

February 22, 1985 Number 4

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MARTIN MARIETTA AEROSPACE

22 February 1985

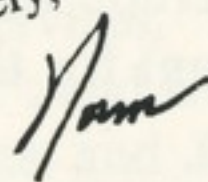
Dear Fellow Employee:

This will be my last formal opportunity to communicate with each of you in my capacity as President of Martin Marietta Denver Aerospace. These three years have passed much too quickly — with a pace that seems all the greater for the enormity of the things you have accomplished. Certainly the highlight, in my view, has been the continuation of our 100 percent mission success record during a period when we conducted forty major flight events.

This has also been a period wherein many new members joined our team and at the same time we had the good fortune to begin to establish two major new operating entities within Martin Marietta. With each individual who has moved on to new and increased responsibilities others have stepped into their place with equal dedication and professionalism. Looking to the future, I know you will give Pete Teets the same extraordinary support that I have enjoyed.

I truly believe there is no finer group of people anywhere than the men and women who *are* Denver Aerospace — each and every one of you at each and every location. Your record speaks for itself. Please accept my sincere thanks and my wish that your own future will hold success in achieving your personal goals.

Sincerely,



Norman R. Augustine



*Thank you message goes to employees who worked 12-hour days, seven days a week to complete first Peacekeeper emplacer on schedule. Congratulating employees at the Waterton facility are, left to right, Stan F. Albrecht, Peacekeeper program director; Peter B. Teets, who becomes president of Denver Aerospace March 1; J. Don Eagen, director, Emplacer Project, Peacekeeper; and Thomas W. Morris, director, production operations, Peacekeeper.*

## First Peacekeeper emplacer arrives at West Coast

The first of two mobile devices to install Peacekeeper missiles in their launch silos has arrived at Vandenberg Air Force Base, California.

The devices, built by Martin Marietta Aerospace, called emplacers, are a key element of the Peacekeeper transportation and handling system. They will be used during the next phase—silo launches—of the Peacekeeper flight test program at VAFB.

The emplacer, resembling a truck trailer, transfers the Peacekeeper stages from transporters into the underground silo. The device is designed to handle loads exceeding 163,100 pounds.

The emplacers are built at the Waterton facility, and the first one was towed via highway 1,400 miles to the California launch site.

The emplacer that left Denver on Feb. 11 will be used initially in training to place inert missiles in silos to verify installation, assembly, and checkout procedures. Later this year, it will be used to install a Peacekeeper for the first test flight from an underground silo to a target area in the Pacific missile test range.

The first eight Peacekeeper test flights, of which seven have flown, are from above-ground launch pads. The program calls for a total of 20 Peacekeeper test flights.

Martin Marietta is the assembly, test, and systems support contractor to the Air Force for Peacekeeper, with responsibilities that include transportation and handling equipment for the missiles. ■

### Benefits report

In order to receive tax-free reimbursement for qualifying 1984 medical bills, all paperwork must be received by the flexible spending account department in Hartford, CT, by March 31, 1985.

If employees have no medical bills, or fail to submit the necessary paperwork, the \$500 will be paid minus federal, state and social security withholding taxes.

Contact the local benefits office for forms and further information.

## Review offers chance to excel

The Air Force Contract Management Division will begin a two-week contractor operational review of Denver Aerospace on February 25.

A team of approximately 36 people will focus on three or more major contracts underway in Denver and measure the accuracy of compliance with contract requirements.

The review team normally follows a trail of documentation from the contract, its invoked standards and specifications, company policies, procedures, and practices used to satisfy contract requirements and to control the way Denver Aerospace conducts its operations.

The team will be presented the normal Denver Aerospace practice of using a Modular Profile to select and apply tailored use of company practices and procedures to ensure efficient and cost-effective performance fully compliant with contract requirements. A Modular Profile refers to that time during generation of a proposal when program management people review and select appropriate documentation, seeking the lowest cost possible within control documents.

Employees can also expect the review team to examine contract performance from the other end of the trail—the deliverable hardware. This will involve examining manufacturing practices, control of quality, productivity gains, and efficient use of trend data from any scrap, rework, or repair required during development of fabrication.

