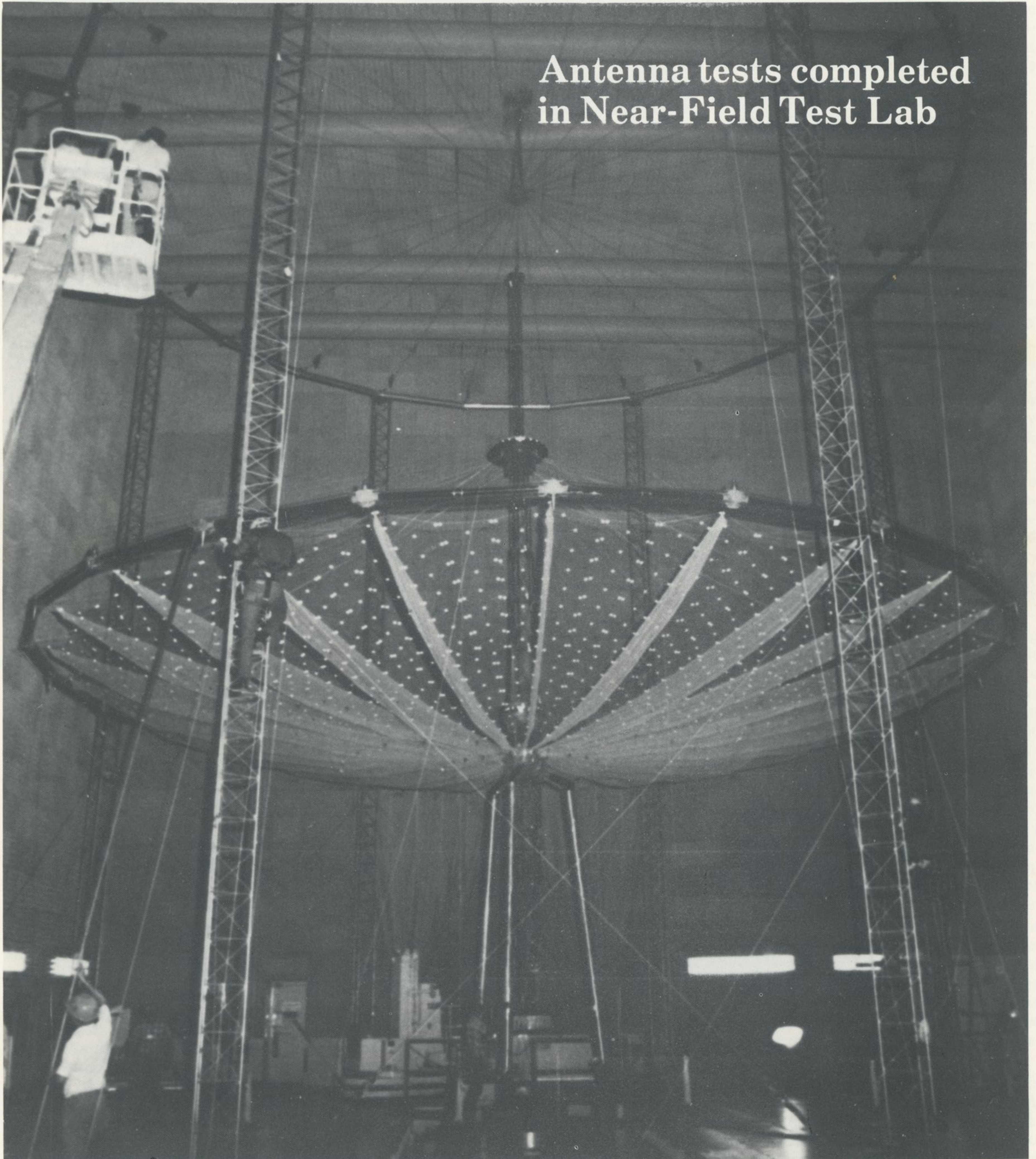


October 4, 1985

Number 20

Antenna tests completed  
in Near-Field Test Lab



# Mile High United Way kicks off campaign

Oct 7 marks the beginning of the employee campaign for the Mile High United Way fund drive for Denver Aerospace.

