

January 29, 1988 Number 2



**Titan IV roll-in ceremony
January 14, 1988**

Roll-in of first Titan IV vehicle celebrated at Cape Canaveral

The concept of "assured access to space" has moved a step closer to reality with the arrival of the first Titan IV launch vehicle at Cape Canaveral Air Force Station, Fla.

The arrival of the vehicle, the newest and largest in the Air Force's fleet of expendable launch vehicles, was hailed by Air Force Secretary Edward C. (Pete) Aldridge Jr. as a "major event in America's space program."

Also attending the roll-in ceremony on January 14 were Norman R. Augustine, vice chairman and chief executive officer of Martin Marietta Corporation; Gen. Bernard P. Randolph, commander of Air Force Systems Command; and Col. Lawrence L. Gooch, commander of the Eastern Space and Missile Center at Cape Canaveral.

Aldridge told an audience of approximately 500 Air Force officials, community leaders, aerospace executives and Martin Marietta employees that, "I would like to commend Norman Augustine and the people of Martin Marietta's Astronautics Group for making this event possible."

"The history of Martin Marietta's relationship with the Air Force reflects a commitment to corporate responsibility and excellent product performance," Aldridge continued.

The ceremony, held at Launch Complex 41, also marked the rededication of that complex to launch Titan IVs. The complex, which has not been used since the last Titan/Centaur

launch for NASA's Voyager in September 1977, was completely refurbished and modified by Martin Marietta under a program that began 2 years ago.

Aldridge, referring to recent criticism that America is "lost in space," said, "As I look back at this Titan IV, and at its new launch pad behind me, and look over at the launch pad where we will restore shuttle's operations, I see clear evidence that America's space leadership has not been lost."

The first Titan IV is expected to be launched later this year. Titan IVs also will be launched from Vandenberg Air Force Base, Calif.

Augustine, with the second stage of the Titan IV as a backdrop, called the Titan production and launch facilities, like Complex 41, "a national asset with a proven record of success."

"Our next significant challenge now lies ahead—to fly 23 Titan IVs over the next six years with the same dedication to mission success that has characterized the Titan program since the 1950s," he said. "Monday (January 11), in Denver, we conducted a roll-out. Today we celebrate a roll-in. What I'm really looking forward to is seeing all of you here for the roll-up!"

Martin Marietta is under contract to the Air Force to build 23 Titan IVs, and the Air Force has initiated programming to increase the total to 48.



NASA astronaut Godwin to speak at CWA meeting

Dr. Linda Godwin, a NASA mission specialist for future space shuttle flights, will speak about NASA's shuttle and space station plans at the next meeting of the Career Women's Association (CWA). The association's dinner meeting will be from 5-9 p.m. on Feb. 29 at the Wellshire Inn at East Hampden Avenue and South Colorado Blvd. Contact a CWA booster or call Sandy LaBonville at Ext. 1-1205 for more information or to make reservations. ■

On the cover

Edward C. Aldridge Jr., secretary of the Air Force, at the podium, received a plaque commemorating the arrival of the first Titan IV at Cape Canaveral, Fla., from Norman R. Augustine, corporate vice chairman and chief executive officer, far right. The plaque reads: "Launch Complex 41 Dedication, First Titan IV Arrival, January 14, 1988: Our goal of a balanced fleet of space vehicles, including the Titan family, the Delta family, as well as NASA's Shuttle, can provide our nation an assured access to space."—Honorable Edward C. Aldridge Jr.

Other officials present at the ceremony include, left to right, Col. Lawrence Gooch, Eastern Space and Missile Command; Col. Sebastian Coglitore, Space Division Titan IV program manager; Maj. Gen. Donald Cromer, Space and Missile Test Organization; and Gen. Bernard P. Randolph, commander, Air Force Systems Command.

