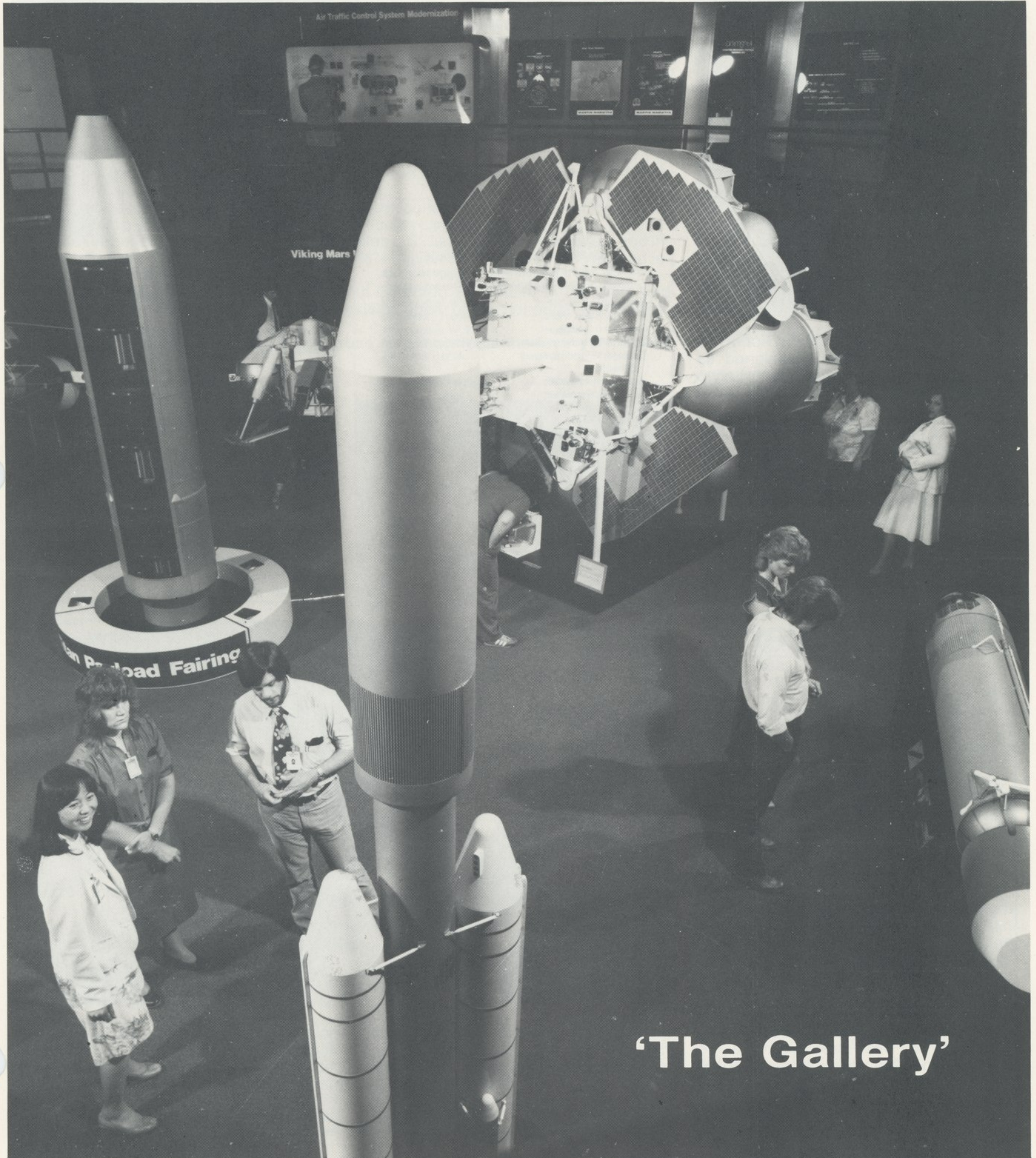


Number 13/1984



'The Gallery'



Fields

Fields to head Canaveral ops

Wendell E. Fields has been named director of Canaveral operations in Florida for Denver's strategic and launch systems division.