The United Way concept of giving to many charities through one fund-raising campaign began in Denver in 1887. The first United Way fund drive raised \$21,700 for 23 human-care agencies. The 1984 fund drive raised \$23.2 million for 88 human-care agencies.

"The United Way organization brings together a cross section of citizens and agencies in a community-wide effort to provide quality human-service programs in the most efficient and effective way," explained Richard E. Weber, personnel and facilities vice president, and chairman of this year's United Way drive at Denver Aerospace. "It works through 97 different social service and health agencies to provide 267 human-care services to people in Adams, Arapahoe, Boulder, Denver, and Jefferson counties.

"Because of the allocations process involving hundreds of community volunteers, you can be sure that your money is used efficiently and effectively," he said.

This year three Martin Marietta employees serve full time as loaned executives to United Way. Bernard P. Wenninger, chief, advanced manufacturing technology group, has been assigned to work on behalf of the United Way's campaign at Martin Marietta. R. Brent Blake, engineering change manager, volunteered to become a loaned executive in the United Way campaign. Gerald L. Herta, security division, is the United Way loaned executive for Data Systems this year.

William G. Seefeldt, manager of marketing and administrative support for Data Systems, is a member of the United Way campaign cabinet and divisional chairman for the manufacturing division. Seefeldt said Data Systems intends to raise \$80,000 this year, up from \$56,000 last year. ■

## PSP values

Unit values for the Performance Sharing Plan as of August (July values in parentheses) were:

- Fund A (indexed equity)  
2.8551113305 (2.8703296124)
- Fund B (fixed income)  
2.2045043528 (2.1829254732)
- Fund C (company stock)  
3.8830027505 (3.9187901285)
- Fund D (TRASOP)  
1.5260704923 (1.5416709833)

## Town Hall's future bright

The Littleton Town Hall Arts Center will start the fall season without debts, thanks in part to a \$10,000 grant from Martin Marietta. The center's fall season had been in financial jeopardy, but the center now has raised \$20,000 to pay creditors and begin the fall season.

William G. Seefeldt, Data Systems marketing and administrative support, was chairman of the committee to save the arts center, and is now president of the board of directors. Arthur E. Koski, director of public relations, is a member of the board. G. Max McGarr, director of accounting, Data Systems, and Harry Kottcamp, deputy director, Information & Communications Systems, presented the check for \$10,000 to the Town Hall Aug 28.

The Town Hall will present Thornton Wilder's "Our Town" in October. ■

## UNC offers new MBA program for employees

The University of Northern Colorado will offer Martin Marietta employees the opportunity to complete a master of business administration (MBA) program through a convenient weekend format.

The degree program will be offered in its entirety with classes scheduled only once. A mutual commitment by both the university and the employee group will assure that the cycle of courses is offered as scheduled. A student who cannot attend a particular class may take that class at one of the other UNC MBA program locations in the Denver area.

An evening information meeting will be conducted by UNC Continuing Education Oct 29. For information regarding time and location, call Natalie Brown, coordinator at the UNC Continuing Education office in Broomfield, at 466-1037, or call the Denver area coordinator at 370-2050. ■



### Company aids Junior Achievement program with donation, volunteers

Dennis Cook, left, director, personnel, presents a \$4000 check on behalf of the Martin Marietta Corporation Foundation to Kim Cielinski, director, marketing for Junior Achievement, and Warren Dean, a volunteer on the Junior Achievement board. This fall three employees—Tom Elbring, Carol Romero, and Jim Libhart—will advise Junior Achievement companies on Wednesday nights at Heritage High. Another employee, John Dominguez, is conducting a Project Business program for a ninth grade social studies class at Goddard Junior High.



