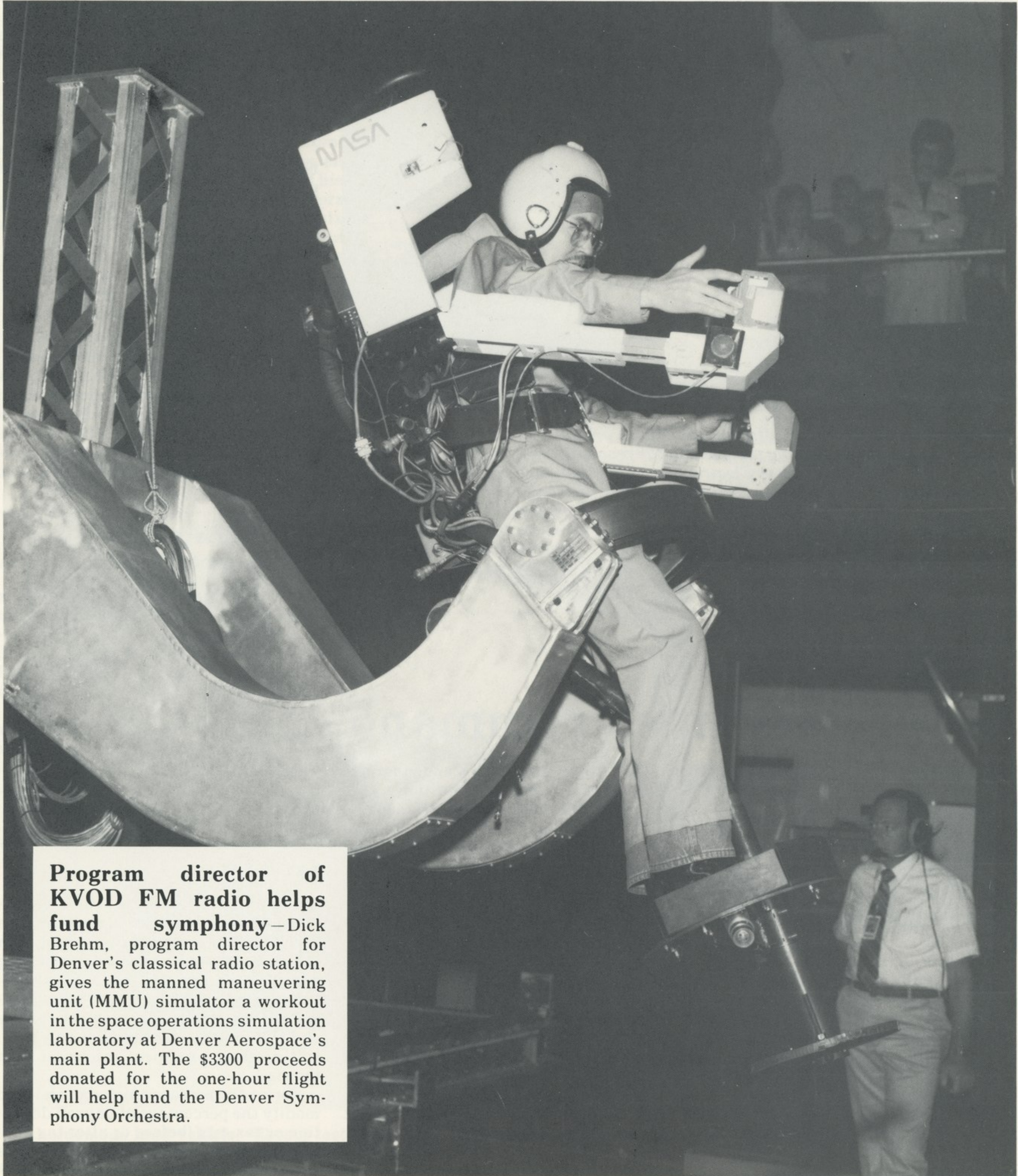


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April 19, 1985 Number 8



Program director of KVOD FM radio helps fund symphony—Dick Brehm, program director for Denver's classical radio station, gives the manned maneuvering unit (MMU) simulator a workout in the space operations simulation laboratory at Denver Aerospace's main plant. The \$3300 proceeds donated for the one-hour flight will help fund the Denver Symphony Orchestra.