The team is expected to scrutinize records involving management and control of property such as tools and materials, as well as examine selected floor areas involved in receiving, storing, fabricating, inspecting, and shipping products.

Charles E. Carnahan, vice president of operations, is the company lead for the review, assisted by company teams formed under Jim Tughton for product integrity; Richard Hannum for quality assurance; James Porter-engineering; Tom Marsh-manufacturing; Ron Halcomb-executive committee; Jerry Valentine-contract management; and Charles Wood for both subcontract management and materiel. Carnahan and these team members will be the spokesmen for the company in discussions with the review team.

Also, for the purposes of the review, Peter B. Teets, named new president of Denver Aerospace, effective March 1, will fill the roles of both president, and vice president and general manager of Strategic and Launch Systems. ■

# Guests exchange ideas

The conduct of any business requires communications between supplier and customer.

That basic business tenet prompted **Norman R. Augustine**, Denver Aerospace president, to begin inviting a series of guest lecturers to speak to large staff meetings.

Since September, 1982, military officers, Department of Defense (DOD) and NASA executives and scientists, and government leaders have visited Martin Marietta to exchange views between customer and company executives.

The first guest speaker in the series visited Denver Aerospace on September 27, 1982. The **Honorable James R. Ambrose**, undersecretary of the Army, arrived for an overall briefing and later addressed a large staff meeting.

Since then, dozens of others have participated. In 1983, they included: **Gen. James V. Hartinger**, commander of Air Force Space Command and NORAD, on February 15; **Edward C. Aldridge**, undersecretary of the Air Force, on March 1; **Thomas C. Reed**, special assistant to President Reagan for National Security Affairs, on March 11; **Honorable Melvyn R. Paisley**, assistant secretary of the Navy (Research, Eng. & Systems), accompanied by **Dr. Herb Rabin**, deputy assistant secretary of the Navy, and **Harold Kitson**, deputy assistant secretary of the Navy, on April 29; **Brigadier Gen. Fornell**, U.S. Air Force, on September 1; **Gen. James A. Abrahamson**, assoc. administrator for NASA's Office of Space Flight, on September 29; Colorado **Gov. Richard Lamm**, who also flew the manned maneuvering unit (MMU) simulator in the Space Operations Simulation lab, on November 7; and **Gen. John A. Wickham, Jr.**, Chief of Staff of the U.S. Army, on December 16.

Those addressing large staff in 1984 included **Lt. Gen. Winfield W. Scott, Jr.**, superintendent of the U.S. Air Force Academy, on February 29; **Dr. George A. Keyworth II**, science advisor to President Reagan and director, Office of Science and Technology Policy, accompanied by **Col. Maurice A. Roesch III**, assistant director for Defense Technology and Systems, and **Lt. Col. Larry C. Hyden**, senior policy analyst—both in the Office of Science and Technology Policy, on March 5; **Maj. Gen. Aloysius G. Casey**, commander of the Ballistic Missile Office, Air Force Systems Command, on March 27; **Gen. James P. Mullins**, commander of the Air Force Logistics Command, on April 17; **Donald C. Latham**, undersecretary of Defense for Command, Control, Communications & Intelligence (C<sup>3</sup>I), on July 13; **Dr. Richard D. Delauer**, undersecretary of Defense for Research and Engineering, principal advisor for the Dept. of Defense, on July 23; **Dr. Robert S. Cooper**, director of the Defense, Advanced Research Projects Agency (DARPA), on August 1; **Lt. Gen. James W. Stansberry**, (Ret.) commander of the Electronic Systems Div., Air Force Systems Command at Hanscom Air Force Base, MA, on August 13; and **Gen. Lawrence A. Skantze**, commander of the Air Force Systems Command, on August 14.