Norman R. Augustine



Patrick J. Zilvitis

## Corporate news

### Martin Marietta promotes Norman R. Augustine to executive vice president of the Corporation

Martin Marietta Corporation announced Sept 26 the promotion of Norman R. Augustine, a senior vice president, to executive vice president, effective immediately.

In announcing Augustine's election by the Board of Directors, Thomas G. Pownall, chairman and chief executive officer, said "Mr. Augustine will continue to have the principal executive responsibility for the Corporation's two information systems companies—Data Systems and Information & Communications Systems—and in addition will assume enlarged responsibilities in corporate-wide management as a member of the Executive Office."

Augustine, 50, has been senior vice president since March 1985, after having served since 1982 as president of Denver Aerospace. He joined the Corporation in 1977 as vice president of aerospace technical operations and in 1980 assumed responsibility for engineering, production, quality control, strategic planning, and international operations.

Before joining Martin Marietta, Augustine served as Under Secretary of the Army from 1975 through 1977, having previously served as Assistant Secretary of the Army for Research and Development from 1973 to 1975 and in the Office of the Secretary of Defense from 1965 to 1970.

### Company names P. J. Zilvitis president of Data Systems

Martin Marietta Corporation has appointed Patrick J. Zilvitis, a Perkin-Elmer vice president and former IBM executive, as president of Martin Marietta Data Systems. The company employs about 1,100 people in the Denver area.

Zilvitis, 42, has been vice president of marketing for Perkin-Elmer's Data Systems Group for the past two years and previously spent 17 years at IBM as general manager of IBM's personal computer marketing efforts from 1981 to 1983. He will assume his new duties Oct 1 and will report to Norman R. Augustine, executive vice president of the Corporation.

"Pat Zilvitis brings with him an impressive background of technological accomplishment and management expertise ranging over nearly two decades," Augustine said. "We fully expect his broad experience with Perkin-Elmer and IBM to further bolster Martin Marietta's growth strategy in the fields of information management and software development."

Zilvitis, a native of Detroit, first joined IBM in 1966 after receiving his master's degree in mechanical engineering from the University of Michigan. He is a magna cum laude graduate of the University of Notre Dame.

Zilvitis succeeds Richard J. Walters, who resigned last July. Martin Marietta Data Systems, an operating unit of Martin Marietta Corporation, employs more than 4,500 people in this country and abroad in the design and development of software and the integration and management of large information systems for a broad range of government and commercial customers. Its 1984 sales exceeded \$360 million. ■

## News briefs

### Flora named AFA advisory board member

Gareth Flora, vice president of business development, has joined Major General Joe Moore, commander of the Lowry Technical Training Center, and Joe O'Gorman, president of Frontier Airlines, as new members of the Front Range Chapter of the Air Force Association's (AFA) Board of Advisors.

"The Air Force Association, with its goal of maintaining a strong national defense, benefits greatly from the contributions of such outstanding individuals," said James Clark, Front Range Chapter president, during the Sept 23 announcement.

Martin Marietta has traditionally supported the AFA Front Range Chapter and other area chapters.

### AFA sponsors Soviet awareness briefing

The Front Range Chapter of the Air Force Association will sponsor a "Soviet Awareness" briefing at Lowry Air Force Base on Monday, Oct 7.

The two-hour session begins at 7:30 p.m. and will be conducted by a team of Air Force Soviet specialists. The AFA encourages Martin Marietta employees to attend. A 6:30 p.m. reception at the Lowry AFB NCO Club for Maj. Gen. Joe Moore, the new Lowry Technical Training Center Commander, will precede the 7:30 p.m. briefing. Call Jack Ballard, 7-8975, for more information.