Corrections

An error appeared in the Jan. 15 issue of the Martin Marietta News in the security rebadging article on page 4. The second to last paragraph should read as follows (the last paragraph also is included):

Because the Astronautics Group and I&CS must continue to process personnel security clearances within ceiling levels imposed by the DOD, the security clearances of transferring employees can not be transferred arbitrarily. An employee transferring from Astronautics Group to I&CS must process the "Request For Clearance" form through the I&CS Security office prior

to reporting for rebadging. Employees transferring to Astronautics must process the "Request For Clearance" form through their new department prior to reporting for rebadging.

Any questions regarding the procedure should be directed to Jerry Scherer, Ext. 7-6953, for Astronautics Group Security, or to John Major, Ext. 7-2677, for I&CS Security.

An error also appeared in the Jan. 15 issue regarding the performance sharings plan (PSP) values on page 4. The Fund A indexed equity value for October (in parentheses) should read: (4.1044445007).

Boginis awarded service medal



Boginis

James W. Boginis, director of requirements and business development for the Space Systems company, has been awarded the National Intelligence Distinguished Service Medal by the director of the Central Intelligence Agency (CIA). It is the intelligence community's highest award.

Boginis joined Martin Marietta in 1987 after a distinguished career in the U.S. Army and the Senior Intelligence Service (SIS). William Webster, director of Central Intelligence, will present the medal to Boginis at ceremonies this spring at CIA headquarters in Langley, Va. The medal recognizes the work Boginis performed during his 16 years with the SIS.

Before his career with the SIS, Boginis served 12 years in the U.S. Army, where he received the Bronze Star and the Joint Service Commendation Medal, among other honors. In 1984, Boginis received the rank of meritorious officer from the director of CIA.

Boginis has a bachelor's degree in chemistry from the University of Arizona and a master's degree in business administration from Tulane University. ■

Subcontract management: A challenge not met!



Maj. Gen. Weiss

(Editor's note: Maj. Gen. Bernard L. Weiss is commander of the Air Force Contract Management Division, Air Force Systems Command, Kirtland Air Force Base, N.M. He is responsible for the administration of major weapon systems acquisition contracts performed by aerospace contractors located throughout the United States.

Peter B. Teets, president of the Astronautics Group, has emphasized the need for strengthened subcontract management, especially major subcontracts in 1988 and beyond. He noted in his annual state of the business address recently that approximately 50 percent of the value of Astronautics Group contracts goes to subcontractors, and cited the need for diligent management of this work.)

One of my organization's greatest challenges is getting prime contractors to proactively manage subcontractor performance. Today's highly sophisticated aircraft, satellites and missiles are developed and produced by prime contractors with a cadre of subcontractors and suppliers whose work represents 40-50 percent of weapon systems cost. Prime contractors must properly select and adequately coordinate the performance of those large and small subcontractors and suppliers because poor subcontractor management nearly always results in quality problems and late deliveries of military hardware.

We in Air Force Contract Management Division found problems with the quality of subcontracted items in 1985, when we were conducting in-depth operational reviews of our 25 prime contractors. Those Contractor Operations Reviews, called CORs, examined each prime's quality assurance, manufacturing, engineering, property, contract management, safety and subcontract management systems.

Our first CORs found subcontractor performance deficiencies. The findings showed that prime contractor delivery and product quality problems were often created by sub-

contractor problems.

With the second round of CORs that began in January 1986, most of our prime contractors had made improvements in many of their previously deficient areas, but not in their management of subcontractor performance. Even though there had been some progress in the negotiation and award of subcontracts, more improvement is necessary in active administration of those subcontracts. For example, one of our Air Force Plant Representative Offices discovered that a subcontractor on one of our major programs had failed to perform contractually required quality-assurance inspections. Only after our AFPRO got involved, did the prime contractor start correcting the subcontractor's noncompliance. Moreover, there wasn't any evidence that the contractor would have acted without the AFPRO's intervention.