Those who have addressed large staff in 1985 include Space Shuttle astronauts **Dale Gardner** and **Joseph Allen**, instrumental in rescuing both the PALAPA and WESTAR satellites using the MMU, on January 21; **Andrew J. Stofan**, a director of NASA's Lewis Research Center in Cleveland, Ohio, on February 1; and **Jennifer L. Dorn**, director of the Office of Commercial Space Transportation, U.S. Dept. of Transportation, on February 18. ■



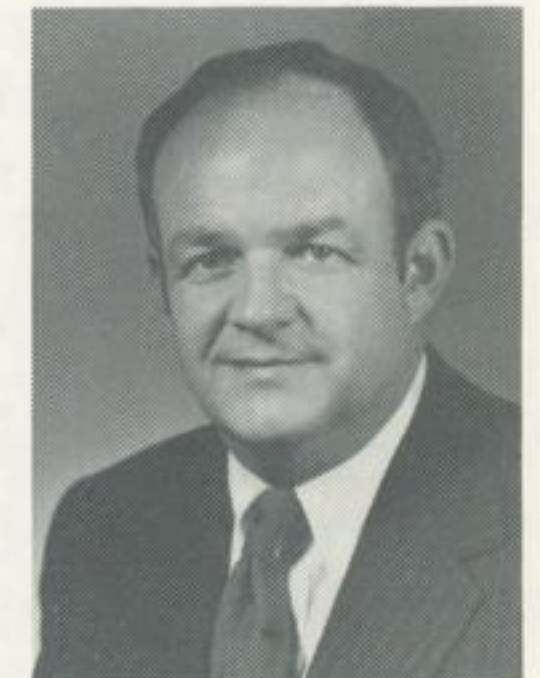
Ambrose



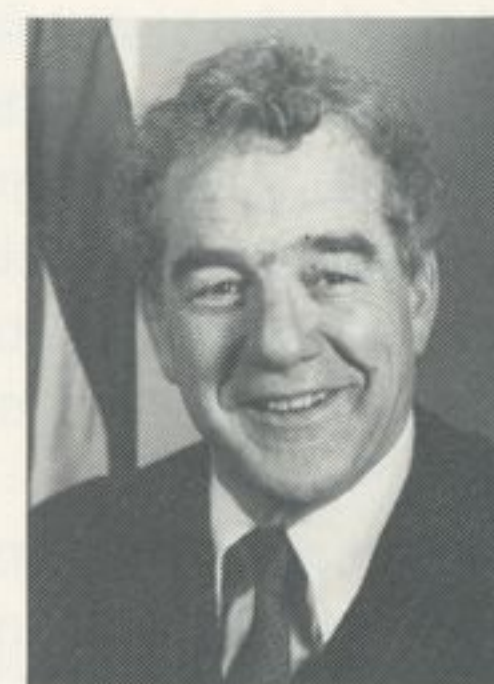
Hartinger



Aldridge



Reed



Paisley



Fornell



Abrahamson



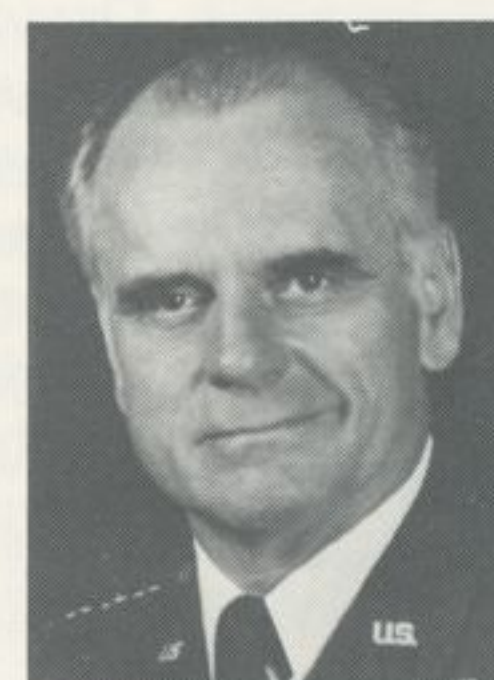
Wickham



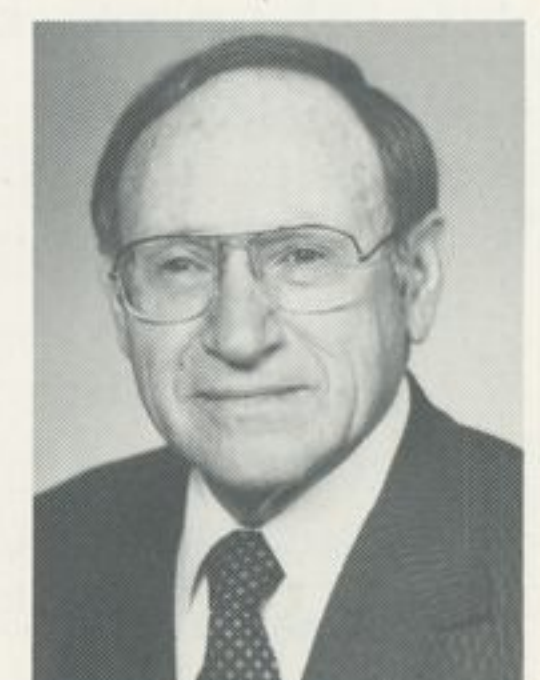
Scott



Casey



Mullins



DeLauer

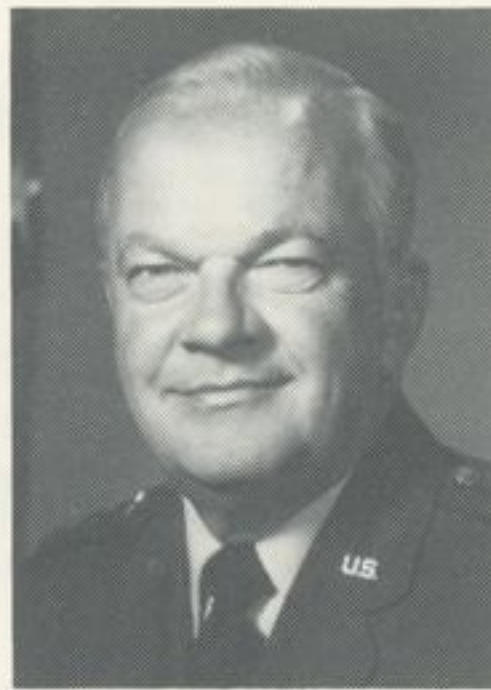


Astronauts Dale Gardner, left, and Joseph Allen, center, accept pictures of the Space Shuttle external tank from Denver Aerospace president Norman R. Augustine, during their visit.

Continued from page 3



Cooper



Stansberry



Skantze



Stofan



Dorn



Lamm



**Last winner picks new winner**—Jim H. Guilfoyle, past winner of Project Referral drawing, draws name of new winner from Judy Phelps, staffing department, recently. The new winner is John R. Bingel, personnel safety. The next drawing for Project Referral will occur in March.

# Corporate digest

## Harwood named vice president

Martin Marietta Corporation announced the promotion of William B. Harwood to vice president of public relations and advertising.

Harwood has been executive director of public relations since mid-1983. An editor of the Associated Press for 13 years before joining Martin Marietta in 1958, Harwood served in various public relations capacities at Cape Canaveral, Baltimore, and New York before becoming director of public relations in 1968.