### Ballard named secretary of Front Range Chapter

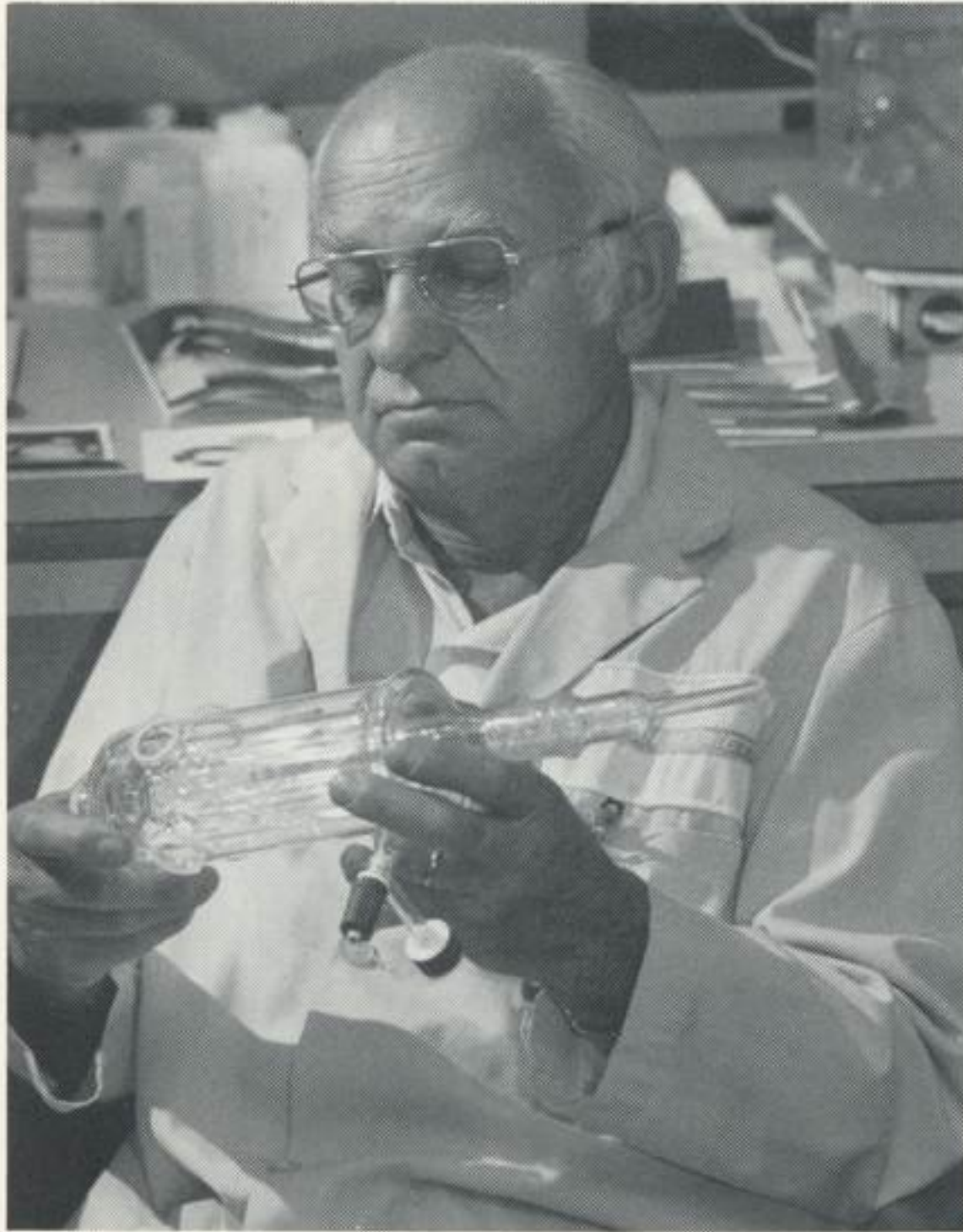
Dr. Jack Ballard, chief of small intercontinental ballistic missile (SICBM) training, was named secretary of the Front Range Chapter of the Air Force Association recently. The chapter is the largest in Colorado.

"Dr. Ballard is one of a number of Martin Marietta employees active in our organization, and we welcome his leadership as one of our key officers," said James Clark, chapter president.