The Colorado native succeeds Robert D. Rhodus, who has been reassigned as technical operations director, reporting to James W. McAnally, vice president of defense systems.

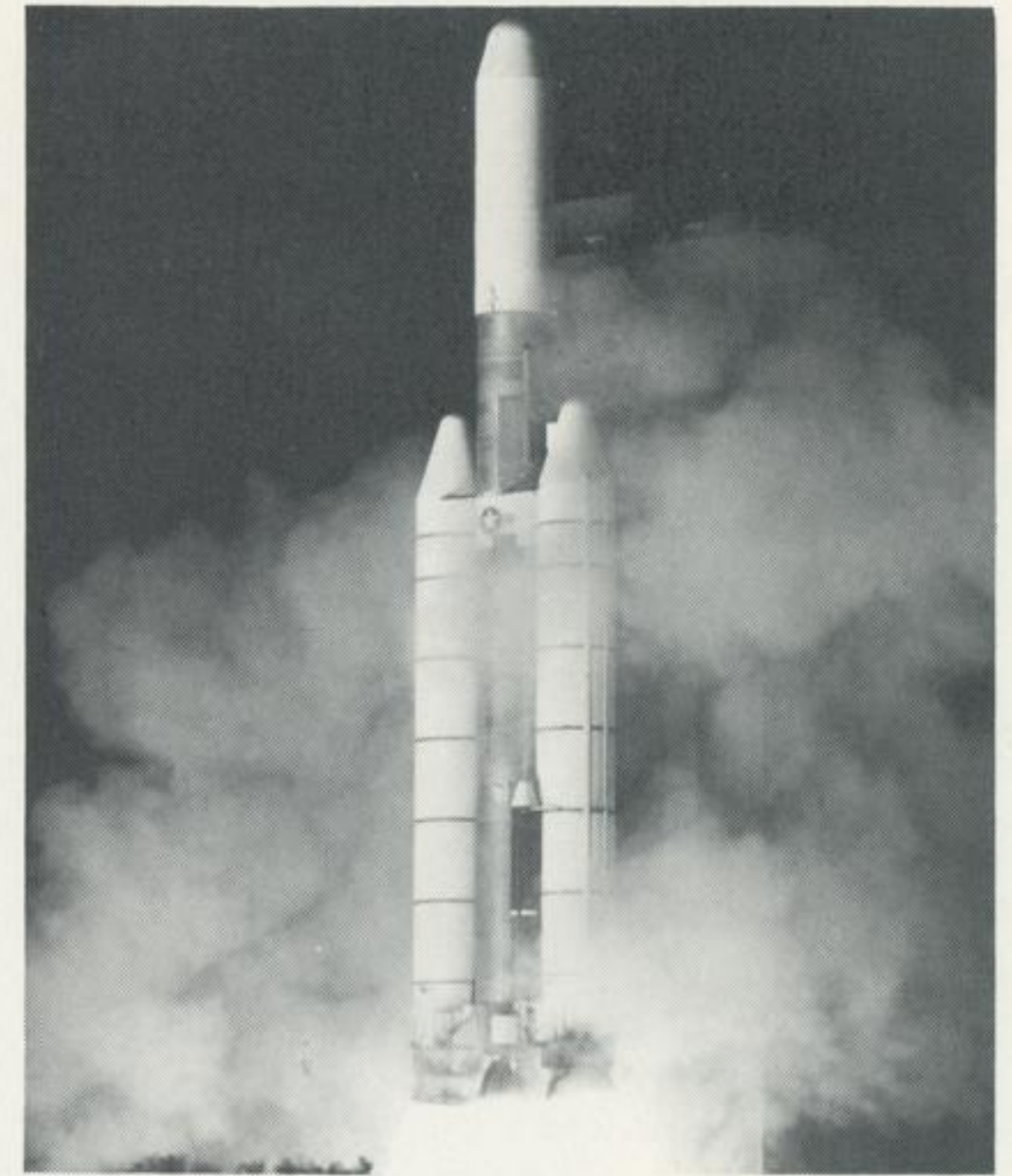
Fields, who had been director of business operations for Vandenberg operations at Vandenberg Air Force Base, CA, will be succeeded there by Otha Jones, former director of cargo operations for ground support systems (GSS).