Briefing

Photographers featured on cover

Aviation Week magazine featured cover photographs by two Martin Marietta photographers in two consecutive issues.

The April 1 issue featured a cover photograph by Bruce W. Fall, Vandenberg Operations, CA, of the space shuttle launch complex at Vandenberg, showing the orbiter Enterprise recently mated with a flight external tank and solid rocket boosters to evaluate launch support systems.

The April 8 issue of Aviation Week featured a cover by Denver Aerospace photographer Patrick H. Corkery, showing a full-scale mockup of the transfer orbit stage (TOS) and its space shuttle support cradle at the main plant.

Dash to address graduates

Dr. Edward F. Dash, chief, educational services, and a psychologist, was selected to deliver the commencement address to the graduating class at Adams State College in Alamosa this year. Dash also will discuss stress in the industrial environment at the college on Saturday, May 11.

Running club supports marathon

The Shepherders Running Club is supporting the Denver Mayor's Cup Marathon on Sunday, May 5. Volunteers are needed to work the aid station. All volunteers receive a long-sleeved t-shirt imprinted with the marathon logo.

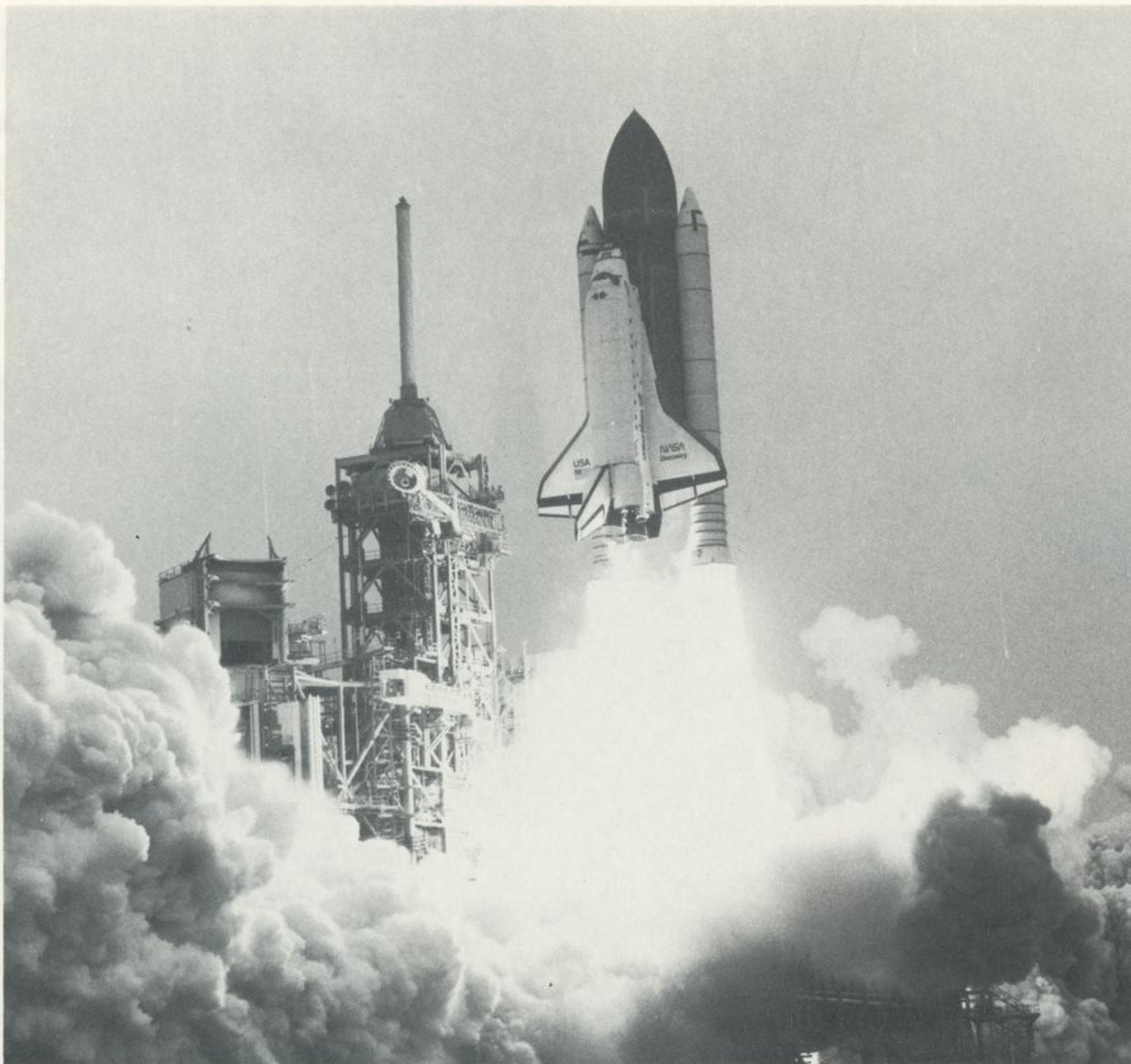
Call Susan Douglass, ext 7-6596, or Clare Bena, ext 7-4764, to volunteer today.

