

March 13, 1987 Number 5

Project Challenge to enhance productivity

"We are going to improve the way Denver Aerospace conducts its business, and the changes are going to be dramatic and across the board," said Peter B. Teets, president of Denver Aerospace, in announcing a new productivity initiative this week called "Project Challenge."

"It is imperative that significant productivity improvements be achieved in all our operations promptly," Teets said. "This major effort will involve all Denver Aerospace operations and have a marked effect on the way we conduct our business. It is essential that we improve our operations on existing programs to provide more cost-efficient and higher-quality products to our customers, and to make Denver Aerospace more cost competitive in the marketplace for future opportunities."

In giving "Project Challenge" his highest priority and endorsement, Teets appointed Stanley F. Albrecht, vice president of Production Operations, to direct the initiative.

"It has become increasingly obvious that while we have a fine reputation for producing quality products and services, we are not as cost efficient as we can be," Teets said. "We must be even better in that area than our competitors if we are going to be able to take advantage of future opportunities."

Teets noted that past performance in the area of cost efficiency, as well as high quality, has become an increasingly more important factor in award of new contracts.

"That means," Teets said, "we have to find ways to produce even higher quality products and services at lower costs than our competitors if we are to continue to grow. To do this, we must modernize and streamline all our operations. We must conduct our business with

the same advanced technologies that we incorporate in our end products."

Albrecht noted that Project Challenge would be an all-encompassing program.

"In essence, we'll have to change the way we think as well as the way we work," Albrecht said. "This is obviously an ambitious undertaking and it will require the cooperation of every employee. Our work organization will be redesigned and re-evaluated from top to bottom. There will be no 'sacred cows.' Every non-productive operation will be studied for improvement or elimination. Our goal is to achieve an overall productivity improvement of at least 40 percent."

A number of immediate, but not all-inclusive goals, were outlined for this year by Albrecht. They focus on:

- 1. Integrating computer-aided design, computer-aided engineering and computer-aided manufacturing (CAD/CAE/CAM) into Denver engineering and production operations.
- 2. Integrating manufacturing resource planning (MRP-II) into Denver manufacturing operations.
- 3. Putting pilot programs using these systems in place in 1987 that validate the systems, anticipate future requirements, and that will permit full incorporation in 1988. The pilot programs will be incorporated on the Small ICBM program, at the Design to Produce Facility and the Electronic Manufacturing Facility.
- 4. Implementing other improvements, such as a computerized and integrated cost and performance measurement system contractual requirement from the government (C/

SCSC) system, revised and simplified Command media system, and a more efficient operating structure with Data Systems.

—5. Implementing other productivity improvements in all Denver operations.

Albrecht urged *all* employees to become involved in Project Challenge by suggesting productivity improvements in their areas.

"The current suggestion program itself will be strengthened to give higher priority to suggestions that might improve our productivity," Albrecht said. "Every employee should become involved, if not in actual change itself, then certainly in the spirit of what we hope to accomplish." Employee suggestions should go to the Success Through Suggestions program, mail stop 0092, Ext. 7-4332.

"The overall objectives of the program are large and aggressive," he said, "hence, everyone's suggestions and participation are important."

To help direct Project Challenge, Albrecht appointed Santo Bertuzzi as program director, Ronald Drobnik as director for the CAD/CAE/CAM program, John Pauly as manager of the MRP-II program, and William Donnan as manager for the Summary Level Planning System. Project Challenge operations will be headquartered at the Waterton facility and will actively involve more than 100 people during 1987.

"The end result of Project Challenge will be an improved way of doing business. We will be more efficient while producing even higher quality products and services," Albrecht said. "Some changes will be dramatic, while others will seem small in comparison, but they all will be changes for the better." ■

Mission success campaign set to start at EMF

One aspect of Project Challenge gets underway the week of March 16, when certification briefings begin for all employees responsible for flight hardware.

Led by Stanley F. Albrecht, vice president of Production Operations, the briefings will start with employees at the Electronic Manufacturing Facility (EMF)—engineers, support people, technicians and inspectors. The briefings will stress the company's commitment to quality and mission success and

its critical importance to employees responsible for flight hardware.

"Mission success and Project Challenge are complementary," said Albrecht. "We want high-quality products—produced in an increasingly competitive business environment."