Late deliveries at the prime contractor level continue to plague Air Force weapon systems acquisition. AFCMD contracting officers have reduced progress payments and withheld other payments to protect the government's interests and spur prime contractors to remedy their delinquency problems. With few exceptions, our prime contractors haven't been reducing and withholding payments from subcontractors for their late deliveries. While specific contractual remedies may differ, we believe that some kind of remedy by prime contractors could influence subcontractors to improve delivery performance.

Subcontractor management planning is a necessary prerequisite to successful program performance. Primes must have an ongoing, aggressive management plan to oversee key subcontractors. Planning must include techniques to identify and correct subcontract performance problems before they become program critical. The planning must be supported by top management, include all functional operations in the plant, and demonstrate a commitment to enforce contract terms and conditions. When subcontractors fail to comply with contractual requirements, the prime contractor must take immediate steps to ensure timely correction action and protect overall program performance. Initial cost should not be the determining factor if a subcontractor has a history of having its products returned for rework or repair and retesting.

Functional fragmentation in surveillance of subcontractor performance has also led to reduced effectiveness. For example, the subcontract negotiator or material buyer may consult the approved supplier list, but rarely has any input into it. Similarly, it appears that manufacturing and engineering departments often pay little attention to the capabilities of potential suppliers. Still other functional departments believe surveillance of subcontractor performance is the responsibility of the buyer and don't get actively involved in supplier performance until a problem develops.

Contractors should develop and maintain qualified supplier lists based upon rigorous vendor performance system criteria. A prime

contractor can't expect exemplary performance from marginally qualified sources. Vendor rating and performance systems must be established to evaluate supplier performance based on multiple technical factors, including delivery performance, quality, technical capability, capacity, financial stability, management commitment, product support, and cost performance.

Despite the problems we've seen over the past years, there's been some improvement in subcontract management by the primes. The challenge has been and remains in adopting techniques to control and effectively manage subcontracting risk. Recent CORs, Contractor Purchasing System Reviews, and continuous surveillance by AFPROs have found better vendor performance analysis systems, surveillance planning, and functionally integrated management techniques. Some contractors are even conducting their own operational reviews of key suppliers and subcontractors. These are good initiatives.

Those contractors who have recognized and are accepting the challenge to better manage their subcontractors are applauded for their efforts. However, those not grasping their subcontracting problems or not devising and implementing strategies to meet them will become less competitive and put our nation at risk through late deliveries, noncompliant and more expensive military hardware. Effective subcontract management must be our prime challenge for the future.

—by Maj. Gen. Bernard L. Weiss, commander, Air Force Contract Management Division

SIP Values

Unit values for the savings and investment plan (SIP) for employees represented by United Aerospace Workers (UAW) and United Plant Guard Workers of America (UPGWA) in December (November values in parentheses) are:

Fund A:	indexed equity
.8771762115	(.8200430270)
Fund B:	fixed income
1.0305358846	(1.0241591996)
Fund C:	company stock
.8591531239	(.7856356052)

PSP Values

Unit values for the performance share plan (PSP) for salaried employees in December (November values in parentheses) are:

Fund A:	indexed equity
4.0483128719	(3.7664200578)
Fund B:	fixed income
2.8412118793	(2.8179579187)
Fund C:	company stock
4.4214248477	(4.0219476006)

PROJECT CHALLENGE

1987 accomplishments

Productivity efforts begun nearly a year ago have made significant progress in providing more cost-efficient and higher quality product to customers, those who manage Project Challenge report.

"We're proud of Project Challenge and the great strides we've made to improve our way of doing business," said Santo Bertuzzi, program director of Project Challenge.

"We have initiated more modern and streamlined operations in an ambitious course that involves more than 120 people, divided into seven organizations, all dedicated to increasing our competitiveness in the marketplace," Bertuzzi said. The goal is to increase productivity by 40 in 1988.