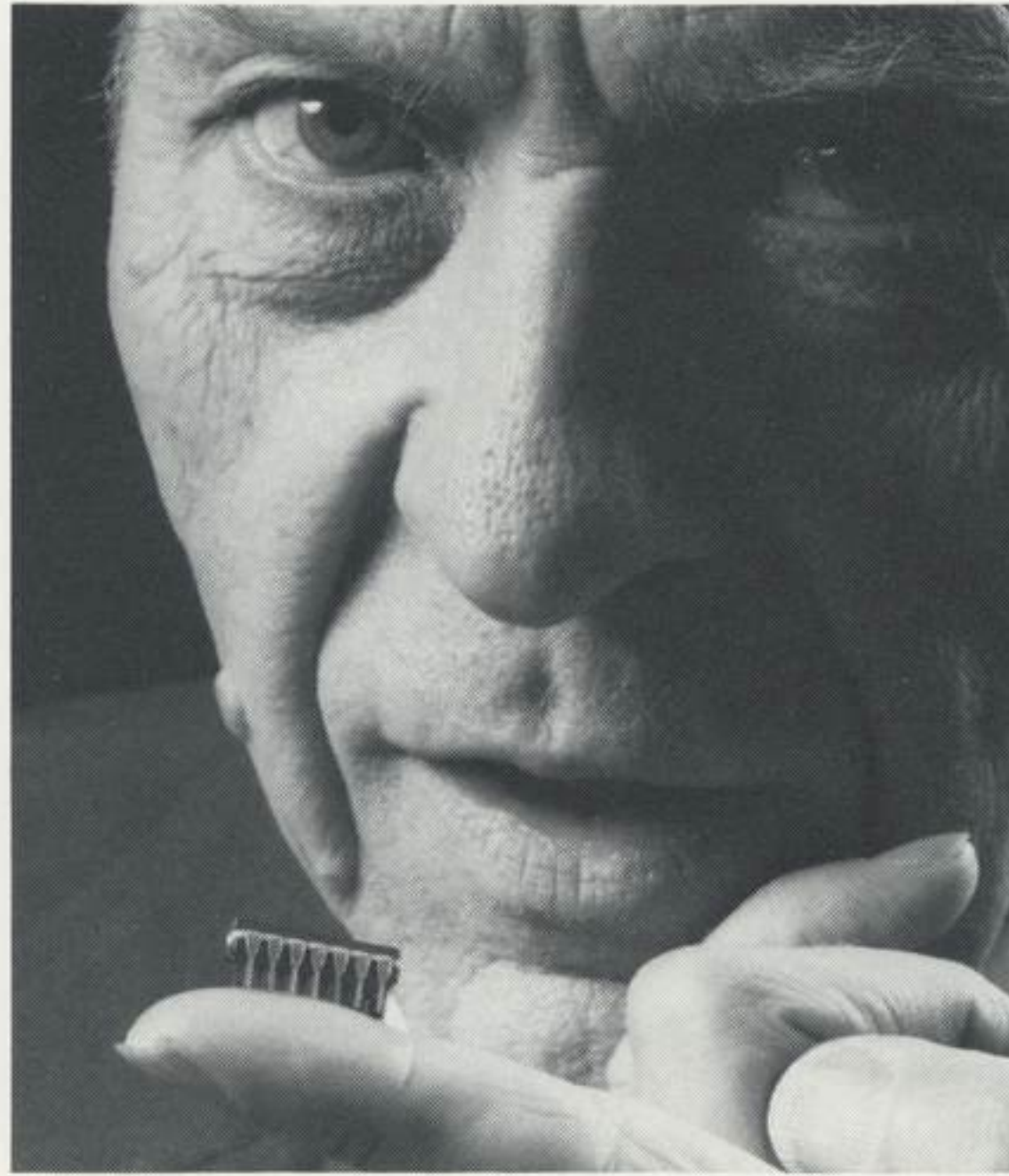
The chapter's goal is to inform the public of the need to maintain a strong national defense.