After attending each hourly briefing on the mission success creed, employees will receive a badge attachment signifying their certification to handle flight hardware. The one-hour briefings

will continue until all employees involved in production have been certified, as a part of the certification requirements summary chart (CRSC).

"We intend to improve the overall excellence of our operations, and this will help us reach the goals of Project Challenge," Albrecht said. "We want the mission success training to reach all people who handle hardware, whether they design it, build it, move it, inspect it or test it."

Company signs ten Titan pacts

Denver Aerospace has signed ten memorandums of understanding to launch commercial satellites on Titan III.

The ten signed memorandums of understanding for launch reservation priorities on Titan III flights are with Federal Express, as previously announced; three with Hughes Communications, Inc.; INTELSAT; Telesat Canada; EUTELSAT; Ford Aerospace; and two firms that prefer not to be identified at this time.

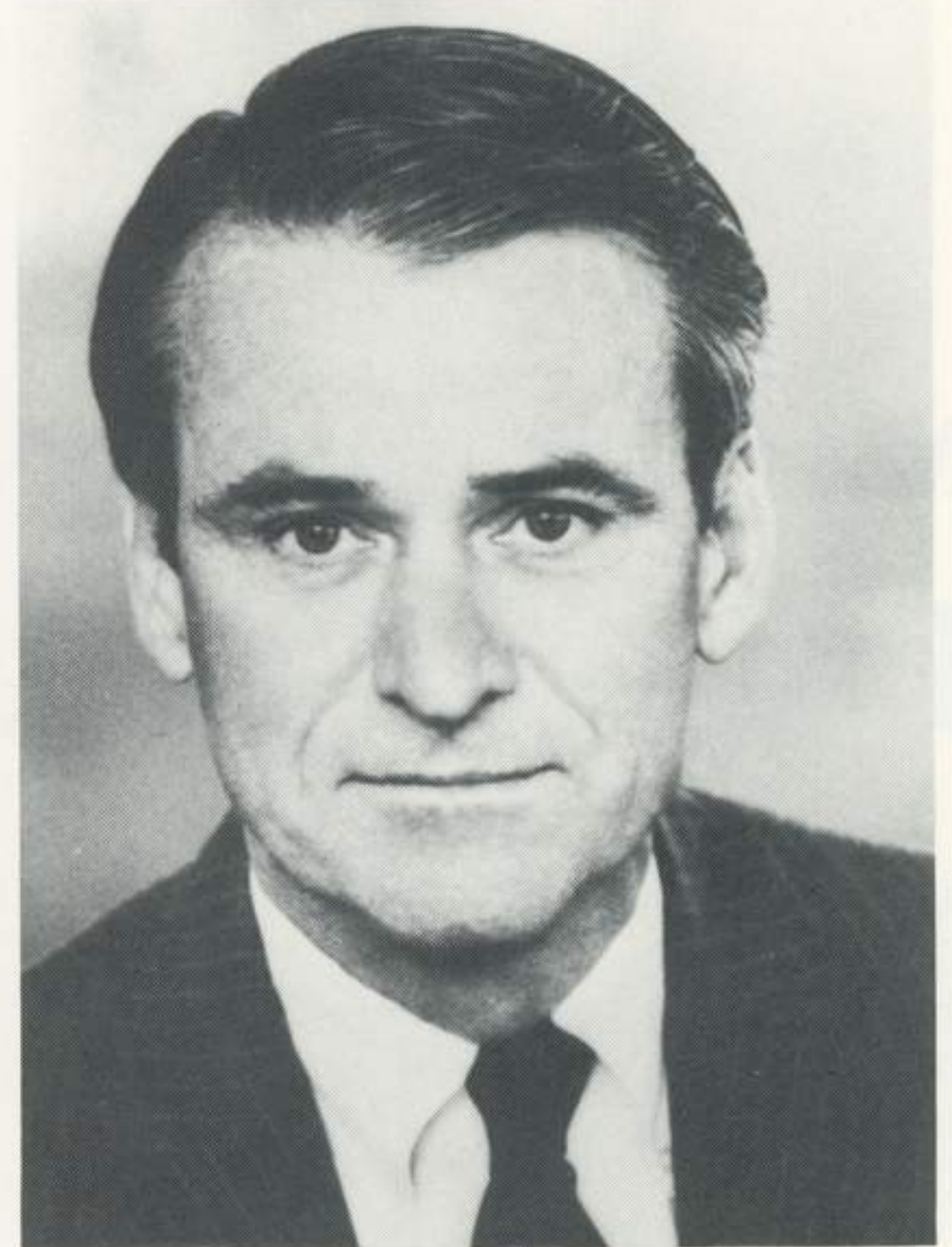
"These agreements and customer requests for proposals confirm our analysis of the commercial market, and the Titan's competitiveness internationally," Richard E. Brackeen, vice president, Space Launch Systems, said. "Titan gives the commercial satellite industry a more attractive set of options, including