PSP: Open enrollment begins in May

The month of May provides an opportunity for salaried employees to enroll in the Performance Sharing Plan or elect changes in their existing coverage.

New employees (exempt and nonexempt) with at least 6 months of service and 1000 hours of service as of July 1985, will receive enrollment information in the mail.

Forms for participants who desire to modify the percentage of payroll deduction or tax mix (before or after tax contributions) will be available at locations to be announced in the next few weeks. ■



The space shuttle Discovery lifts off from Pad A on April 12th for a 5-day mission with its crew of seven. During the mission the crew launched Telesat I, Syncom 4, operated the Continuous Flow Electrophoresis System and the American Flight Echocardiograph Experiment. In addition, the orbiter carried 2 student experiments and 2 Get Away Canisters. The crew was composed of: Karol J. Bobko, commander; Donald E. Williams, pilot; Mission Specialists M. Rhea Seddon, S. David Griggs, and Jeffrey A. Hoffman; and Payload Specialists Charles L. Walker, and U.S. Senator E. J. "Jake" Garn.

Yager retires; Severo assumes command



Col. Yager



Col. Severo

After more than 8 years of close association with the space shuttle and its operation, Col. Walter S. Yager, Shuttle Activation Task Force (SATAF) commander at Vandenberg Air Force Base, CA, retired from the U.S. Air Force on March 29.

Vandenberg space shuttle operations are now managed by the 6595th Shuttle Test Group, headed by Col. Orlando C. Severo, Jr.

Col. Yager moved to Vandenberg in August 1981, where, in addition to his duties as SATAF commander, he was program manager for the Vandenberg Launch and Landing Site for the Space Transportation System.

Col. Severo's positions have included project manager for space shuttle communications, chief of the computer systems and shuttle engineering divisions, and vice commander of the 6595th Shuttle Test Group.

In 1984, Col. Severo became deputy manager of the National Space Transportation System at Johnson Space Center, Houston, TX. He worked with the Kennedy Space Center, Marshall Space Flight Center, and Johnson Space Center during the orbital flight test phase and the payload capability demonstration phase of the space shuttle program. ■

Martin Marietta Foundation

High school seniors whose parents are Denver Aerospace employees have been awarded 1985/86 college scholarships by the Martin Marietta Foundation.

The fifteen students come from the greater Denver area, the Michoud Division in Louisiana, and Vandenberg Air Force Base, CA. Each freshman receives a \$3000 scholarship, which can be renewed for three additional years, depending on academic achievement while in undergraduate school.

The fifteen were chosen from among 105 applicants, and determined by a non-Martin Marietta selection committee.

Scholarship winners include:



Dana C. Anderson, son of Mrs. and Mr. Myron H. Anderson, attends Arapahoe High School, CO. The 18-year-old's father is a staff engineer. Dana plans to pursue a bachelor's degree in chemical engineering and

managerial studies. He was treasurer of the National Honor Society, a member of the school's tennis team and a community soccer team, and a personal tutor.



David L. Anselmi, son of Dr. and Mrs. Robert T. Anselmi, attends Littleton High School, CO. David's father is a Denver Aerospace research chemist. David plans to pursue a degree in electrical or aeronautical engineering,

and his projects have included search and rescue work for the Arapahoe Rescue Patrol, emergency medical care, rock climbing, competitive swimming, and debate.