Mile High  
United  
way



*Czeslaw Deminet, glass technologist, is shown in his laboratory using the application of glass technology to solve various problems. In his award-winning idea, glass was used as a sealing material between stainless steel and zinc selenide for high-vacuum application.*



*Lyle Bergquist demonstrates size of package. The reliability of microchips depends on how completely the package is sealed. The idea Bergquist presented greatly increases the sensitivity of a helium leak detector system. If the package has several sealed compartments, the one that is defectively sealed can be identified.*

## Inventors granted cash awards

Thirty-two awards went to Martin Marietta employees for their recent inventions. The inventions and patents program is designed to encourage creative effort toward the improvement of Denver Aerospace products, and advancement in scientific fields. The program documents significant technical contributions to Denver Aerospace's technology base.

The following employees have been granted cash awards by the Denver Intellectual Property Review Board for their inventions:

**David J. Banerian**, electronics, "Local Subnet Transmission Medium (LTM)"; **Lyle E. Bergquist**, electronics, "Leak Detector for Microelectronic Packages," "A Method to Increase the Sensitivity of a Leak Detector in the Probe Mode," "Contamination Monitor," and "Measurement of Helium Hydrogen Ratio in Liquid Hydrogen Space Storage Tank Vent"; **Frank J. Despain**, electronics, "Contact Retention Testing on MIL-C-38999 Series IV Connectors," and "Referee Test for Contact Height on MIL-C-38999 Series IV Connectors"; **Carl R. Griesbach**, electronics, "Push Pull Resonant Switching Power Converter"; **David J. Jaramillo**, electronics, "Device Solder Lead Dipping Form"; **Steven L. Levine**, electronics, "Programmable 2-100 Mbs BiPhase-L Bit Sync/Decoder"; **Dr. David G. Morgenthaler**, electronics, "Automated Generation of Computer Graphics (CAD/CAM) Models"; **Gordon K. White**, electronics, "Active Cavity Interferometer (ACI)," and "Two-Axis Single Pivot (TASP) Manipulator Joint"; **Neil J. Butterfield**, engineering mechanics, "Volume Measuring Apparatus"; **Brent A. Cullimore**, engineering mechanics, "Passive

Shape Memory Thermal Switch"; **Brent A. Cullimore**, **Roger T. Giellis**, and **Carl L. Jensen**, engineering mechanics, "High Performance Evaporative Cold Plate"; **Patrick G. Hogue**, engineering mechanics, "Fiberoptic Strain Transducer for Composite Overwrapped Pressure Vessels"; **Kenneth A. Karki**, engineering mechanics, "On-orbit Repair of Spacecraft Coatings"; **William D. Nygren, Jr.**, engineering mechanics, "Piezoelectric Lubricator," "Shape Memory Shear Pin," and "Shape Memory Retaining Ring"; **Dr. Robert S. Rudland**, engineering mechanics, "Low-g Ventline Exit Configuration for Space Applications"; **Dale C. Rudolph**, engineering mechanics, "Crossed Link Hinge"; **Scott V. Schoultz**, **John R. Lager**, and **Donald A. Thomas**, engineering mechanics, "Double Cross Bolt Latch"; **Preston E. Uney**, **James R. Tegart**, and **David R. Abbott**, engineering mechanics, "A Means of Expelling Parallel Tanks to Low Residuals"; **Robert R. Ford**, product assurance and system safety, and **Dr. Wayne E. Simon**, engineering mechanics, "Comet Penetrator with Effective Diameter Determined by Impact Material and with Automatic Retention"; **Robert O. Lewis, Jr.**, systems engineering, "Improving RF Survivability"; **Robert A. Zsidisin**, systems engineering, "Optical Correlation of Speech Patterns"; **John A. Johnson**, Peacekeeper mechanical engineering, "Stabilizing Tether"; **Peter J. Bernacchi**, ground electronics production systems I (GEPS I), Information & Communication Systems (I&CS), "EMI, RFI Hook and Loop Reclosable Fastener"; **Czeslaw Deminet**, laser systems technology, Albuquerque Operations, "Ultrahigh Vacuum Bakeable Zinc Selenide Window Seal"; and **Vernon C. Coy**, production operations, Michoud Aerospace, "Mechanical Power Grip—Wire Stripper".