launchsites, dual payloads, reliability and schedule flexibility."

The commercial Titan III, with a 13-foot (4-meter) diameter payload fairing, can deliver 31,000 pounds of payload into space shuttle-type low-Earth orbits. Martin Marietta is offering complete launch services to satellite owners and operators, with initial launches available in 1989 from Cape Canaveral, Fla.

The company has been producing the Titan family of launch vehicles for Air Force and NASA planetary missions since the 1960s. The Titan III launch vehicle has scored 130 successful flights in 135 operational launches.

Presently, the company has three Titan space launch systems in various stages of production or development. They include the Titan IV, the Titan III and the Titan II space launch vehicle.



Hurtt

Hurtt named new executive VP

Caleb B. Hurtt has been elected executive vice president of the Martin Marietta Corporation. Hurtt, 55, will continue to serve as the principal executive for the Corporation's aerospace operations while assuming larger responsibilities in corporate-wide management.

In announcing Hurtt's promotion from senior vice president to executive vice president, Thomas G. Pownall, chairman and chief executive, said: "The directors' action in promoting Caleb Hurtt is recognition for his outstanding leadership of Martin Marietta's aerospace activities, by far the largest segment of our business."

Hurtt has been a vice president of the corporation since 1980, and senior vice president in charge of aerospace for the past three years. As such, he has had overall responsibility for aerospace activities, including major operations at Baltimore, Denver, New Orleans and Orlando.

Hurtt joined the corporation 30 years ago at Denver, rising through a succession of progressively more responsible technical and managerial assignments, including vice president for program development and vice president for manned systems, a position in which he was the project executive for Martin Marietta's participation with NASA in the nation's first space station, the Skylab program.

First as vice president and general manager, then as president of Denver Aerospace from 1976 until 1982, and later as head of all aerospace activities, Hurtt has been involved directly in the engineering or management of some of the country's major space and strategic systems, including the Titan family of Air Force and NASA launch vehicles, the Viking landers on Mars, the Pershing and Peacekeeper missiles, and the Manned Maneuvering Unit, which allowed astronauts to fly untethered for the first time. ■

Employees help Colorado seek superconducting super collider

On Jan. 30, Energy Secretary James Harington announced that the Reagan Administration supports construction of the superconducting super collider, often called the SSC for short.

But the SSC is no small fry. The SSC would be a high-energy particle accelerator, costing \$4.4 billion and employing 3,000 scientists, mostly high-energy physicists. It would consist of an oval-shaped, 52-mile-long underground tunnel (like a 52-mile-long race track) plus laboratories. Several Denver Aerospace employees have been helping to have the SSC located in Colorado.

The super collider is a basic research tool, like a very powerful telescope or microscope. Other particle accelerators exist, but the SSC would be many times more powerful. It would help scientists solve many of the mysteries of the universe. Some believe this research could lead to nearly inconceivable advances, such as learning to control all the forces in nature, including the force of gravity; how these forces relate to one another, and how to control them.

In the SSC tunnel, scientists envision two beams of protons, each about the size of a soda straw, accelerated in opposite directions nearly as fast as the speed of light. The proton beams are accelerated by 10,000 superconducting magnets in the tunnel. When the proton beams collide, an intense but very brief interaction occurs in which hundreds of new particles are produced in a trillionth of a trillionth of a second.

In that short time, 40 trillion electron volts of energy are briefly created—as much energy as could be produced by 33 trillion flashlight batteries.