## Sandoz agrees to acquire Master Builders Division

Martin Marietta Corporation and Sandoz Ltd. of Switzerland announced they have signed an agreement in principle for Sandoz to purchase Martin Marietta's Master Builders division.

Master Builders, headquartered in Cleveland, is a worldwide leader in production and marketing of specialty chemical products for construction. Sandoz is a Basel, Switzerland, based pharmaceutical, colors and chemicals, food, seed, and agrochemical company, with about \$1 billion of sales in the U.S.

## Michoud director elected to national office

Randall A. Tassin, director of facilities and plant services for the Michoud Division, was elected to the board of directors of the American Institute of Plant Engineers (AIPE). During his two-year term as an AIPE vice president, he will head AIPE's certification board, which establishes requirements for plant engineers and facilities managers to earn and retain the Certified Plant Engineer (CPE) designation.

## Copperhead firings score 13-for-13 in U.S., Korea

Copperhead, the laser-guided 155-millimeter artillery shell produced for the U.S. Army by Martin Marietta in Orlando, has scored 13 target hits in 13 firings in separate exercises in the United States and Korea.

Copperhead is designed to provide the Army field artillery with the capability to destroy tanks and other armored targets, moving or stationary, with one laser-guided round.

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## Subcontracts hit all-time high

Subcontracts awarded to small and small disadvantaged businesses by Denver Aerospace hit an all-time high in fiscal year 1984, reports Herb L. Watkins, manager, materiel.