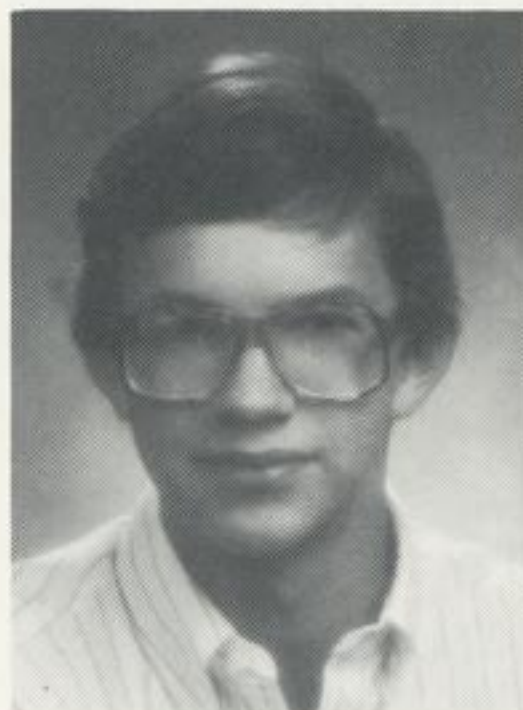
Paul B. Benfield, son of Mr. Wilcombe A. Benfield, deceased, who was a mechanical engineer until December 1984, and Mrs. Benfield, attends Arapahoe High School, CO. Paul expects to major in aeronautical

and aerospace engineering. He participated in student government for 4 years, and is a member of the National Honor Society. On his own time, Paul flew aviation radio-controlled aircraft and also earned his private pilot's license in November 1984.



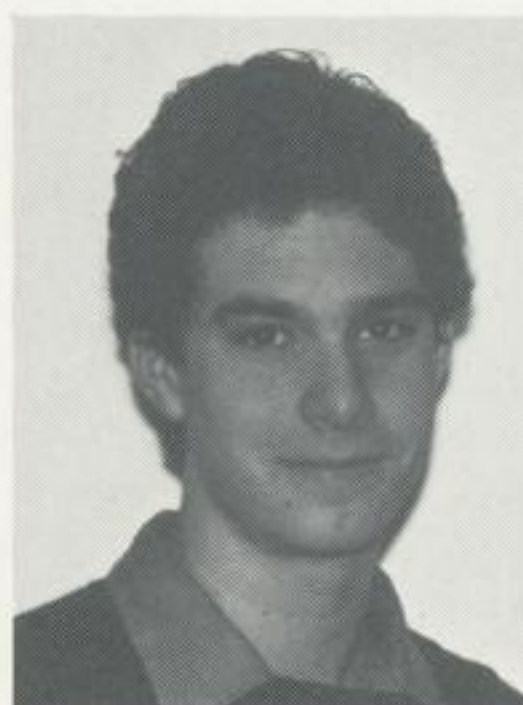
Geoffrey M. Christian, son of Mr. and Mrs. Gary K. Christian, attends Columbine High School, CO. Both of the 18-year-old's parents work for Martin Marietta. His mother, Suzanne, is an administrative secretary.

His father is a design engineer. Geoffrey plans to major in political science. He was a counselor for three Outdoor Education Labs for elementary school students in the Rocky Mountains, volunteered time for disabled children, and played high school basketball for 3 years.



James L. Dautenhahn, son of Mr. and Mrs. Timothy G. Dautenhahn, attends Slidell High School in Louisiana. His father is a contracts administrator at the Michoud division. James plans to major

in chemical engineering. He is a member of the track team, the Drama Club, and the school literary magazine, and has been named a National Merit Semifinalist. In addition, he tutors others on his own time. James is the third member of the Dautenhahn family to earn a Foundation scholarship.



Michael G. Del Monte, son of Mr. and Mrs. George Del Monte, attends Pope John Paul II High School in Slidell, LA. His father is a group engineer for the Michoud division. Michael plans to earn a mechanical

engineering degree. He has played varsity soccer, lettering his junior year, competed in Junior Achievement competition, is a National Merit Semifinalist, and was selected to Who's Who in American High Schools.