Using the SSC, scientists would use computers to study the tracks made by hundreds of these basic particles produced by the collision. In doing this, the scientists will try to recreate,

and see for the first time, the interactions or forces between these basic particles. Research done with the SSC would be applied to industry and medicine. For example, particle beams, similar to those created in accelerators, are now being used to treat cancer.

An executive committee has been working behind the scenes for 4 years to get the SSC for Colorado. Harrison (Hatch) Wroton, director of engineering operations at Denver Aerospace, has been a member of the committee since its beginning. Initially, his primary responsibility was to find a suitable site for the giant project in the state, somewhere on the eastern plains.

Wroton is assigned to develop and write a proposal that Colorado can present to the Department of Energy in its bid to be the site for the SSC. The SSC executive committee presented a plan recently to Gov. Roy Romer establishing an organizational structure to manage Colorado's attempt to get the SSC.

Wroton has been aided over the years by Richard L. Parker, manager, Business Development, Space Launch Systems; Dan J. Lantz, manager of facilities systems requirements for Small ICBM systems support; Michael J. Davis, account executive; Richard Sides, editorial; and John Tieleman, graphics. Martin Marietta also donated funds for the publication of a brochure about the SSC. Currently, public relations is developing a film to explain the SSC and its potential benefits for Colorado. The company has also provided funding to produce that film.

If Congress approves the SSC, final site selection will be announced in January 1989. Constructing the SSC could be completed by 1996.

In addition to the economic development benefits for Colorado, the state and its universities would gain worldwide prestige.

—Bob Wurmstedt



Principal investigators are congratulated by Peter B. Teets, president, standing, far left, and Warren G. Beery, vice president, Technical Operations, standing next to Teets. Those who received awards are, seated, left to right, Dale Fester, Tom Richardson, Damon Ostrander, Jim Walker and Carl Kaminiski. Standing, left to right, are, Teets, Beery, Kate Blacklock, Bob Rantschler, Jim Oliver, Dave Nichols, Mike Shoultz, Jim Tegart, Lyle Bareiss and Mohan Misra.

1986 IR&D awards cite PIs

An informal awards ceremony cited 12 principal investigators (PI) and the panel chairman for outstanding contributions to the Denver Aerospace independent research and development (IR&D) program recently.

Awards were made for the 1986 IR&D brochure, which included 129 projects and represented an investment in technology of more than \$85 million—the largest dollar value for the IR&D brochure in Denver's 30-year history.

A record 550 government evaluations were received from 61 government organizations, and the resulting Denver score was 8.10, which puts the company in the top 10 percent of all companies in the country that participate in the IR&D program.

"We can take exceptional pride in our performance," said Ronald A. Bena, manager, IR&D program manager. "The credit, of course, goes to all our principal investigators, but especially these 12, for their technical performance and dedication."

Bena was chairman of the review group that selected the top PIs. Investigators were selected on the basis of overall government scores, trimestral scores, dollar size of IR&D,

potential for new business, technology importance and overall performance. Each PI received a \$200 check.

Panel Chairman Dale Fester's IR&D, "Propulsion Aerothermal Panel," had the highest score of all the panels. The 12 PIs who received awards were Lyle Bareiss, "Space Environment Materials Effects"; Kate Blacklock, "HML Concept Study"; Carl Kaminski, a classified study project; Mohan Misra, "Materials Technology"; Dave Nichols, "Surveillance, Tracking and Pointing Systems Study"; Jim Oliver, "Optimization of Hard Mobile Basing (HMB) Weapon System, Support and Readiness (WSSR)"; Damon Ostrander, a classified development project; Rob Rantschler, "Space Weapon Model Development"; Tom Richardson, "Advanced Control System Architecture"; Mike Shoultz, a classified study project; Jim Tegart, "Low-g Fluid Behavior and Control"; and Jim Walker, a classified study project.

These 12 PIs competed with other technical nominees in the technical achievement category. They will receive an invitation to the Denver Awards Night. One of the them will be named PI of the year. ■

Training still available on new purchase requisition system

If you write purchase requisitions (PR), need to check the status of a purchase requisition, or if you're at the management level and just need basic knowledge of the new PR system, you can still receive training, reports a spokesperson for the Production Operations automated systems department.