John Best, manager of cargo technical operations, has been appointed acting director of cargo operations.

Second Titan launched from Vandenberg AFB

The June 25th flight of an Air Force Titan 34D standard space launch vehicle from California's Vandenberg Air Force Base was the 125th in a string of 128 operational launches since 1967 for the Titan III/34D series of space boosters.

Part of the family of Titans designed and built by Martin Marietta that have operated successfully for a quarter of a century, that latest from Vandenberg was the second from that air base. The first was launched June 20, 1983. Two others have been launched from Florida's Cape Canaveral, the most recent April 14. The first was launched from the Cape October 1982.



Titan

LSC lots answer Mineral park ban

All three new parking lots at Littleton Systems Center (LSC) are scheduled to be open by July 2 to accommodate employees and visitors when a city-ordered parking ban for both sides of West Mineral Avenue, adjacent to the offsite facility, takes effect.

The City of Littleton announced this week "No Parking Anytime" signs are being installed in that area. The parking prohibition is aimed at enhancing pedestrian and vehicular traffic safety on the newly paved avenue from Broadway to Santa Fe Drive and increasing visibility along the thoroughfare.

MARTIN MARIETTA NEWS Published by Public Relations MARTIN MARIETTA AEROSPACE

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

July 6, 1984

On the cover

The Gallery, a showplace of exhibits and models highlighting more than 25 years of Denver Aerospace accomplishments, will be open to employees every Tuesday from 11 a.m. to 1:30 p.m. During those special summer employee hours, a public relations representative will be available to answer questions and give brief explanations. Employees who would like their families to tour The Gallery should go through customary security channels (ext 5116) to arrange to bring them in.

Business-related scheduling of The Gallery will continue to be handled through public relations, ext 5364. The Gallery entrance is located at the northeast corner of the general purpose laboratory's (GPL) old centrifuge facility. Showcasing the company's wide range of products, experience and capabilities, the museum has been used extensively for more than a year with customers, potential customers, important guests, and employees. Recent visitors have included representatives of a broad spectrum of Department of Defense and



NASA organizations at the plant to review Denver Aerospace independent research and development (IR&D) programs; also, some 300 stockbrokers affiliated with Shearson Leman/American Express, Inc, who got a crash course in the Transfer Orbit Stage (TOS). Exhibits

include full-sized models of the Viking Mars Lander, the SCATHA (spacecraft charging at high altitude) satellite, the manned maneuvering unit (MMU), and the teleoperator retrieval system as well as scaled versions of space shuttle, Titan, the external fuel tank, and TOS.



AN/MSR-T4 van

AN/MSR-T4 vans fielded for operational testing

The first two Martin Marietta-produced vans for electronic warfare testing and training have been fielded at La Junta, CO, and Nevada's Nellis Air Force Base where they will undergo operational testing.

The vans house the AN/MSR-T4 electronic countermeasures signals training set designed, built, and tested at Denver Aerospace's ground electronics production systems facility on South Lincoln St.

The vans will be used by the Air Force to test equipment and evaluate pilot proficiency for modern electronic combat.

Henry Summers, AN/MSR-T4 program manager, said both vans have completed factory testing, and the first van has completed one of three months of formal field testing at a Strategic Air Command (SAC) radar bomb scoring range site at La Junta.

The second van, which includes a tracking subsystem, has completed an over-the-road transportability test and is nearing completion of a one-month installation

and checkout phase. Its three-month formal field test at Nellis will begin early this month.

"It's been a long, tough road to reach this point in the program, and these are significant milestones," Summers said. "The Martin Marietta people who have contributed to the AN/MSR-T4 program may be justifiably proud of their efforts."