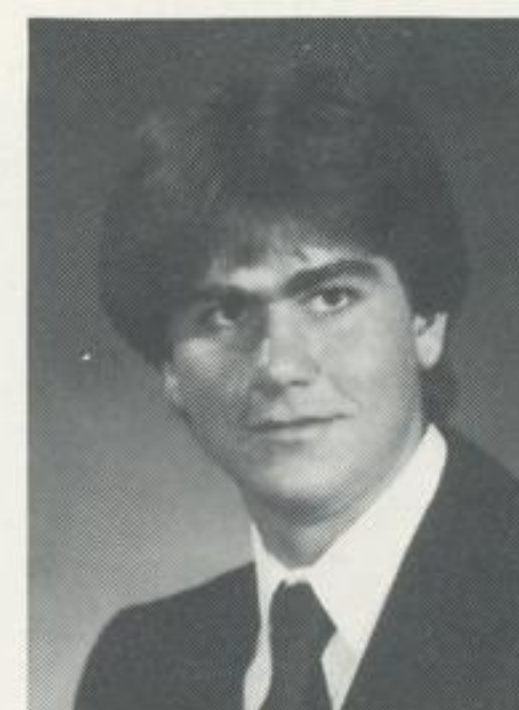
Huey L. Gardner, Jr., son of Mr. and Mrs. Huey L. Gardner, attends Chalmette High School, LA. His father is a materiel planning and status specialist at the Michoud division. Huey plans to major in aerospace engineer-

ing, and has earned certificates of accomplishment in English, math, social studies, computer science, and general business. He also earned recognition at the District Literary Rally in LA, and has been a Boy Scout for 8 years.



Matthew J. Leary, son of Mr. and Mrs. James B. Leary, attends Arapahoe High School, CO. His father is a senior staff engineer. Matthew expects to major in engineering physics and computer science. He is a self-

taught computer programmer, has learned several computer languages, and is a member of the Key Club.



Kelly C. Lee, son of Mr. and Mrs. Ralph E. Lee, attends Cabrillo High School in Lompoc, CA. His father is a logistics engineering supervisor at VAFB. Kelly plans to major in chemical engineering. He is a member of the

Science Club, Scholastic Federation, and track team, from which he earned a varsity letter and all-league honors his junior season.



Jan M. McKinnis, daughter of Mr. and Mrs. James A. McKinnis, attends Heritage High School, CO. Her father is a senior staff engineer. Jan earned a 3.99 grade point average, is on the school tennis team and club rac-

quet ball team, and is a snow and water skier. She also will have completed two advanced placement courses in calculus and European history and will take an advanced placement exam in English this spring.

elects scholarships



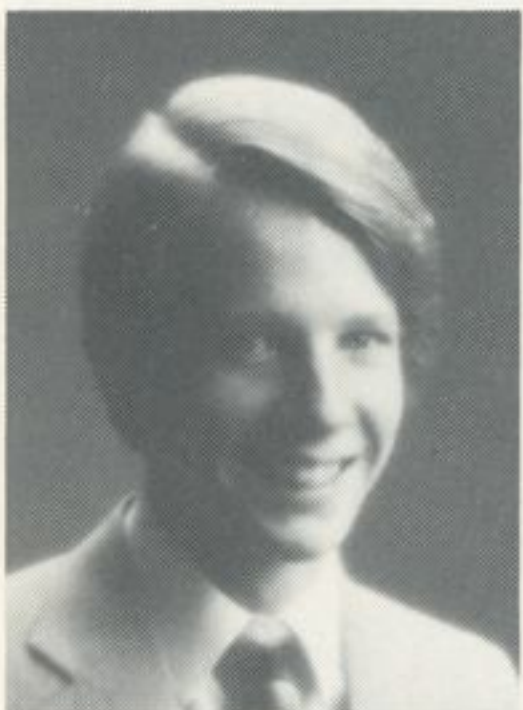
Elizabeth A. Omer, daughter of Mr. and Mrs. Robert G. Omer, attends Heritage High School, CO. Her mother, Patricia, and father are Denver Aerospace software engineers. Elizabeth expects to major in computer science.

She is a member of the diving team and marching band at school. She is vice president of the Key Club and a member of the National Honor Society, and holds the school record in high jump.



Stephanie A. Smith, daughter of Mr. and Mrs. William C. Smith, attends Mitchell High School, CO. Her father is a staff engineer in test operations. Stephanie plans to major in engineering. Her primary interest

has been gymnastics and she lettered 3 years on the varsity team. She is active in student council, is president of her senior class, and a member of the National Honor Society. She hopes to enter medical school after undergraduate training.