"The Project Challenge group has been very successful in performing pilot programs and proving concepts," Bertuzzi added. A report on accomplishments of the seven organizations follows.

- Kenneth R. Shipe, director of Process Simplification, and his group were established to enhance productivity by analyzing, clearly defining, and then simplifying work processes—the necessary prerequisite to automation. Accomplishments include simplifying the return-to-vendor process, publication of two "how to" manuals on process simplification and annual performance improvement, and 12 pilot programs in progress. "Automation without process understanding permits us to produce bad things at a higher and faster rate," Bertuzzi said.
- Ronald F. Drobnik, director for the computer-aided engineering, computer-aided design and computer-aided manufacturing (CAE/CAD/CAM) program, and his group began implementing integrated CAE/CAD/CAM into engineering and production operations to improve those areas through computer technologies. After developing various pilot programs and demonstrating their success, the group intends to integrate these results into the mainstream of production operations, and the Strategic Systems, Space Launch Systems and Space Systems companies. Results of the pilot programs indicated the following potential savings: reduced manpower associated with design and manufacturing processes; reduced engineering design span time; and improved engineering quality. On a broader scope, the team developed the preliminary requirements and conducted an industry survey for an engineering information system (EIS) that will enhance capabilities to manage technical information. Another focus of Drobnik's team in 1988 will be the development and possible demonstration of an EIS, following a thorough requirements definition phase.

- John L. Pauly, manager of the Manufacturing Resource Planning (MRP-II) program, and his group implemented a fully integrated MRP-II capability for the Small ICBM program, and a shop floor control/capacity requirements planning system for the Electronics Manufacturing Facility (EMF) and the Design to Produce Facility. The original MRP-II package purchased from Arthur Andersen, MACPAC/D, was combined with the following computer systems: Purchase Requirements Initiation system (PRINIT), PRIMA system, and the MOTION system, and was renamed the Integrated Manufacturing Planning, Execution and Control system, or IMPX. As a part of implementing this new capability at EMF, data accuracy has improved from a low of 17 percent earlier in the year to a high of 96 percent in the month of November.

There are still several areas that are lower than the 96 percent, but these areas also will improve, Pauly said. Overall, cost savings are expected in 1988 to improve by \$132,000 per month for Small ICBM, and \$72,000 per month for EMF. Parallel computer systems are operating now at Small ICBM until the decision is reached to turn off the old computer system.

- Ron Remy, head of the Cost/Schedule Control Systems Criteria (C/SCSC), and his group were established to initiate systemic improvements in the budgeting process, program cost control, cost schedule integration and reporting. Potential annual savings should be significant on ten major programs for integrated/performance measurement systems and on 35 non-major programs, Remy said.
- Dave L. Brodie, head of Computer Integrated Management (CIM), and his group were established to define the company version of CIM, plan its evolution, and provide requirements and integration for the project. They are completing a CIM strategic plan that portrays the long-term vision for Project Challenge, and an operations plan that identifies the 1988 project goals. The group has issued a system requirements document for the 1988 initiatives, and is beginning a task to manage the information systems architecture for use by the Astronautics Group. An interface control working group, which coordinates the exchange of data between Project Challenge pilot programs, has been in operation since early 1987, and will continue for new development efforts.
- John F. Dwyer, head of training for Project Challenge, and his group have stressed the critical nature of training at every level of CIM as key to changing the company's culture. The group has trained more than 3,000 employees, satisfying the short-term need, and implemented a certification pro-

gram headed by Tom Williams, with representatives from each Astronautics Group company. In November, the first employees were certified for Project Challenge-derived initiatives. To assure program success, certification encompasses personnel technical knowledge, formal training courses, on-the-job training, verification of skills and demonstration of individual and team capabilities.

