complete

A new secretary's handbook is nearing completion after a year's preparation and review.

Compiled by secretaries for use by secretaries, the handbook is scheduled for distribution in January.

The looseleaf volumes contain more than 200 pages of secretarial guidelines and unique procedures which will be reviewed annually.

The committee of secretaries which reviewed the material for the book was coordinated by Barbara Dash, organization and management development, and included Carol Angel, Vickey Daniels, Betty Jemison, Norma Patterson, Anne Rackowski, and Marilyn Reitz.

Orientation sessions to explain the new handbook will be held at DSC, SSB, Greenwood Commons, and at the main plant. Orientation and distribution will be coordinated by Beverly Eggar, organization and management development.



Compiling the contents for the new Secretary's Handbook are, from left, Marilyn Reitz, Norma Patterson, Vickey Daniels, Ann Johnson, Barbara Dash (coordinator of the project), Ann Rackowski, and Joy Jones.

Augustine to be keynote speaker

Denver Aerospace President Norman R. Augustine will deliver the industry keynote address at the 1983 Mission Assurance Conference to be held in Los Angeles June 7, 8, and 9 next year.

The conference, held biennially, was established in 1978 by Gen. Richard C. Henry, commander of the U.S. Air Force Space Division and vice commander of the Space Command. Its purpose is to focus industry and government attention on problems that inhibit mission success of the high technology, high reliability space systems managed by the Space Division.

George McGee, Denver director of quality and safety and Harry Quong, manager of reliability and quality assurance at NASA headquarters, are co-chairmen of the 1983 conference.

Employee teaches rocketry to elementary students

A three-hour class on rocketry, taught by Wayne McCain, strategic systems, gave 15 Dutch Creek elementary school students an insight into aerospace technology October 28.

Scheduled during the track B vacation, the class was part of the "bonus learning" program.

Model rocketry provides a direct application of science and mathematics. Topics included Newton's laws of motion, Bernoulli's aerodynamic principles, and basic propulsion concepts. The U.S. space program was also highlighted in lectures, audio-visual presentations, and hands-on demonstrations.

"Many of today's scientists and engineers were model rocketeers," says McCain. "Many still are."

Teaching the course with the Denver Aerospace propulsion engineer was his wife, Dana, a full-time engineering student and a model rocketry enthusiast.

The Dutch Creek activity included classroom discussion of model rocket and launch system design with emphasis on safety during countdown, launch, and recovery. Several models were launched from the school's soccer field.

KSC employees give \$13,000 to United Way

Michoud division's Kennedy Space Center operations has achieved 100 percent employee participation in the Brevard County United Way program for the third consecutive year.

Checks for \$13,056 were presented to United Way's Aerospace Division by KSC campaign chairpersons Pat Murphy and Melodie de Guibert at a recent United Way report breakfast.

The Brevard County United Way represented 41 agencies and programs offering health and human care services.



A plaque commemorating the formation of a National Contracts Management Association chapter at Vandenberg Air Force Base was presented by the keynote speaker at the inaugural meeting. Robert F. McGough, (left) Vandenberg operations contracts manager, accepted the plaque from Maj. Gen. Jack L. Watkins, commander of the First Strategic Aerospace Division at Vandenberg.

Carpool promotion is December 7 and 8

New carpools are forming as employees share the ride to reduce energy costs and air pollution.

Share-the-Ride coordinator Lori Sharp will help employees form new carpools. Ms. Sharp will be at the south entrance of the first floor cafeteria, engineering building from 10:30 a.m.-12:30 p.m. December 7, and in the SSB lobby December 8 from 10:30 a.m. to 12:30 p.m.

Carpool applications are available in recreation racks and in the Share-the-Ride office, Engineering 124G.

RTD tokens are available at a 10 percent discount (\$15.75 per roll) from the Share-the-Ride office and from Kay Shuey at DSC, Michelle Martin at SSB, and Barbara Elder at Greenwood Commons.



U.S. Representative William Nelson addresses the Martin Marietta Management Club.

Congressman addresses management group

U.S. Congressman William Nelson, from Florida's ninth congressional district, was the speaker at a recent meeting of the Martin Marietta Management Club in Florida.