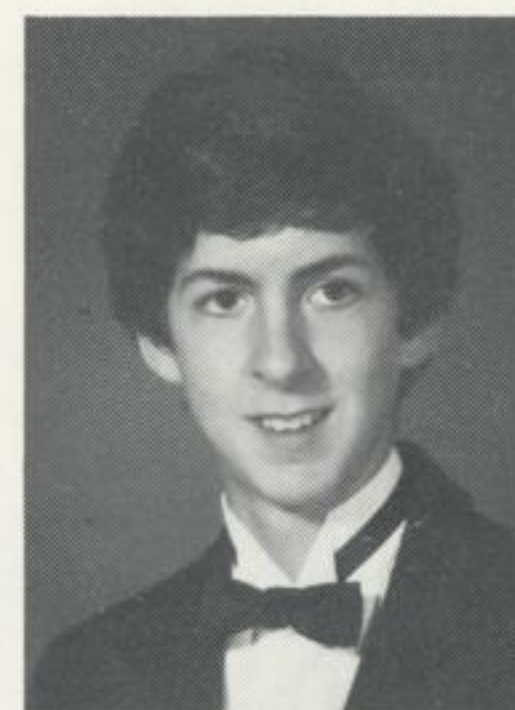
Shawn C. Steele, son of Mrs. Meredith L. Knott, attends Lakewood Senior High School, CO. His mother is a software engineer for Denver Aerospace. Shawn plans to major in electronics engineering and

computer science, with a minor in aerospace engineering. He hopes to become a mission specialist for the space program. Shawn helped found the school's computer club, has acted with the drama club, and works as a freelance computer programmer.



Michael J. Wasinger, son of Mr. and Mrs. James Wasinger, attends Wheat Ridge High School, CO. His father is a software staff engineer. Michael plans to major in engineering and applied physics. He studied

calculus and computer science independently; and then applied it to his scholastic studies. He also volunteered for Wheat Ridge Cablevision. Michael is employed by a geochemical company and works with computers.



Mark D. Wheeler, son of Mr. and Mrs. Damon J. Wheeler, attends St. Stanislaus High School, MS. His father is manager of contracts administration at Michoud. Mark plans to major in computer engineering. His

major interest has been computer programming, but he plays basketball and soccer and has a solid academic record, making the President's Honor Roll with a 4.0 average. He has been a Boy Scout since the eighth grade. ■

Volunteers help avoid fires

As a fire, the three-day blaze that swept through Deer Creek Canyon in 1978 wasn't too disastrous in terms of deaths and serious injuries.

But Art Vos, who heads the volunteer fire effort for Martin Marietta, knows it could have been much worse. "It came within 1500 feet of our property," Vos said, "and destroyed more than 3300 acres of brush and forest."

While Vos manned the command post 22 hours a day for three days, about 240 employees from Martin Marietta were on the fire lines, helping to extinguish the fire.

As chief of the auxiliary fire brigade and auxiliary security forces, in addition to his regular job as program planning change manager for defense systems, Vos spends three to six hours a week working in conjunction with plant protection, under Al J. Sulzer, chief. Some 500 employees also volunteer their time training as fire fighters, coordinators of each building in the event of an emergency, or as back-ups to security.

More volunteers are needed, Vos said. To volunteer, call Art Vos, ext 1-8351. ■

YOUR TAX-FREE TUITION FUND.