- William E. Donnan, manager of the Integrated Schedule System (ISS) program, and his group were established to improve efficiency of planning and scheduling processes to reduce costs. They developed the processes and software necessary to electronically transfer contract requirement dates from program schedules to the MRP-II system. This capability ensures accurate and consistent dates from contract requirements through the manufacturing process. The group has negotiated a maintenance contract for Artemis, a software system used by all major programs for project scheduling. This contract provides a 38-percent reduction in maintenance charges.

They also have developed a PC-based re-scheduling package used by 67 users at the end of the year, and will release a PC-based page and line system in 1988. The group also developed a capability called the Summary Level System that enables modeling work to be performed electronically and identifies schedule conflicts that exist or can be predicted to exist. ■

Registration for onsite master's degree scheduled

A briefing and registration for the University of Colorado at Colorado Springs master of science degree in electrical engineering, with a systems engineering option, will be conducted Tuesday, Feb. 2.

Steve Ellis, a representative from the University's Continuing Education Department, will conduct the briefing and registration for the onsite degree program from 3:30-5:30 p.m. in the Presentation Room, Building 8100, Greenwood Commons.

For more information, contact Educational Services at Ext. 7-3736, 7-4050, or 7-5698. ■

KCFR seeks volunteers

KCFR FM, the station that carries National Public Radio, needs volunteers for the next fund raising campaign Feb. 1-6.

The station, solely funded by public donations, needs volunteers to answer telephones during the fund drive. For more information, or to volunteer, call Fitzroy Newsum, Ext. 7-5250.

Fifteen-satellite agreement reached

Martin Marietta Commercial Titan, Inc., has announced that it has entered into an agreement with GE's Astro-Space Division providing for the launch of 15 GE communications satellites on Commercial Titan launch vehicles over the next several years.

While specific details of the agreement remain proprietary to the two parties, Richard E. Brackeen, president of Commercial Titan, Inc., said the agreement provides significant benefits to both parties. Under the agreement, GE would receive assured launch and reflight features, as well as certain manifesting priorities and operational advantages.

"We are pleased to have secured a long-term launch agreement on the Titan," said Charles A. Schmidt, vice president and general manager of GE Astro-Space Division, adding that Titan's demonstrated reliability in excess of 96 percent should greatly enhance GE's overall satellite program competitiveness in the future.

Brackeen called the GE agreement a "benchmark order" that assures Commercial Titan's viability in an increasingly competitive space launch arena.

The GE contract brings to 19 the number of satellites committed to launch on Commercial Titans, beginning in 1989. ■

Property damage and loss reports urged

Reporting property loss or damage is vital to the company and its customers, and is an important part of Martin Marietta's property control system, reports Herbert L. Watkins, manager of property management systems.

An employee who witnesses damage to company property or discovers property loss should call Plant Protection, Ext. 7-4646, immediately, Watkins said. Security will notify the appropriate organization, including property management operations, personnel safety or product assurance, to initiate required actions.

Employees cannot determine if the loss or damage is of sufficient magnitude or importance to be reported, Watkins stressed. "All incidents must be reported, including property found that was previously reported lost."

In addition, if the loss or damage involves equipment, labeled identified property, or government-furnished property, the equipment custodian of the property must be notified. If employees do not know who the correct custodian is, contact property management operations. "Either the individual who reported the incident, or the equipment custodian, must complete a property loss/damage report (Form DEN 403100) in accordance with Standard Procedure 153.13, and deliver it to property management operations within three working days of the loss or damage incident," Watkins said.

For more information, call property management, Ext. 7-5431. ■



Daily earns award from suggestion program

Jim L. Daily, tooling welder, Plant Operations, seated, center, displays awards he received through the Success through Suggestions program by identifying a way to improve safety and save time in cutting various parts needed to build Titans. Congratulating Daily are, left to right, Robert Brewer, tooling foreman; Stanley F. Albrecht, vice president, Plant Operations; Daily; C.T. (Buck) Reynolds, manager of detail manufacturing; and Raymond F. Schwindt, director of Manufacturing.