The new (PR) system was implemented on Dec. 15, 1986, and the department attempted to reach all employees with a training program. If you missed the class and videotape

for the new system, dubbed SUPPORT, for system use for procurement planning, ordering and requirement tracking, call the automated systems training and education department, Ext. 7-9723, for more information.

The department also emphasizes that blanket purchase agreements, (BPA), are on a different system than SUPPORT. BPAs go on System 34, and you may check the status of a BPA by calling Ext. 1-5476. ■

Project referral winner named

Dana M. Smerchek is the project referral winner for February.

Smerchek, an employee of Denver Aerospace since 1980, is senior Business Development representative.

Smerchek referred Edward Aldridge, an engineer now working for Technical Operations. For his referral, Smerchek received \$2,000. By having his name selected in the monthly drawing, he wins a three-day trip for two to a city of his choice. Smerchek also received \$2,000 for referring Rick Riecks, who is now working for Military Space Systems. ■



Smerchek

Sharp named president, recreation association

Lori Sharp has been elected president of the Denver Area Employee Services Recreation Association (DESRA). Sharp is coordinator for employee services and recreation at Denver Aerospace.

DESRA is a non-profit organization devoted to developing recreation and services for employees of business, education and government agencies in the Denver area. The organization is affiliated with the National Employee Services and Recreation Association, and strives to provide an exchange of ideas between large companies. ■

Annual report features Denver Aerospace

Denver Aerospace projects and employees are featured on the cover and in a number of other photographs in Martin Marietta Corporation's 1986 Annual Report. More than 110,000 shareowners and employees will receive the report this month.

The cover of the report shows a photo of senior engineer Scott Dahl conducting a laser-pointing test in the Rapid Retargeting Laboratory. Other Denver-related photos in the report include a Peacekeeper emplacer inserting a missile into its silo at F.E. Warren Air Force Base in Wyoming, the Titan production line and the Transfer Orbit Stage.

The 36-page report is mailed to each of the corporation's more than 40,000 shareowners and nearly 70,000 employees, as well as financial analysts, stockbrokers, banks and other financial institutions; prospective investors; customers; community leaders; the media; and the public as requested—some 335,000 copies in all. It is the corporation's public record for the year's accomplishments. ■



From the encouragement she gave her kite-flying son, to her first trip aloft, Martin's mother Minta was his biggest fan and supporter. Minta helped her son build his first plane in 1909 and, 24 years later, joined him in Washington, D.C., when he received the highest honor for aviation achievement, the Collier Trophy.

History...

On a wing and a prayer

Editor's note: This is the fourth in a series of articles about Glenn L. Martin, and the dream on which he built an aircraft empire and the company that became Martin Marietta. The series is courtesy of Orlando Aerospace.)

GRIFFITH PARK, Calif., June 21, 1913—World-famous aeronaut "Tiny" Boardwick made history today as the first woman in the world to parachute from an aeroplane. Teamed with pilot Glenn L. Martin, Tiny rode aloft in a sling mounted outside the plane's body.

At Martin's signal, she leaped into the air and plunged toward the Earth.

When the silk cord and parachute finally opened, Tiny floated gracefully to the ground in what was to be the first of many such exhibitions with "the Flying Dude." Martin was still supporting his Los Angeles aeroplane factory with prize money earned at air shows and flying exhibits. With the addition of the parachutist, the act was in constant demand.

A passenger meant Martin's plane needed another seat, and with the development of the two-seater came the interest of the military. In 1913, the Army accepted the first delivery of Model TT trainers. A year earlier, Martin had demonstrated bombing capabilities with an attack on a mock fort near Los Angeles. Missiles were made of loosely sewn sacks of flour. Explosions were set off from inside the fort with electricity, black powder and flares. Warships in the harbor trained search lights and blank-loaded rifles on the attacking planes, but the fort was soon in flames. Martin had made his point for aerial bombardment.

Whether Martin's point was well taken or not, rumors of a distant war had little impact on America in 1913, and the U.S. government remained skeptical of Martin's antics. The Aeronautic Division of the Signal Corps had been in operation for six years using Wright, Curtiss and Burgess biplanes. Crash after crash resulted in lives lost and planes destroyed. An Army investigating team finally recommended the condemnation of the entire fleet.