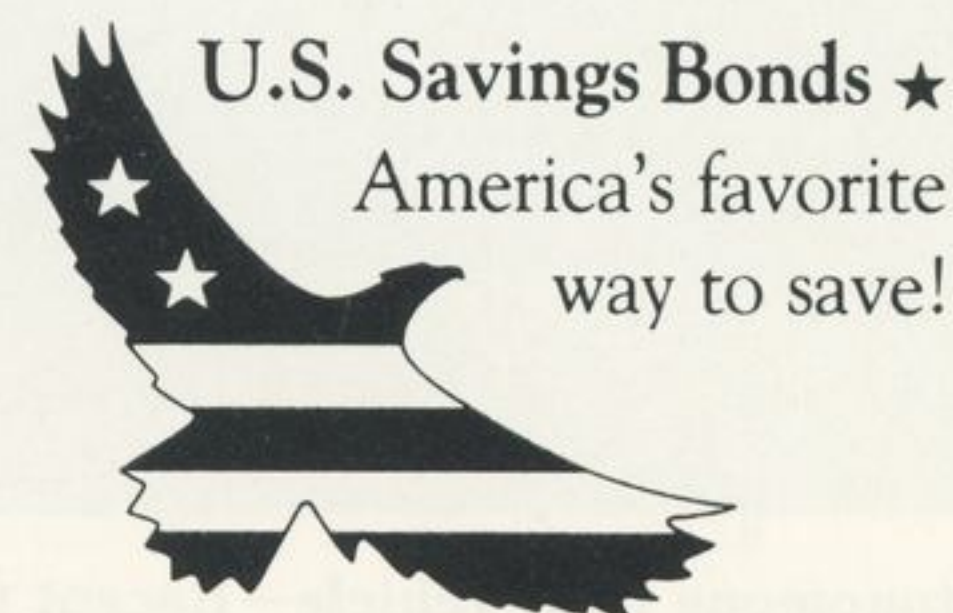
Do you know how you can start a tuition fund for each of your children that can be effectively *tax-free*?

It's easy—just buy new *competitive-rate*

U.S. Savings Bonds in their names through the Payroll Savings Plan where you work. Each child can own Bonds earning up to \$1,000 in interest each year not subject to taxation, assuming they have no other income.

Today's Savings Bonds make college more affordable for your family—with high market-based interest, guaranteed earnings, and great tax benefits. And as always, Bonds are safest investment you'll ever find.

Buy U.S. Savings Bonds for your family's future where you work or bank—and build a college fund you can count on.



U.S. Savings Bonds ★
America's favorite way to save!

How to have fun—and earn money—from ideas

Martin Marietta has a carefully designed system for reporting and rewarding new ideas.

Unfortunately, reports Wayne E. Simon, principal scientist in the mechanics department, most employees don't use it and don't know how to use it. In 1984, 88 new ideas were submitted to the system from a total of 15,000 employees.

The reporting system is designed to benefit both the inventor and the company. The employee, by spending an hour or so filling out a description of his new idea on "Idea Report B," triggers an evaluation of his idea by three to six of some of the most creative people in the company. These evaluations and the idea will, in 2 or 3 months, be judged by the Denver Intellectual Property Review Board.

Nearly half of the ideas reported have been voted an award from \$150 to \$1500, plus a letter from the Denver Aerospace president, reported Simon. "It's a lot of

fun," Simon said, Simon has made about 60 disclosures in the last 15 years of his 25 years with the company—about four ideas each year.

Simon suggested that employees remember that the award represents a judgment that the idea is valuable to the company. Ideas that don't relate to company business are unlikely to receive awards.

"When you fill out "Idea Report B," he explained, "be sure you present a sales pitch. This is your opportunity to promote a worthwhile idea, that it merits further development, and that you should have an award. Keep the writing clear, simple, short, and typewritten."

Simon suggested that when an employee develops an idea to solve a problem, the person should take the time to complete a report and turn it in. For those employees who have never submitted a new idea report, Simon offers information and advice at ext 7-3449. ■

Notes from personnel safety

Within the main plant are many areas where materials and equipment are hoisted by overhead cranes.

By following three simple rules, potential hazards from lifting activities can be avoided:

- Never work, stand, or walk beneath a suspended load.
- Never enter an area where there is a suspended load without the permission of the lift supervisor and/or safety personnel.
- Listen and look for visual or audible signs of overhead crane activity, such as signs, lights, or bells.

Company wins LANTIRN contract

The Air Force has awarded Orlando Aerospace an \$87 million contract to begin production of navigation pods for its Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN). The award enables Martin Marietta to buy specialized factory equipment and produce the first two of 700 navigation pods.

LANTIRN, developed for the Air Force by Aeronautical Systems Division at Wright-Patterson Air Force Base, OH, consists of navigation and targeting pods mounted on tactical aircraft and a headup display in the cockpit. Production of the targeting pod is scheduled to begin in the spring of 1986. ■



Autonomous land vehicle—Recent test run of the ALV by remote control at the main plant indicates progress toward a May demonstration of the vehicle's capabilities.