## New suggestion program set for November

Early November marks the beginning of the employee suggestion program at Denver Aerospace.

The program is in response to interest expressed in employee communication surveys. The program will establish a formal method to promote employee motivation, innovation, and recognition through written suggestions, as well as enhance communication in conjunction with management support.

Future issues of the *Martin Marietta News* will carry more details about the program. ■

## Project Referral issues new skills list

The Project Referral program has issued a new targeted skills list of jobs. Department administrators have copies of the new skills list.

If an employee refers someone who is then hired in an area identified on the targeted skills list, the employee earns a \$2000 bonus. The list includes those hired in at labor grade 43 and above. If the new hire has an active and current SBI/EBI clearance, the referral qualifies at labor grade 41 and above.

Those who refer new hires also qualify for a monthly drawing and may win a trip for two to view a space shuttle launch at Kennedy Space Center, FL. ■

### MARTIN MARIETTA NEWS

Published by Public Relations  
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  
Distribution by Dave Bowlin

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

October 4, 1985



### Mill operator makes dramatic safe move

Charles E. Carnahan, far right, operations vice president, presents four tickets to the Country Dinner Playhouse to Eduardo A. Miera, second from left, winner of the first Move Safe program's monthly award. Michael J. McIntyre, far left, Miera's supervisor, also received two tickets to the dinner theater. Both were praised by Joseph A. Broom, second from right, USAF material handling specialist. "It's good to look at a potential accident that's been prevented, rather than one that occurred," Broom said. Miera, a mill operator, was working with the vacuum lift at the Waterton factory when it began to sound different. Miera recognized the danger in the 1960-pound machine, which could drop if it lost pressure, and quickly warned everyone to move away as he lowered the part to the floor. For this first award, Carnahan added a surprise award—a trip to a space shuttle launch for Miera and McIntyre.

### On the cover:

Employees at the four-story Near-Field antenna test laboratory at Waterton have finished work on a contract to test NASA's large space-deployable antenna.

The contract, which began in March 1985, involved electrical testing to ensure that the 49.2-foot antenna meets goals and design standards for NASA's Langley Research Center in Hampton, VA.

"The large indoor lab is an anechoic chamber used to test advanced microwave antennas in an area free of electromagnetic interference," explained Jimmie D. Osborn, program manager of the Near-Field Test Lab (NFTL). The lab replaces long outdoor antenna ranges and is the largest facility of this type in the world.



### First Shift Machine Shop Quality Circle improves area's safety

Members of the First Shift Machine Shop Quality Circle include, left to right, Frank Kraus; Bud Oswalt; Eugene Carter, supervisor; Tom Shank; Bob Gann; Rich Duvall; and Tim Bourdon. The team showed that some minor modifications to the tool storage area, which included moving one machine and cementing the storage floor area, would provide greater safety to personnel and equipment, and better access to needed tooling. The estimated savings, about \$24,000 annually, were reviewed and verified by industrial engineering.

## Summer hire program wins students' praise

Each year, thousands of applicants vie for a handful of jobs in the summer intern program at Denver Aerospace. These jobs range from maintaining the grounds at the recreation center to computer programming for the central cost management department and forms control in management services.

According to Daniel E. Amerman, administrator of college relations, approximately 2000 applications were received for employment last summer. Of those, 128 students were given summer internships.

"There are basic qualifications our department seeks for the summer intern program," Amerman explained. "Students must have completed their junior year of college and have a competitive grade point average. Referrals by employees are always welcomed."

Although many applicants meet these guidelines, a strict budget limits selection. However, those students who do get jobs receive not only a weekly pay check, but also valuable work experience.

Dan Nicholson, a senior at Idaho State University, worked in cost management/estimating. Nicholson believes that "the experience I've gained working the past two summers at Martin Marietta is of great value. Money can't buy experience and that's the key for future employment."