The company is producing seven AN/MSR-T4 systems under a \$44.3 million contract with the Air Force Armament Division at Eglin Air Force Base, FL. Only the first two systems undergo field testing, with the remaining five accepted after factory testing.

The AN/MSR-T4 system monitors and records radio frequency emissions as aircraft fly over SAC and Tactical Air Command sites, supporting analysis of aircrew and equipment responses. The mobile system is carried in a specially constructed 30-foot semitrailer, with a smaller second trailer carrying tracking electronics for remote operations where onsite aircraft tracking is unavailable.

Employee purchase of personal computer made easier, more models

Employees with at least six months service can get assistance toward purchases of personal computers through a recently launched Denver Aerospace program.

The program includes discounted prices through group purchases, ranging from 18 to 40 percent, financing through Littleton's United Bank of Southpark, favorable loan rates, and repayment through payroll deductions. Among the computer makes that are discounted are Altos, Digital, Eagle, Hewlett-Packard, NEC, Northstar, Radio Shack, Zenith, IBM, as

well as the Macintosh, Lisa, Apple IIE and IIC printers.

The program was initiated to encourage greater employee use of and familiarity with computer's in view of rapidly expanding applications of computer technology in both the work and home environments.

Detailed information on ordering procedures, discounts, supplies and peripherals is available from John Ulrich of the Waterton Computer Club, ext 4138; Recreation, ext 6750; and the computer library, ext 6716.

Employee survey make-up sessions scheduled

next week

Employees who have not completed the employee climate surveys are urged to attend one of the additional makeup sessions scheduled next week. Bring a pencil to the session and know your home department and project department numbers.

The schedule:

For employees on the west side of the Waterton plant (ENG, RDL, GPL, etc), second floor cafeteria, Engineering Bldg at 9:15 a.m., Monday and Tuesday, July 9 and 10;

For employees on the east side of the Waterton plant (SSB, EMF, etc), SSB cafeteria at 9:15 a.m., Monday, July 9;

For LSC employees, the cafeteria at 9:15 a.m., Monday July 9.

College reps visit July 17

Representatives from 11 Front Range colleges and universities will be at the Waterton plant Tuesday, July 17 from 2 to 4 p.m. in the second floor cafeteria in the Engineering Bldg.

The representatives will counsel prospective employee-students and those already enrolled on admissions requirements, eligibility, curricula and policies for undergraduate and graduate study.

Schools represented will be the University of Colorado at Denver, the University of Denver, Red Rocks Community College, Metropolitan State College, Arapahoe Community College, Regis College, Colorado State University, Loretto Heights College, Columbia College, the University of Northern Colorado, and Webster University. The State of Colorado Professional Engineers Board also will be represented.

In other academic developments:

- Metro is offering a new computer major at its science and mathematics school which emphasizes theory and probability applications. Metro South also will continue classes at West Middle School, at East Bellevue Ave and South Holly St, to accommodate south Denver residents. August 15 is the deadline for all Metro fall semester courses.

- The Linkage Program, a cooperative effort between Loretto Heights and Arapahoe, is an adult program to assist those with associate degrees in the progression to a bachelor's degree in business administration.

- Colorado State announced a course addition to its industrial science program that integrates the scientific and managerial phases of the construction and manufacturing industries.

Company participates first time in INROADS program for minorities

Among Denver Aerospace's annual summer crop of student employees are four 18-year-old graduates from metro area high schools. They are participating in a special program designed to prepare talented minority youth for positions of leadership in corporate America and the community.

Bernadette Maldonado, Ranum High School, Westminster; Ellis Gayles, Manual High School, Denver; and Juan Vazquez and Joseph Montoya, both of Denver's West High School, are part of the national INROADS program. Maldonado will be working in accounting; Gayles, Vasquez, and Montoya will be assigned to quality, mechanics, and electronics, respectively.

In consecutive summers, sponsoring corporations employ the INROADS students in work related to their individual interests. This is the first time the company has participated in the program.



Maldonado



Gayles

Headquartered in Chicago, the nonprofit organization was started during 1970 by Frank C. Carr, then regional manager of Holt, Rinehart, & Winston, Inc, the book publisher. He perceived minority youngsters "already knew how to survive, but they needed to learn how to play 'the success game' in the corporate environment".