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MARTIN MARIETTA AEROSPACE

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

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Photography by: Pat Corkery

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

April 19, 1985



Peter B. Teets, Denver Aerospace president, second from right, joins Robert Zermuehlen, section manager, guidance and controls; Louis A. Morine, program manager, R2P2; Robert J. Molloy, program director, strategic defense initiatives; and Morris H. Thorson, vice president and general manager, space systems division, at the R2P2 construction site.

Enrollment advice given April 24

Representatives from various front range colleges and universities will be at Martin Marietta's Waterton plant on Wednesday, April 24, to advise those employees who wish to enroll.

The sessions will be held in the second floor cafeteria of the Engineering Building from 2 to 4 p.m.

Represented will be the University of Colorado at Denver; University of Colorado at Boulder (CATECS); University of Denver (including D.U. Weekend College and D.U. New College); Regis College MBA and Regis College RECEP II Program; Colorado School of Mines; Colorado State University (SURGE); Webster University; Loretto Heights College; Metropolitan State College; Columbia College; Arapahoe Community College; Red Rocks Community College; University of Northern Colorado (CSAP); and the State of Colorado Professional Engineers Board. ■

New construction to house simulator of space-based laser

Martin Marietta has begun construction of the Rapid Retargeting and Precision Pointing (R2P2) Simulator. The objective of the simulator is to evaluate the rapid retargeting performance of the space based laser in a precision control environment. The simulator incorporates dynamic motion, flexible body effects and active disturbance isolation.

The Defense Advanced Research Projects Agency (DARPA) sponsored a \$2.2 million contract to conceive and de-

sign a rapid retargeting laboratory experiment that has just completed its critical design phase. An additional \$6.7 million contract with the Strategic Defense Initiative Organization has started, to build and evaluate the R2P2 simulator.

When completed in December 1986, the simulator, located on stable rock at the Waterton facility, will provide an environment necessary for precision pointing requirements. ■

Ice Capades draws large crowds

More than 21,000 Martin Marietta employees and families attended special performances of the Ice Capades on April 10 and 11.

Featured skaters included Olympic Gold Medalist Scott Hamilton and Silver Medalists Kitty and Peter Carruthers.

The event marked the second of four company-sponsored family events planned for 1985. The next event will be the Shrine Circus on June 15. All tickets have been reserved and will be distributed in late May by department administrators.

The final event of the year will be an exclusive Martin Marietta day at Lakeside Amusement Park on September 7; tickets will be available in mid-August. New employees who did not have the opportunity to reserve tickets will be able to receive Lakeside tickets. ■

Recreation

Alpine—The Rocky Mountain Alpine Club will meet at 7:30 p.m., Friday, April 26, at Dan Hawkins' house. Call for directions, ext 7-0727. Guests and new employees welcomed; experienced hikers interested in leading trips needed.

Corporate Games—Those who wish to qualify for the Corporate Games on May 4 & 5 at Arapahoe College Tennis Courts need to mail entry form and check to recreation, MS 1321 by April 23. Tournament for "A" and top "B" players, only. Fee: \$4/per person.

Discounts—In the interest of promoting health and fitness, the rec/employee services office has made discount memberships available at four area health clubs: The Valley Racquet Club at Ken Caryl Ranch; The Sports Club; Highline Athletic Club; and Nautilus Fitness Centers. Flyers with further information on each club can be found in recreation racks.

Golf—Martin Marietta Partner Best Ball contest starts at 7:30 a.m., Sat., May 18, at Riverday (Adams County) Golf Course. Only Denver Aerospace, Data Systems, Air Force, and retirees eligible. Fee of \$18 (due at time of registration) includes green fees, cart, lunch, and door prize drawing. To enter, send entry blank to recreation dept. by May 3.

Tennis—The 1985 spring tennis tourney begins May 28. Registration deadline: April 23. Send entry form to recreation dept, MS 1321. Call ext 7-6750 for information.

Photography—Platte Canyon Photography Club will feature guest speaker Joe Lange, and slides of his recent trip to Africa, at 7:00 p.m., Thursday, April 25, at DSC, room 200K. RSVP to John Smith, ext 7-6751.

Theatre—Mann Theatre Corp. has changed their offer for discount movie tickets. The discounts are now accepted Sunday through Thursday only; tickets are stamped "not good Fri. or Sat." ■