Awards to small businesses totaled \$209.5 million; \$29.7 million went to small disadvantaged businesses.

Brigadier General Donald J. Stukel, commander of the Air Force Contract

Management Division, acknowledged his appreciation of Denver Aerospace for noteworthy contributions, while C. T. Wood, director of materiel and procurement, commended "all Denver Aerospace personnel who are actively involved in increasing participation in government acquisition by small and small disadvantaged businesses." ■

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## Briefing

### Graphic artists win awards

The Society for Technical Communications cited two Denver Aerospace graphic artists in the society's recent competition.

John G. Tieleman won Distinguished First Place and Best of Show awards for his design of a booklet on the manned maneuvering unit (MMU) entitled "A Nice Flying Machine". Robert J. Blackaby won an award of excellence for his artist's concept of the Peacekeeper missile in Minuteman silos. Tieleman also won an award of excellence for his drawing of the SP-100 space power system. ■

### Crowds brave record temperatures to register for institute

About 2400 Denver Aerospace employees braved the cold in January to register for courses at the Denver Aerospace Evening Institute.

Courses filled rapidly, with proposal writing, retirement planning, speed reading, and computer workshops among the most popular.

Registration for the fall semester begins in mid August. Course catalogs will be available early in August. Those interested in teaching a course should contact Betty Hilton, ext. 5226. ■



## EMPLOYEE COMMUNICATION SURVEY

# Survey of 1984 brings results

*(Editor's note: The organization and management development department reports many changes and improvements resulting from the 1984 employee communications survey. The Martin Marietta News will cover departmental improvements in a series of articles as managers and employees respond to data from the survey.)*

Exempt salaried employees from the Strategic and Launch Systems Division (S&LS) identified nine areas of concern, including career advancement.

S&LS management responded to the issues, and initiated a comprehensive review of the division's practices on open position identification and candidate selection. Their improved supervisory appraisal committee (SAC) process has been implemented within the division as a result of the survey.

The improved SAC process, developed with the guidance of John H. Pond, S&LS personnel manager, and Warren G. Beery, S&LS director of technical operations, incorporates Kepner-Tregoe decision analysis concepts. The process provides a structured framework to evaluate prospective candidates against an objective set of selection criteria.

Tony V. Romeo, manager, electrical engineering on Peacekeeper, has used the enhanced SAC procedure and reports significant improvement. After 29 years with Martin Marietta, Romeo said he now must report objectively concerning each candidate selection. ■

*Robert S. Boczon, left, and John A. Shepic, right, received both invention and new technology awards for their idea. The two developed circumferential strain measurement equipment and calibration techniques for use on the external tank. Their approach for obtaining thermal protection system (TPS) material at extreme environmental conditions is credited with solving a major test measurement problem.*

## Awards granted for inventions and new technology

Innovations in science and technology, vital to Martin Marietta, translate into recognition and cash awards for employees as well. Denver Aerospace employees recently granted awards for their inventions include:

**Robert S. Boczon**, engineering/Michoud, and **John A. Shepic**, systems engineering, "Poisson's Ratio Determination of TPS Materials at Cryogenic Temperatures"; **Dr. Wayne E. Simon**, engineering mechanics, "Natural Data Compression", "Facet Data Compression", and "Extreme Image Data Compression"; **Gordon K. White**, electronics, "Q-Ranger"; **Samuel B. Gates**, electronics, "Holographic Bragg Cell Analog to Digital Converter"; **Dr. Harold A. Papazian**, electronics, "Prediction of Surface Tension of Alloys from Modulus Tests"; **Dr. David G. Morgenthaler**, **Keith D. Gremban**, and **John D. Bradstreet**, electronics, "Range Edge Classification"; **Dr. David G. Morgenthaler**, **Keith D. Gremban**, electronics, "Image Surface Error"; **Curtis E. Farrell**, systems engineering, and **Eric F. Bachtell**, engineering mechanics, "Simplified Electronic Mail and Activities Scheduler (SEAS)"; **N. Nolan Pass**, **Rodney P. Blackwell**, and **David T. Ranger**, manufacturing, "Application of Infrared Solder Reflow for Solar Cell to Substrate Production" and "Application of Infrared Solder Reflow for Interconnect to Cell Production"; **Kenneth A. Karki**, **Robert M. Donovan**, **Joseph A. Patrick** and **Michael G. Liphardt**, engineering mechanics, "Black Optical Surfaces"; **Frank J. Despain**, electronics, "Black Flexible Conductive Connector Cover"; **Kayland Z. Bradford**, electronics, "Dimensional Measurement Device for Automated Applications"; **William O. Nobles**, engineering operations/SSD, "Space Station Module Interconnect Concept"; **Neil J. Butterfield**, engineering mechanics, "Fully Redundant