I&CS chosen to develop National Test Bed for Strategic Defense Initiative

The National Test Bed contract is a strategic win for Martin Marietta Information & Communications Systems (I&CS), said Gerald A. Zionic, vice president, because it "places us in the forefront of what we consider to be two of our major technologies—computer simulations and software development."

I&CS was awarded the \$508 million contract for the NTB simulation and evaluation facility on Jan. 22. The NTB will be a primary element of the government's Strategic Defense Initiative.

"We are quite pleased to be a part of this important defense program," said Zionic, who led Martin Marietta's competitive design phase and who will head the NTB program for the company.

The 5-year contract, awarded by the Strategic Defense Initiative Organization and the Air Force Systems Command's Electronic Systems Division at Hanscom Air Force Base, Mass., on Jan. 22, calls for the design, installation and operation of the test bed for the triservice Strategic Defense Initiative program office. The computer-driven facility will be used to simulate, test and evaluate strategic defense concepts, architectures, battle management and hardware applications.

The contract will be performed by Denver I&CS, which will establish the primary test bed operation at Falcon Air Force Station at Colorado Springs. The National Test Bed will

include a number of sites across the country for experiments and simulation, all electronically linked to the new Colorado Springs complex known as the National Test Facility Defense Initiative program.

"The National Test Bed represents a quantum leap in the field of computer simulation," said Norman R. Augustine, vice chairman and chief executive officer of the corporation. "This program will greatly aid the Strategic Defense Initiative Organization's efforts to ascertain both the feasibility and utility of what is certainly the most sophisticated defense system ever devised," he said.

The National Test Facility also will support advanced research in computer and software technologies, particularly architectures needed for future strategic defense simulations and battle management command, control and communications.

The National Test Bed will enable planners to compare, evaluate and test alternative proposals for a layered defense and evaluate specific technology applications for a strategic defense system before building hardware.

Teamed with Martin Marietta on the National Test Bed program are Hughes Aircraft Company, IBM, Logicon, Singer-Link, Geodynamics, Computer Technology Associates, Nichols Research, Ralph M. Parson Company, Carnegie-Mellon University, and Ferranti of the United Kingdom. ■

Employee Services/Recreation

Child Care—La Petite Academy child care centers in Colorado offer Martin Marietta employees a 10-percent discount off weekly tuition for any child not currently receiving a discount. The offer is a space-available basis. Obtain flyer with details from the recreation racks or from the Recreation/Employee Services office.

Denver Symphony Orchestra—Martin Marietta employees can receive a 50-percent discount on all 1988 classical, pops, chamber and family concerts (Great Artist recitals not included). Obtain a discount flyer from the recreation racks. Tickets may be ordered in advance by mail or the discount can be redeemed at the symphony box office. Tickets are subject to availability.

Theater—Stagewest, located at the Galleria in the Denver Arts Center, 14th and Curtis Streets, offers 25-percent off ticket prices to the musical "Beehive." The show features music made popular by female groups and soloists of the 60s. Obtain the flyer with discount details from the recreation racks. Ticket sales are handled by Stagewest.

Amateur Radio—The Waterton Amateur Radio Society will meet at 5 p.m., Tuesday, Feb. 2, in the Hamshack, west side of the recreation area, to elect new officers. Contact Jack Crabtree, Ext. 7-4543.

Hunting and Fishing Club—The group will meet at 5 p.m., Monday, Feb. 8, at the club meeting room in the recreation area.

Scuba Club—The Fathom Divers will meet at 7 p.m., Thursday, Feb. 11, in the vending machine lunchroom, at DSC. All members and interested employees are urged to attend and assist in planning future club trips and activities.

Copper Cards—A Copper card holder can purchase discounted \$22 adult lift tickets at the Copper Mountain ski area. The card also offers a free day of skiing after April 1, and provides discounts on lessons, lodging and restaurants. Cards are available from the Employee Services/Recreation office for \$7 through Feb. 18.