In 1970, INROADS involved only one city, 25 students, and 17 companies. Today, some 500 companies in 18 cities are sponsoring about 1,800 young people through the four-year program.



Vazques



Montoya

About 1,110 of those outstanding students are pursuing university degrees in business or engineering during the academic year and interning at one of the companies—mainly Fortune 1,000 firms—in career-related training programs during

successive summers as they matriculate through undergraduate work. Another 700 students in ninth through 12th grades are participating in precollege programs at universities in their areas.

A program spokesman stressed, "INROADS is not a 'do-gooder' organization. Students must meet standards of performance at college and on the job (they are monitored throughout the four years in both situations). Otherwise, they are dropped from the program and replaced by students who do meet and maintain the standards."

The summer experiences are designed to introduce the student to many dimensions of corporate life. The corporate objective is to "home-grow" minority talent in business and technological fields, with the intent to hire that talent full time upon graduation. At the same time, salaries help the students to defray upcoming college and personal expenses.

The spokesman added already more than 150 companies are now receiving a return on their investments. They employ some 470 INROADS graduates as accountants, bankers, computer programmers, engineers, marketing analysts, sales representatives, scientific researchers, customer service, personnel, operations, data processing, and systems development. Many graduates are continuing their education in MBA programs, often in night school.



Denver Aerospace's second "hands-on-learning" class on the new computer programming language, Ada, took time out recently to pose for this group photo. In addition to Martin Marietta software engineering personnel, members also have included persons from quality, systems, test, the Air Force Plant Representative's Office (AFPRO), and Data Systems. The new computer language, destined to replace the hundreds currently used in defense work, was chosen by the Department of Defense (DOD) for all mission-critical applications and embedded computer systems. An embedded computer system is one in which the computer provides exclusive support for the overall system in which it operates. Ada is also the DOD registered trademark for the new computer language. Each 13-week Ada class involves a five-day-a-week, eight-hour-a-day program. The company expects to have about 50 Ada-trained individuals by the end of the year. Concurrent with that training, several Martin Marietta representatives recently made a presentation on Ada education at Denver Aerospace to the Front Range Ada Working Group, meeting at Hewlett-Packard Logic Systems Division in Colorado Springs. That group, which includes representatives from the aerospace, academic, military, and industrial communities, was formed late last year under the initiative of Martin Marietta to share Ada information.

1984 NESRA photo contest winners

Some 250 photographers, representing 45 organizations, submitted 541 entries in the National Employee Service Recreation Association (NESRA) photo contest this year. Winning photos were exhibited at the annual NESRA conference, this year at Breckenridge, CO.

Martin Marietta placers in the various categories were:

Janis Stephenson, first place with "Interlude" in the color prints open category, as well as a second place with that picture in the color prints division; Fred Luhman, first place in the open slides class and a second place for "A Time For Play" in the slides division; Louis Poulter, first place in the human interest slides category and fourth place for "Quit Shoving in the slides division; Leonard Sobas, first place in the scenic color prints category and third place with "Hawaiian Sunset" in the color prints division; Michele Elm, third place in the human interest black and white print category with "Longevity."



You can't breathe smoke. In a smokey room or building, crawl under smoke to escape.

\$1.9 billion gross income

Peacekeeper economic benefit to Colorado

Colorado currently receives 8.2 percent of the research, development, test, and evaluation (RDT&E) and procurement jobs created by the Peacekeeper program across the nation.

Figures from the Defense Economic Impact Modeling System (DEIMS) and the Bureau of Labor Statistics economic growth input-output model, show that translates to 2600 jobs directly each year; 1000 jobs each year, indirectly, that is such support activities as warehousing and others not actually involved with building the hardware; and 5700 indirect jobs each year, such as real estate, travel, food and other general services.