Rod Cutter"; **Dr. L. Kevin Rudolph**, engineering mechanics, "Energy Storage Pulse-forming Network (PFN)"; **James W. Tyndall**, engineering operations/SSD, "Exploitation of Redundancy by Repeated Random Routing to Control Single Event Upset Random Errors in a Spaceborne Computer"; **Mohan S. Misra**, engineering mechanics, "Filament Winding—Vacuum Casting (FW-VC) Process to Produce Continuous Graphite Fiber Reinforced Magnesium Metal Matrix Composites"; **Steven G. Zaiontz**, electronics, "Leadless Chip Carrier Compatible Polymer Thick Film Multilevel Board with Improved Thermal Characteristics"; **Clete J. Siebert**, engineering mechanics, "Dual Fault Tolerant Aerospace Actuator Concept"; **Samuel DiSaverio** and **Thomas S. Nelson**, Canaveral Operations, "Positive Internal Wrench"; **Brian W. Van Horne**, facilities and services, "Universal Binder Spine Insertion Tool"; and **Gloria F. Patterson**, facilities and services, and **John N. Smith**, manufacturing, "Paper Roll Support Adapter".

Those granted awards by the New Technology Evaluation Committee for their new technology disclosures submitted as a result of work on NASA contracts include the following:

**Robert S. Boczon**, engineering/Michoud, and **John A. Shepic**, systems engineering, "Poisson's Ratio Determination of TPS Materials at Cryogenic Temperatures"; **Eric E. Bachtell**, **John V. Coyner**, and **Shailesh S. Bettadapur**, engineering mechanics, "Integrated Analysis Software for Predicting Mesh Antenna Performance"; **David E. Hartley**, production operations/Michoud, "Electronic/Water Leveling System"; and **Robert S. Jamieson**, engineering/Michoud, "An Improved Design for a Portable Plug Pull (Tensile) Test Apparatus". ■

### MARTIN MARIETTA NEWS

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MARTIN MARIETTA AEROSPACE

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

February 22, 1985

## Review passed

Peacekeeper facilities at Denver Aerospace and Vandenberg Air Force Base, CA, successfully underwent a cost schedule control systems criteria (C/SCSC) subsequent application review (SAR) in January.

The milestone demonstrates that the Peacekeeper program provides both customer and Martin Marietta management with objective data to measure performance.

The review of Peacekeeper facilities at Denver Aerospace occurred on Jan. 14-18 and at VAFB on Jan. 21-22.

SAR examines the Peacekeeper Assembly, Test and System Support Contract to demonstrate to the U.S. Air Force compliance with C/SCSC and the company's validated performance measurement system. SAR amounted to the largest customer cost performance review on the Peacekeeper Assembly Test & System Support (AT&SS) contract, involving all levels of program management, 160 cost account managers, and business operations personnel.

Stan Albrecht, Peacekeeper program director, led the Martin Marietta team which assisted the Air Force review team. ■

## Medallions of gold honor employees

The gold medallion banquet held at Vandenberg Air Force Base, CA, in February honored those who made "very special and significant contributions to the aerospace programs" at VAFB in 1984.

Presenting the awards were Felix J. Scheffler, director, Vandenberg Operations, Robert F. Johns, director, Titan Programs, and Richard E. Brackeen, vice president and deputy general manager for Strategic and Launch Systems.