Breckenridge Discount Coupons—Coupons offering the \$21 adult lift ticket or an all-day lesson for \$21 (regular price is \$30) are available from the Employee Services/Recreation office or from volunteer recreation representatives. Coupons can be redeemed at the ski area.

Denver Center Theater Company—Coupons offering 25-percent off the price of two tickets to any production are available in the recreation racks, at the recreation office and from recreation representatives. Three performances, "Long Day's Journey Into Night," "Trophy Hunters," and "Two Gentlemen of Verona," run through Feb. 13. Upcoming performances are: "Table Manners," Feb. 29-April 9; "The Colored Museum," March 1-April 9; "A Lie of the Mind," March 7-April 9; and "Man of La Mancha," April 18-June 4.

Martin Marietta Barber/Styling Shops—Convenient, professional, low-cost hair cuts are available to all employees and Air Force personnel at the following locations: Waterton—basement, Engineering Building, barber/stylist Bill Baker, Tuesday through Friday, 6 a.m. to 3:30 p.m., Ext. 7-3029. LSC—barber/stylist Bill Baker, Monday and Friday, 6 a.m. to 3:30 p.m., Ext. 7-0560. Greenwood Commons—Bldg. 6050, barber/stylist Deb Baker, Monday and Tuesday, 6:30 a.m. to 3 p.m., Ext. 7-1321. DSC—basement, barber Doc Allison, Tuesday through Thursday, 6:30 a.m. to 5 p.m., Ext. 7-9157.

Archery—The Red Rock Bowmen will meet at 4:45 p.m., Tuesday, Feb. 9, at the club meeting room in the recreation area. Contact Rich McNutt, Ext. 7-3324 or James Gilmore, Ext. 7-4203.

Mile High L5—The chapter of the National Space Society welcomes employees to the Friday, Feb. 12, meeting at 7 p.m., in SouthPark West Presentation Room No. 103-A. The speaker will be Bob Stack, Colorado's candidate for Teacher in Space, who will speak on "Futures in Space." For information, call Jeff Zerr, 790-3857.

Get a Fresh Start—Free smoking cessation classes are offered to all Martin Marietta and Air Force personnel, their spouses and dependents. Classes run from from 5-6:30 p.m. Feb. 15, 18, 22, and 25, in Room 208 at Goddard Junior High School, 3800 W. Berry Ave. To register, obtain a form from the recreation racks or from the education catalog, and mail it one week before the class begins to Employee Services, Mail Stop 1344.

Rocky Mountain Alpine Club—Cross-country ski trips are set for Jan. 30: St. Louis Creek, beginners/intermediate. Contact Rich Nicholson, Ext. 7-2495. Feb. 6: Ski Cooper, beginners telemark lessons. Contact Steve Ahmann, Ext. 7-8693. Feb. 13: Telemark Day, location to be determined. Contact Frank Farrel, Ext. 1-1576, or Steve Ahmann, 7-8693. To participate, phone the employee contact by Wednesday before the scheduled trip.

Horseback Riding—The Ridge Riders Saddle Club will meet at 7 p.m., Tuesday, Feb. 2, at the club meeting room in the recreation area. Contact Irene Woodzell, Ext. 7-5804.



35 and 40 years' service recognized

Employees celebrating 35 or 40 years' service with Martin Marietta were honored at a dinner Nov. 18. Left to right, the honorees are: Vince Moravek, Lee Bogema (40 years), Albert Sellke, Fred Bennett, John Goodlette, Robert Eyer, Kenneth Portz, standing, (40 years), Cal Ensor, standing. Not pictured: Ted Zen.

MARTIN MARIETTA NEWS
Published by Public Relations
Editor Jan P. Timmons
MARTIN MARIETTA
ASTRONAUTICS GROUP
P.O. BOX 179—Denver, CO

January 29, 1988