Other figures show:

- An annual average of 9300 jobs each year (direct, indirect, induced) for the five year 1984-88 period;
- 46,500 man-years of jobs for that five-year period;
- For every job created by Peacekeeper RDT&E and procurement in Colorado, 2.5 additional jobs will be created;
- Colorado receives 9.7 percent of Peacekeeper outlays for the five-year period, or \$230 million a year direct and \$1.15 billion for fiscal year 1984-88;
- Peacekeeper expenditures will generate sales of \$320 million per year, direct and indirect, \$1.6 billion for the five-year period, \$824 million a year, direct, indirect and induced, \$4.12 billion for 1984-88;
- For every dollar spent on Peacekeeper in Colorado 83% remain in the state and another 83% are generated. Thus, for every dollar spent on Peacekeeper in the state, Colorado sees \$1.66;
- Peacekeeper will generate \$1.9 billion gross state income for the fiscal year 1984-88 five-year period.

Murphy: the constant challenge of Peacekeeper

"Making each flight as successful as the previous one is a constant challenge. Every decision and all of the 'ingredients' involved in launching a vehicle must be absolutely right," said John P. Murphy during a recent interview.

As director of Martin Marietta's Peacekeeper flight and test program at Vandenberg Air Force Base, CA, Murphy uses his 24 years of management expertise to oversee the contractual activities associated with assembling, testing, providing support for and launching Peacekeepers as part of the Air Force's flight test development program.

"Our outstanding teams makes a difference. It's hard to find such an eager group like this, with the perpetual 'can do' outlook. They have the ability to sift out and overcome problems. The best example of this is the fact that under an intense schedule, our team was able to successfully complete the first five Peacekeeper test launches within one year's time."

(Editor's note—The Air Force launched its fifth Peacekeeper June 15 in a series of 20 flight tests from Vandenberg Air Force Base. Martin Marietta is responsible for Peacekeeper assembly, test and system support under a current contract funded at \$680 million for the period June 1984-July 1987.)

Murphy focused on his team's abilities, but he, personally, also has been recognized repeatedly for outstanding performance. A five-time recipient of the Martin Marietta Gold Medallion, he also has