Awardees included Sue C. Bement, Virginia M. Castello, Aubrey Churchman, Jr., Margaret L. Daane, Herman L. Davidson, Bruce W. Fall, Patrico A. Fuegos, Thomas H. Gillard, Robert S. Hamer, Edwin D. Hammond, Lonnie D. Johnson, Richard L. Kline, James R. Larkin, Edlyn L. Mathis, Robert B. McCashen, Mona R. McConkey, Billy R. McDaniel, John M. Nakata, Susan M. Nielsen, Betty L. Nott, William H. Riesbol, Richard M. Ristine, Sivert O. Ross, Francisco M. Taitague, Lester G. Wainwright, Clarence T. Way and John F. Wetstine. ■

## Recreation

**ALPINE**—Rocky Mountain Alpine Club plans the following cross-country ski trips: intermediate skiers, Sat., Feb. 23, Webster Pass area—call Larry Espelage, 7-5376 or 1-5376; snow caving, Sat., March 2, location secret—call Larry Espelage, 7-5376 or Gordon Voss, 7-8288; beginner/intermediate skiers, Sat., March 9, Red Deer Lake—call Dan Hawkins, 7-0727.

**BASKETBALL**—Denver Nuggets discount coupons available from recreation, eng. 124G or check recreation boards for representatives.

**CHESS**—Chess Club's night competition, 6:30 p.m. Wed., March 6, at DSC I, 2nd floor snack area. Call Dick Pickerell, 7-5891.

**PHOTOGRAPHY**—Platte Canyon Photo Club winners, judged by Ned Stephenson, film services chief, and

Charles Parks, photo instructor at Colo. Institute of Arts; (1st - 3rd places): prints - John Speranza; scenic - John Speranza, Nanette Brown, Polly Speranza; nature - John Speranza, Bill Privatsky, Nanette Brown; human interest - Polly Speranza, Bill Bevington, John Speranza; slides - Linda Scott; scenic - Bill Privatsky, Ross May, Linda Scott; nature - Linda Scott, John Smith, Mary Allison; open - Bill Privatsky, Jim Allison.

**RADIO**—Radio Club will meet 5:00 p.m., Tues., March 5, at Ham Shack at top of hill in recreation area. Potential members welcomed. Call Hal Beaver, 7-1575.

**SKIERS**—Discount lift tickets for Vail and Beaver Creek available from recreation office or volunteer representatives. Check recreation boards for information.

## Water tests expanded

Denver Aerospace, as part of its continuing environmental monitoring program, has expanded its groundwater monitoring in response to concerns over possible groundwater contamination at the Kassler water treatment facility below the Waterton plant.

Robert Snodgress, director of facilities and services, said the company this week began drilling six test monitoring holes on Denver Water Board property adjacent to the plant.

"We are proceeding to expand our test monitoring program to see if there has been any migration of groundwater containing organics off our property," Snodgress said. "Following that, we will determine the next step."

In addition, the company has hired two highly qualified private consultants to conduct hydro-geological and risk assessment studies. They will supplement the consultants who have been retained by the company for several years.

Denver Aerospace officials, in a continuing effort to deal with groundwater contamination concerns, met last Friday (February 15) with representatives of the Colorado Department of Health (CDH) and the Environmental Protection Agency (EPA). The health officials were briefed on the company's environmental program and future plans, and toured the plant.

Snodgress outlined the company's intention to take care of any environmental problems with its own funds and people as quickly as possible. However, both Martin

Marietta and the health officials agreed that detailed analytical data is needed before a plan of action can be worked out. Snodgress said the new test holes should help provide that data.

The latest company action is a continuation of a program begun more than five years ago. The program is being accelerated in response to CDH, EPA, and Denver Water Board concerns that trichloroethylene (TCE), an industrial solvent used industrywide in the past, may be contaminating groundwater flowing from the Waterton plant toward Kassler. The Water Board has detected very small amounts of TCE in a gallery at its Kassler treatment facility, and has closed that gallery.

Denver Aerospace discontinued widespread usage of TCE more than 10 years ago.

The company has carried out an aggressive monitoring program since organics, including TCE, first were detected in monitoring wells on company property. ■

## Volunteers needed for VISTA youth service

The Denver Youth Employment VISTA Project needs volunteers to assist youth agencies in the area of jobs and careers.

For further information, call Irene Blatnick, the Mayor's Commission on Youth, 575-3955, or write Fitzroy Newsum, Denver Aerospace public relations, mail stop 1200. ■