The aeroplane will practically decide the war in Europe. Veritable flying death will smash armies, wreck mammoth battleships, and bring the world to a vivid realization of the awful possibilities of a few men and a few swift aerial demons. For the old-time war tactics are no more. The generals who realize this quickest and fight first with the flying death will win.

Glenn L. Martin
Los Angeles Herald
August 7, 1914

New rule set for health benefits

A new benefits rule has been implemented at Denver Aerospace that will affect two parents who are covered by separate health plans. The rule calls for the health plan of the parent whose birthday falls earlier in the calendar year to pay the claim of a dependent child first.

In the past, the claim of a child covered under benefit plans that protected two working parents had been paid by the father's plan first and the mother's plan second.

The new rule, which went into effect Jan. 1, 1987, applies to all health plans covering Martin Marietta employees.

Coordination of benefits (COB) is a provision that was established by the National Association of Insurance Commissioners and adopted by the Colorado state legislature. It is necessary to designate which benefit plan pays first, to prevent duplication of benefits payments. "This should not affect the amount that an employee receives in coverage," said Carolyn Aldorfer, chief of the benefits office.

The benefits office suggests that parents of children affected by this COB rule verify that both spouses' dates of birth and information about the spouse's plan are on the claim form or given to the provider of care to avoid delay in payment.

Liability for claim payment involving dependent children of divorced spouses will remain the same. The plan of an unmarried parent (with custody) is primary, the plan of a married parent (with custody) is primary, and the plan of a step parent (with custody) is secondary, unless otherwise dictated by a court decree.

Should an individual have retired from one company with retired health benefits and also work at Martin Marietta with health benefits, Martin Marietta's plan would be primary, or pay first.

For additional information, employees may contact their individual insurance carrier or the employee benefits office.



Credit Union Clips

Open house for members to celebrate recent move of employee Credit Union

The Red Rocks Federal Credit Union invites members to attend an open house on Friday, March 20, from 5 to 7 p.m. The open house marks the credit union's recent move to a new main office located east of the Littleton Systems Center complex on 7901 SouthPark Plaza, Suite 105.

Family members are welcome to attend. Employees who have not yet joined may contact the credit union at 797-2900 and also are invited to attend.

IRA loans are a new service offered by the credit union on a special unsecured loan program. If a member bor-

rows money for an IRA contribution for either 1986 or 1987 and deposits the IRA into the credit union, the special loan rate is 12 percent. The current dividend rate for an IRA is 6.25 percent.

To help employees plan for the future and understand the new tax laws, the credit union will have a representative from Waddell & Reed, Inc., at the Waterton branch office from 11 a.m. to 1 p.m. on March 19. Jim Collier will offer guidance on personal money management and tax law. Collier will be at the main office from 11 a.m. to 1 p.m. on March 26.

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

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Advanced videoconferencing system online

On March 19, the corporation officially opens the Martin Marietta videoconferencing system (MVS) at the Waterton facility. The system is a full-motion, full-color, face-to-face link between Orlando, Denver and Bethesda. Demonstrations will be conducted in Room 139 of the Engineering Building on March 19, 20, 23 and 24 from 2:30-4:30 p.m. Call Jim Kaygi, Ext. 7-8408, for an appointment.

Corporate news

Martin Marietta declares quarterly dividend

Martin Marietta Corporation's Board of Directors authorized a quarterly cash dividend of 25 cents per share on the company's common stock, payable March 31 to holders of record at the close of business on March 9. The action continues the rate on Martin Marietta common, effective in the second quarter of 1985, of \$1 on an annual basis.

Contract for night vision system awarded

Martin Marietta Corporation has received a \$365.2 million contract to produce 261 additional units of a targeting and night vision system that enables the U.S. Army's Apache helicopter to fly missions around the clock and in low visibility.

The system, called the Target Acquisition Designation Sight and Pilot Night Vision Sensor (TADS/PNVS), contains a heat-sensing device that turns darkness into a day-like picture in the cockpit. Orlando Aerospace has delivered 230 of 321 systems previously ordered by the Army.

Father and son win 8-k national finals

Dick Croteau, 44, and his son Jeff, 19, won the father and son division of the Footlocker National Finals 8-kilometer foot race recently.