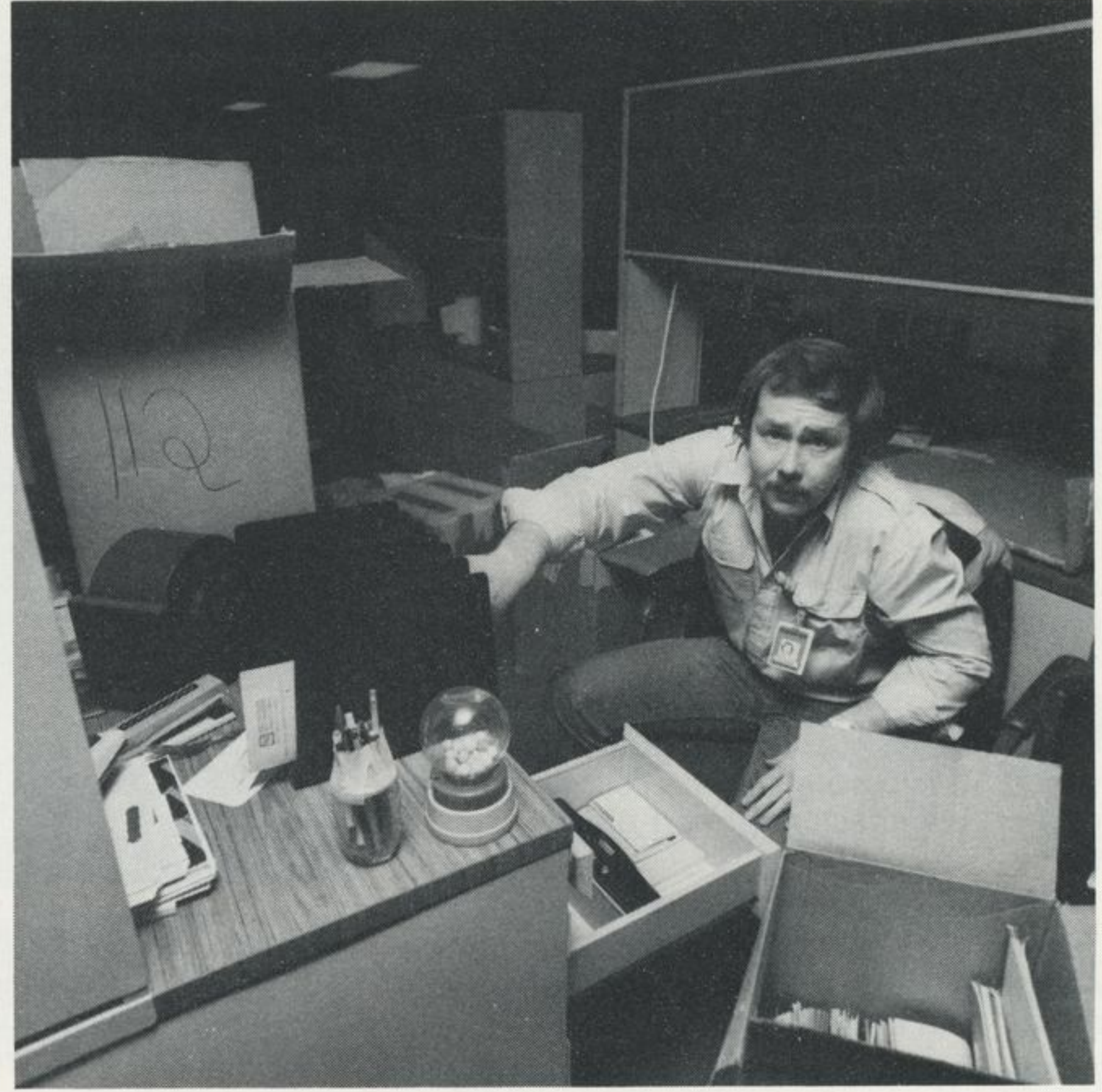
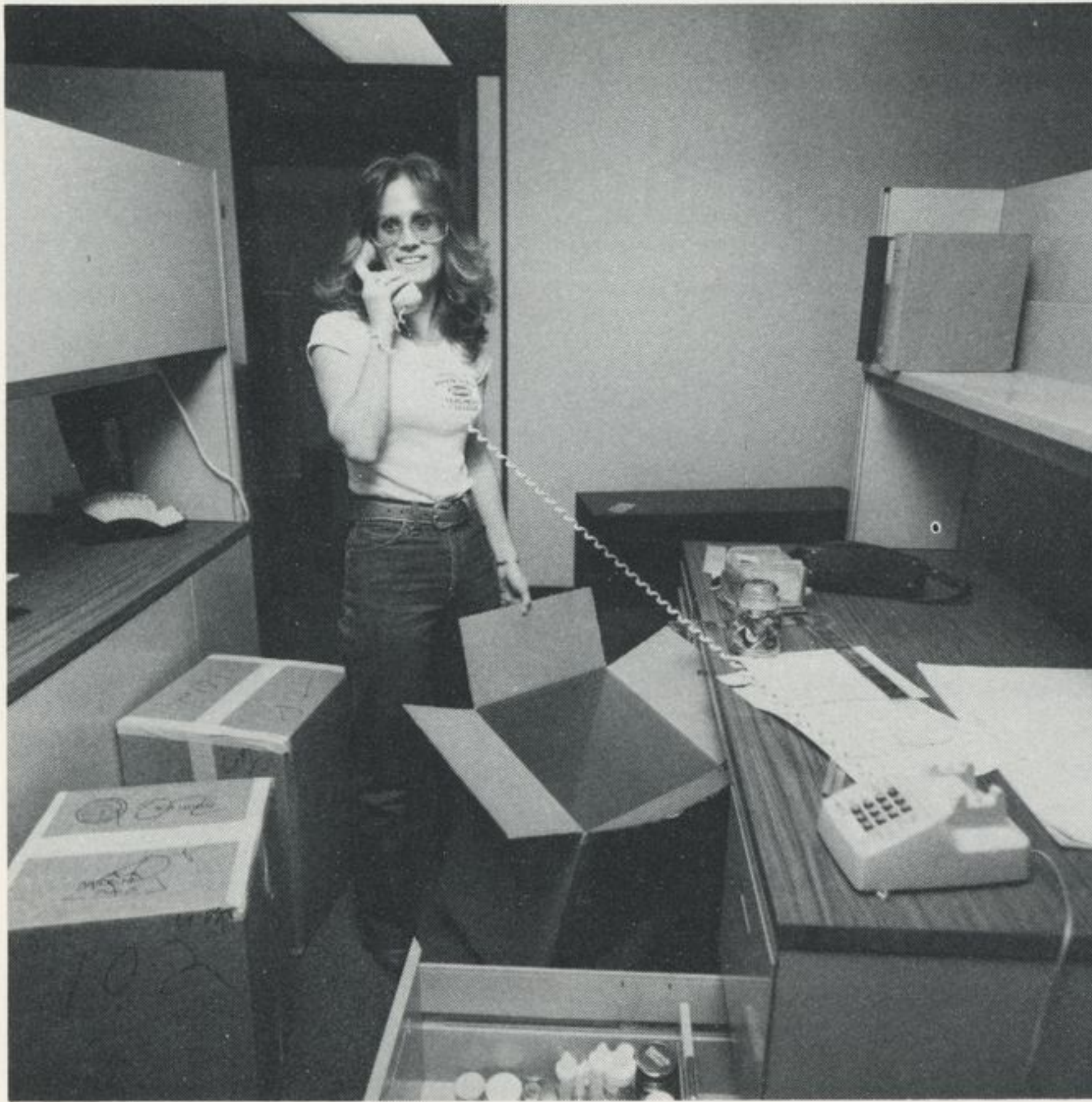
The congressman discussed the nation's economic situation and its impact on Brevard County and voiced his strong support for the U.S. space program.