"Getting a firsthand understanding of business life is the underlying benefit of my summer job," stated Mike Baca, a senior at Colorado State University. "Since my major is finance, working in cost estimating is a fantastic opportunity."

Along with departmental job knowledge gained, reported Peter Masi, summer interns are exposed to a variety of programs via presentations made by different members of the company's engineering team. Masi worked in management services and will be a senior this year at Colorado State University.

In June, Joseph A. Fromme gave a presentation on the space station and in July, Joe C. Pohlen discussed the hard mobile launcher. "These presentations are useful because they enable students with a nontechnical background to gain a better overall understanding of a specific project," Masi said.

"These days, I think college students realize that landing a satisfying job fresh out of school is often difficult. Competition among millions of graduating seniors every year is fierce." ■



Brian Gallagher and Carolyn Aldorfer represented Martin Marietta in the third annual Ace of Hearts mixed-doubles tennis benefit for the Colorado Heart Association recently. They played ten opponents and placed second overall, winning the round-robin competition. The weekend benefit in August raised \$8000 for the association.



Members of the Sudsbusters softball team won the Martin Marietta Wednesday night competitive softball league for the third consecutive year by defeating the McCains team 17-12 in the championship game—a season record of 24-2. Pictured are, front row, left to right, Pete Hauck, Russ McQuilliams, Jimmy Christensen, Terry Small, and Ed Battigar. Standing, left to right, are Bill Kiester, Rick LaBonville, Clark Lawrence, Paul Nowak, John Kirar, and Paul Thompson. Not shown: John Barnes, Dan Bell, and Rick Marlette.

## Recreation/employee services

**Bicycling**—Those interested in forming a new bicycle club should join an organizational meeting at 5 p.m. Oct 10, in the SSB cafeteria, to discuss plans.

**Skiing**—The Satellite Ski Club offers a GOLD SKIAMERICARD for \$19 per person and \$9 for each additional family member. Call 7-9474 for membership rates for the Satellite Ski Club, or check the recreation racks for applications. The first ski club meeting will be Oct 9 at the Gart Brothers Sports Castle.

**Bowling**—New fall bowling leagues have formed, with the following times reserved at the Super Bowl, 9670 W. Coal Mine Road; 6 p.m. Mondays for five-member mixed leagues, at \$5.70 each; 8:30 p.m. Wednesdays for five-member men's leagues, at \$5.70 each. Applications for openings on the leagues can be found in the recreation racks and must be submitted to the recreation office by Oct 15.

**Fitness**—A new fitness class begins Oct 14 at Littleton Systems Center in the high bay presentation room. Linda Sanchez and Christine Santos, both certified fitness instructors, will lead the class, from 5-6 p.m. Mondays and Wednesdays. Preregistration for the \$12.50 course is required.

**Dining**—A discount price of \$25 (regularly \$30) is available for the International Gourmets Choice dining program, which offers discounts at more than 130 restaurants. The discounts can be purchased from the recreation office in the Eng Bldg, or from recreation representatives at DSC, GEPS, and Greenwood.

**Archery**—The Red Rock Bowmen will meet at 4:45 p.m. Oct 8, at the clubhouse in the recreation area at the Waterton facility.

**Hunting**—The Skyline Hunting and Fishing Club will meet at 5

p.m. Oct 14, at the recreation clubhouse. The club offers hunter education classes during October. Preregistration is not required. Employees may come to the Wadsworth Bldg at DSC I on Oct 15 to register for the \$7 course.

**Softball**—Two employee softball teams took second and third place in the annual Denver Area Employee Services and Recreation Association tournament Sept 13-14 at Coors Recreation area. The Sudsbusters placed second; McCain's Real Estate won third. The team from Rockwell International placed first. ■



Photo by Dave Shanklin

## Company sponsors family event

More than 4000 employees and their families enjoyed free rides, a 1950s rock and roll band, and treasure hunts during the final company-sponsored family event at Lakeside Sept 7. The park opened exclusively for Martin Marietta employees.