Croteau, a procurement quality chief on special programs, and his son beat the second-place team from Hawaii by almost three minutes in the race in October. They also won the combined 56-69 year age group division over a team from Southern California. The partner team scoring is based on the combined time of

both runners.

Croteau completed the 5-mile course in Los Angeles, Calif., in 28 minutes, 13 seconds. His son ran the same distance in 26 minutes, 45 seconds. Jeff attends Idaho State University on an athletic scholarship, pursuing a degree in sports medicine. His father has run in several competitions for the Martin Marietta Shepherders Running Team. ■

Aerospace exhibit features Denver

Space station graphics, models and a video tour of a common module mockup were featured in the Martin Marietta exhibit at the recent Aerospace Engineering Conference and Show (AECS) in Los Angeles, Calif.

Sponsored by the American Institute of Aeronautics and Astronautics (AIAA), the show boasted more than 100 aerospace companies exhibiting products and services.

Prominent speakers covered such diverse subjects as U.S. and Soviet space programs, avionics, interactive computer graphics, the space station and the history of aerospace.

The 1988 AECS is scheduled for Feb. 9-11 at the Los Angeles Airport Hilton. The official call for papers will be published in an upcoming issue of the AIAA publication *Aerospace America*.

However, those interested in participating in next year's program may act now. Submit a short vita, proposed title of the paper, summary of the material to be presented, name, address and telephone number to AIAA, AECS 1988, 5001 Airport Plaza Drive, Long Beach, Calif. 90815. Follow clearance procedures outlined in the last issue of the *Martin Marietta News*. ■

Buraglio named top girls' soccer coach

The Cherry Creek "Lightning" Soccer Association honored Rock Buraglio recently for his work as coach of the 1974 Girls' "White Lightning" soccer team.

Buraglio, director of business management and program control, Small ICBM, coached his team in the 12-year-old division victory in the recent fall competition, winning the league championship for the third season in a row. Buraglio's team was the 1986 state champion and won the Colorado Cup in May 1986. As a result, the team represented Colorado in the Far West Regional Soccer Tournament in Seattle, Wash. in June 1986.

During the past three soccer seasons, Buraglio's "White Lightning" team won 63 out of 68 soccer games. ■

Supplier forum set for March 26

The second Minority Supplier High Technology Business Exposition sponsored by Denver Aerospace will be held from 9 a.m. to 3:30 p.m. on March 26 at the Holiday Inn at Academy Park, West Hampden Avenue and Wadsworth Boulevard.

Employee services/recreation

Commodore Users—The group will meet at 5 p.m., Tuesday, March 17, in the clubhouse at the recreation area. Contact Joe Presta, Ext. 7-4220, or Chuck Barton, Ext. 7-7433.

Corporate Games update—Swimming and track practices have started for employees vying for a place on the 1987 Martin Marietta corporate games team. More women are needed in both of these areas and are encouraged to call Terry Heggy, Ext. 1-5849, regarding swimming, and Marlene Gunther, Ext. 1-6202, or Todd Myers, Ext. 7-4101, regarding track. Time trials for the bicycle team and tournament dates to determine tennis and racquetball participants will be held in May. Corporate games interest forms are in the recreation racks and will be accepted after the original March 4 deadline. The Seventh Annual Denver Corporate Games will take place June 5-6. Martin Marietta will be defending its 1st Place title.

Smokers—Get a fresh start. Plan to attend the spring smoking cessation class. Fresh Start is a straightforward, no-nonsense, quit-smoking program led by trained ex-smokers, who report that they can help you understand smoking as a chemical addiction, as a habit and as a psychological dependency. The next class dates are March 30, April 2, 6, and 9 (students attend all four sessions) at Goddard Jr. High, Room 208, from 5-6:30 p.m. To register, call the employee services/recreation office, Ext. 7-6605, 7-6750.

Mile High L5 Space Society—(formerly Denver Aerospace L5) will meet at Arapahoe Community College at 7 p.m. on Friday, March 13. Martin Marietta employee John Barnes will discuss the telerobotic servicer for space station, and John Rossi will talk about the Young Astronauts program. A 50-cent donation is requested at the door to defray hall rental costs. Employees, families and guests are welcomed. Contact Jeff Zerr, 790-3857.