Martin Marietta Management Club members are from Canaveral operations at Cape Canaveral Air Force Station; external tank operations; checkout, control and monitor subsystem group; and the solid rocket recovery system group — all at Kennedy Space Center.

Unit values set

Unit values for the three Performance Sharing Plans have been reported for the month ending October 31, 1982. They are:

Fund A (Indexed Equity):	1.7598621051
Fund B (Fixed Income):	1.5895983832
Fund C (Martin Marietta Stock Fund):	1.6545080242



Nancy St. Louis and Michael Jacobs, materiel, unload boxes of supplies and move into their new quarters in the Littleton Systems Center.

Volunteers needed for community agencies

Many volunteer job opportunities are available at more than 200 agencies in the six-county metropolitan area.

Updated job descriptions are kept on all volunteer positions by the Volunteer Center of the Mile High United Way.

Employees who are interested in sharing their talents with the agencies may call the center at 837-9999.

A brief telephone interview will be conducted, with a referral to an agency almost always resulting.

Volunteers are needed in a wide range of categories, including agriculture, animals, and environment; communications and information systems; crafts and hobbies; fine arts and graphic arts; health and medical services; law, law enforcement, and criminal justice; office work; recreations, sports, games, and social; transportation, administration and business management; counseling and supportive relationships; research and evaluation; and others.

Discount coupons offered for holiday shopping

Coupons entitling employees to discounts at LaBelle's catalogue showrooms are now available in the recreation racks.

The coupons will be honored December 10, 11, and 12 at all area LaBelle's showrooms.

Emergency notices on radio stations

If bad weather this winter causes the facilities to be closed, employees will be notified by emergency announcements on six local radio stations.

Stations that will broadcast the notices are:

KLZ 560 AM
KOA 850 AM
KIMN 950 AM
KYGO 98 FM
KOAQ 103 FM
KAZY 106.7 FM

Employees are encouraged to listen to these stations when there is a threat of inclement weather.

Junior Achievement advisers needed

Volunteers to serve as Junior Achievement company advisers are needed for the January semester.

Employees with administrative, sales, financial, or production expertise who can give one evening a week are requested to call Lori Sharp, JA coordinator, Ext. 6750 or 6605, by December 20.

Holiday plant closings set

Facilities will be closed December 24 and December 27-31 for the Christmas and New Year's holidays.

Tennis tournament winners announced

Class winners in the "Weekend Hackers" tennis tournament held November 6 and 7 at Arapahoe Community College have been announced.

First place winners are Janet Jewell, women's B singles; Charles Hudak, men's B singles; Alex Lluch, men's C singles; Clifford Lovejoy, men's novice singles; William Bragg and Allan Chevront, men's B doubles; and Alex Lluch and Drew Marti, men's C doubles.

Second place winners are Joanne Dickson, women's B singles; William Bragg, men's B singles; Jack Ballard, men's C singles; Ken Hoglund, men's novice singles; James Williams and William Curra, men's B doubles; and Keith Bacon and Walt Gross, men's C doubles.

MARTIN MARIETTA NEWS

Published by Public Relations
MARTIN MARIETTA AEROSPACE

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

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December 3, 1982