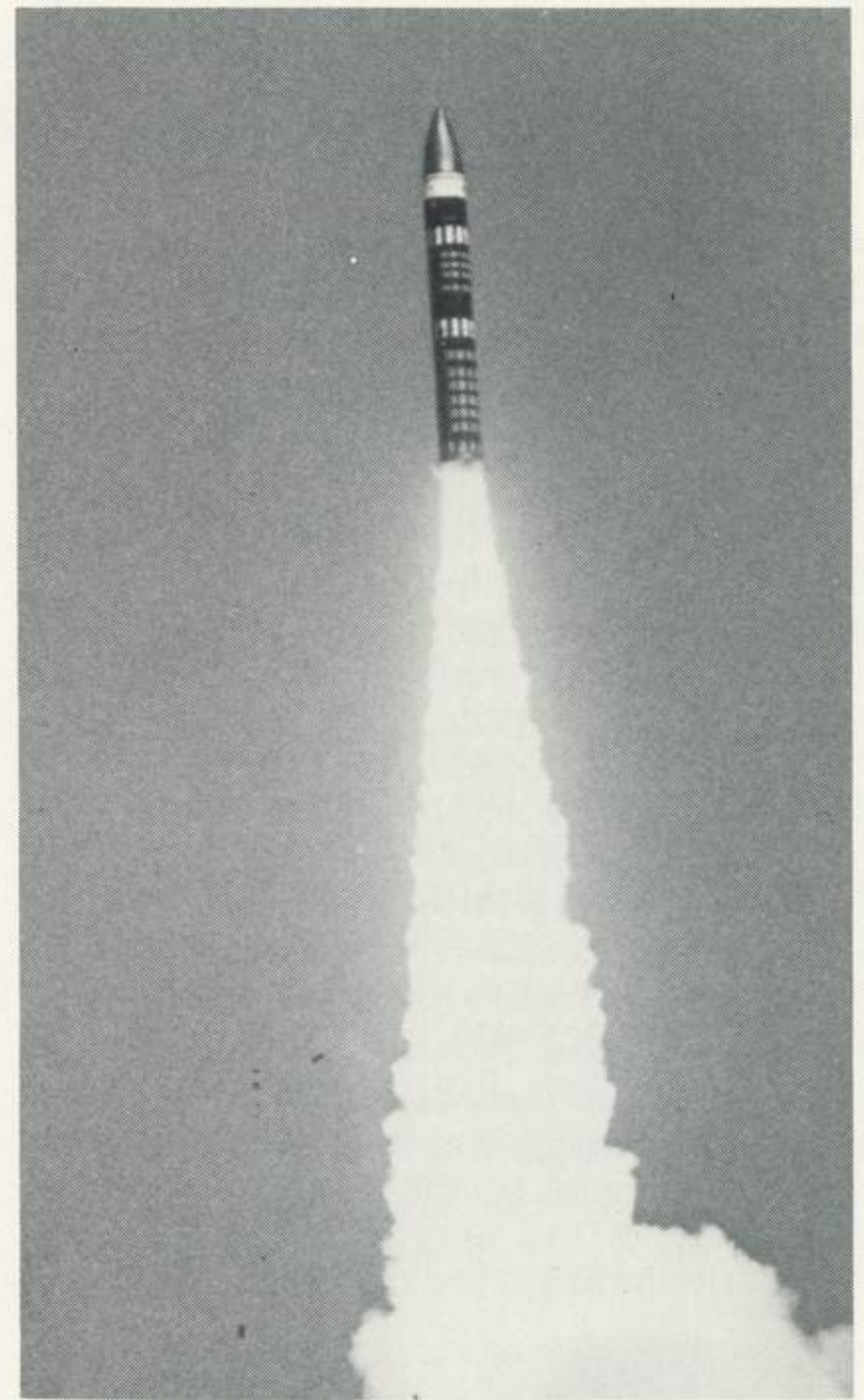


Murphy

received the Denver Operational Performance Award three times and the United Way Gold Award for Community Service.

Murphy joined Martin Marietta in 1960 after earning a 1954 B.S. degree in electrical engineering from the University of Tennessee. He has been involved in both the engineering and management areas of various Martin Marietta programs and has held several supervisory posts, including that of director of Vandenberg operations.

His wife of 25 years, Tricia, is an educator for the Guadalupe School District at Santa Maria, CA. Their three children—Clare, Kathy, and Jon—are all in college.



Peacekeeper No. 5

23 honored for outstanding Peacekeeper performance

Twenty-three employees received plaques at the third Peacekeeper Award of Excellence banquet recently in California for their outstanding performances during the past year.

John Murphy, director of Peacekeeper flight test program, and John R. Adamoli, former director of that organization and now director of Peacekeeper deployment at Denver, made the presentations to the honorees employed at Vandenberg Air Force Base.

Peter B. Teets, vice president and general manager of Denver Aerospace's strategic and launch systems division, was presented a special recognition plaque for his "encouragement and support of the Peacekeeper program. Adamoli also was recognized for his "outstanding leadership and sustained efforts leading to the successful performance of the missile program at Vandenberg.

Winners of those Award of Excellence plaques were:

Bernard Camba, engineering; Dick Crofut, quality; Bill Davis, program management; Mark Edson, operations; "Bert" Garcia, operations; Robert Gilbertson, engineering; Ray Gonzales, support; Doug Grames, quality; Ferm Graves, integration; Sheldon Irish, operations; J.P. Jones, engineering; Darryl Kranich, support; Dale Laing, operations; Marshall Lynch, operations; Bob Pattalochi, support; Glenn Powers, liaison; Bill Prewitt, management; Teri Riley, quality; Ben Rizzuto, integration; Bob Serbian, operations; John Stahlhut, engineering; Noal Walker, engineering; and Doug Young, safety.

Recreation

(Editor's note—Martin Marietta Denver Aerospace's Recreation Department is located in Engineering Bldg, module 124, and can be reached by telephone at ext 6750 and 6605. Flyers on sports and other extracurricular activities, discounted tickets, special sales, and trips are available from that office and from the department's information racks throughout the company.)