Rocky Mountain Alpine Club—A one-day cross-country ski trip for intermediate skiers is set for Sunday, March 15, at Mayflower Gulch. Contact Dan Hawkins, Ext. 7-0705.

Blood drive—The Belle Bonfils Blood Bank will be in the main conference room on the first floor at Terrace Towers from 9 a.m.-2:45 p.m. on Monday, March 30. Employees from Greenwood Commons and Terrace Towers are encouraged to schedule an appointment with one of the individuals listed below—after March 19. For employees at Terrace Towers: 2nd floor, Lori

Andrews, Ext. 1-2211; 3rd floor, Marta Olsen, 1-1780; 4th floor, Mary Lou Stowe, 1-2174; 5th floor, Dorothy Quinn, 1-1435; 6th floor, Joann Totman, 1-1416; 7th floor, Elaine Batts, 1-1244; 8th floor, Laurie Davis, 1-1833; 9th floor, Gerry Williams, 1-1604; 10th floor, Sandy Sutton, 1-2327; 11th floor, Sandy Kemp, 1-1010; 12th floor, Judy Foran, 7-7585. For Space Launch Systems employees at Greenwood: Karen Scott, Ext. 7-1139. For I&CS employees at Greenwood: Sue Lloyd or Chris Duncan, Ext. 7-0484 or 7-0294. The other blood bank dates this year are May 27-28, Waterton; July 8-9, DSC; August 27, LSC; November 3-4, Waterton.

Running—The Waterton Canyon Shepherd's Running Club began its 1987 spring race series on Thursday, March 12. The series consists of eight races. Employees can join the series at the next race on Thursday, March 26. The handicap series offers a form of competition and/or fitness program with the level of involvement depending on each individual's goals. Runners can compete with themselves, the clock or all the other runners. The series is free to Shepherd members and their families, and 50 cents for nonmembers. Those interested in joining may call Stan Barrett, Ext. 1-6422, for an application or further information. The schedule for the 1987 spring handicap series is as follows: 2.5 miles, March

26; 4 miles, April 9; 5 miles, April 23; 10 kilometers, May 7; 5 miles, May 21; 3 miles scratch start, June 11; 5 kilometers, June 25. All races begin at 5 p.m. at the Waterton Canyon parking lot.

Cubs versus Padres—Tickets for the 12:35 p.m. game on Sunday, April 5, at Mile High Stadium, are available for \$11 each from the recreation/employee services office, Engineering Bldg., Module 124G.

The tickets are for field-level seats between third base and home plate and will be available through March 27, or until the supply is sold. Tickets may be purchased in person or by completing a mail order form that can be found in the recreation racks.

Symphony discount—The Denver Symphony offers Martin Marietta employees a 50-percent discount to all classical, pops and kids concerts. (Great artist recitals are not included). You must present a coupon to be eligible for discount. Discount order forms are in the recreation racks and tickets may be ordered by mail or by presenting the discount coupon at the box office.

Discount Coupons for Funplex—Coupons offering roller skating, miniature golf or bowling for \$1, plus cost of any rentals, are available from all volunteer recreation representatives and at the employee services/recreation office. Coupons are valid through March 31.



Manufacturing Partners in Productivity (PIP) team members were recognized recently for completing training in problem-solving techniques.

First manufacturing teams graduate

The first Manufacturing Partners in Productivity (PIP) teams have completed their training. Each employee received certificates of achievement presented by Raymond Schwindt, director of manufacturing, at a recent graduation ceremony.

Partners in Productivity are small groups of employees with related work interests. Each group voluntarily forms a team and meets regularly to analyze work-related issues, using participative problem-solving techniques.

The three Electronic Manufacturing Facility (EMF) teams—the Super Specials, High Ca-

pacitors and Generic Peacekeepers—have members from the manufacturing, quality, manufacturing engineering, production control, liaison engineering and industrial engineering departments.

Both Schwindt and Jim Ritz, EMF manager, praised the members for completing the training and pledged continued support for the program. Also supporting the program are EMF management team members Merle McCaslin, Mel Peterson, Frank Harn, Dale Haberkorn, Gary Hinds, John Greenwood and Abe Shirazi. ■