Alpine—The Rocky Mountain Alpine Club (RMAC) has announced the following schedule for July activities: July 11 after work hike up the newly opened Waterton Canyon (Gordon Voss, ext 8109); July 13-15 weekend backpack into Medicine Bow National Forest, north of Rocky Mountain National Park (Dave Crosswell ext 3543 or 5153); July 20-22 backpack into the Crestone Range (Larry Espelage, ext 5376); July 27-29 backpack west of Collegiate Pass in the Taylor River Basin (Dan Hawkins, ext 3518 or 973-5533, and Gordon Voss, ext 8109 or 973-6512).

Chess—The Martin Marietta Chess Club will be meeting at 6:30 p.m., July 11 and 19 and at 8:30 p.m. July 28 in the Denver Systems Center (DSC) snack-ateria. Each meeting includes a qualifying tournament for the overall summer championships which this year will be conducted in three divisions.

Hunting/Fishing—Skyline Hunting and Fishing Club's next general membership meeting will be at 5 p.m., July 9 at the clubhouse behind the softball diamonds in the company's recreation area (Fred Sunderland, ext 8129).

Photography—The Platte Canyon Photo Club has scheduled a field trip at 6:30 p.m. July 19 to Capitol Engraving Company, 1463 West Alameda Ave. Highlight of the tour includes demonstration of preparing photo reproductions of slides and prints for the lithographic process, using the electronic laser scanning system, and ultimate use in publications (Bill Privatsky, ext 5920, 5421).

Riding—The Ridge Riders Saddle Club has scheduled an O-Mok-See for July 21, beginning at 5:30 p.m., in the company's recreation area. O-Mok-See is an Indian word for a variety of five horse racing competitions that include barrel and flag-pole events. (Frank Roe, ext 9592)

Quit smoking sessions still open

Times are still available for the July sessions at Denver Systems Center (DSC), Greenwood Commons, and Space Support Bldg to help Denver Aerospace employees break the smoking habit. Contact medical services, ext 5801 to reserve a time.



Pictured with Robert J. Polutchko, space and electronics division vice president, are 40- and 45-year honorees and their wives after a recent service recognition dinner at Denver Aerospace. Pictured left to right with their wives seated in front, are Leon Dabkowski (45 years) and his wife, Dorothy; Quentin Parks (40 years) and his wife, Corrine; Polutchko; William Croucher (45 years) and his wife, Norma; Beverly Jones (40 years) and his wife, Mary; Anthony Fria (45 years) and his wife, Audrey.

July 25 deadline to register for company links tourney

July 25 is the deadline to register with Recreation for the Martin Marietta Open Golf Tourney to be held August 11 at the Riverdale Golf Club, 124th Ave and Henderson St, south of Brighton.

Entry fee is \$22 for men and women golfers. Each will receive a coupon for the luncheon, a half shared cart, and a "golfer's surprise" with the 18 holes of

play. Awards will be given for low net score, longest drive, and closest-to-the-pin competition.

Maximum number of duffers for the two shotgun flights—at 7 a.m. and 12:30 p.m.—is 280, and Recreation reports the morning flight is almost filled.

The Peoria handicap system will be used for golfers with nonverifiable handicaps.



The Denver Aerospace-sponsored Junior Achievement (JA) company, Musical Minutes, was among the metro area's five finalists vying for honors as top production and best marketing company for the last school semester. One of the high school company's junior achievers, Kim Pepper, also was a finalist for production executive of the summer. Individuals interested in being JA volunteers for the next semester should contact Lori Sharp, ext 6605, by August 1. JA advisors from Denver Aerospace and Data Systems recently were honored at a Martin Marietta breakfast. Pictured, left to right, are Bruce Pherson, employee relations and services manager; Marge Brooks, Mike Hockman, Robert Johnson, and Tom Elbring; Paula Johnson, JA operations manager; Dennis Cook, director of personnel; Lori Sharp, JA coordinator; Terri Luggar, and Julie Justin.