

MARTIN MARIETTA

news

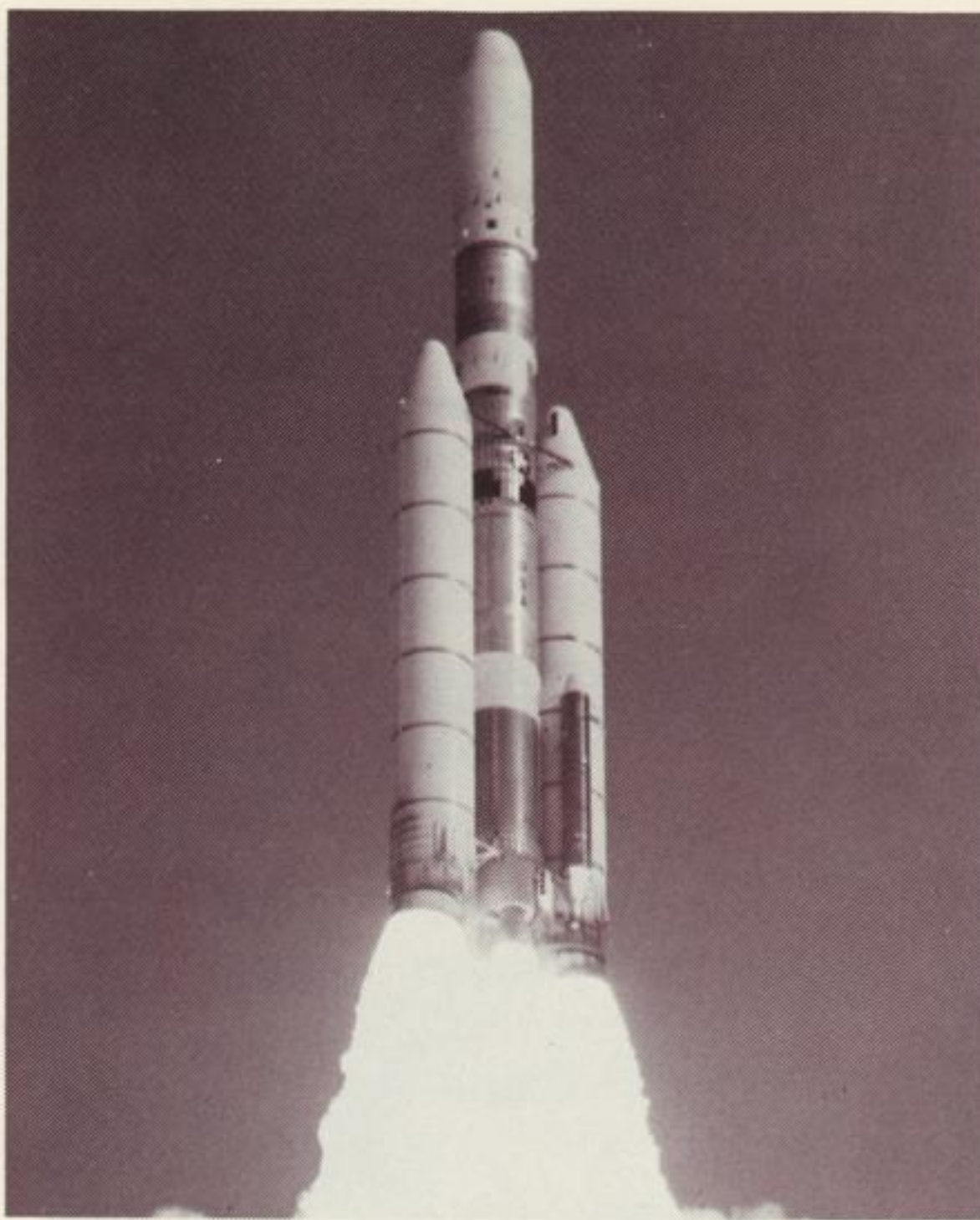
DENVER DIVISION

NUMBER 8/1974



FAMILY DAY
AT THE CIRCUS
1974





Corporate Honors Night ceremony scheduled June 21 in Washington

Martin Marietta's Corporate Honors Night ceremonies will be held June 21 in Washington, D.C. at the Mayflower Hotel.

Those being honored at the event will include Denver division nominees for Author, Engineer and Inventor of the Year awards along with 12 others receiving special recognition.

Richard D. Moog, unit head, vehicle dynamics, for authoring his technical paper, "Qualification Flight Tests of the Viking Decelerator System;"

Peter B. Teets, project engineer, flight

control systems, (Engineer of the Year), for his development of a new guidance control for the Titan IIIC;

Dr. Benton C. Clark III for inventing an energy dispersing X-ray fluorescence spectrometer that will characterize the elemental composition of surface materials on Mars.

The annual Honors Night is the highlight of the Employee Recognition Program conducted by Martin Marietta.

Other division candidates attending who are to be considered for special recognition include: C. E. Carnahan, B. Lee Bogema, E. D. Fox, Thomas S. Fujiyoshi, Richard C. Lea, James W. McAnally, J. W. McCown, Thomas W. Morris, George A. Rodney, Laurence R. Soderberg, Morris H. Thorson, and Randall L. Williams.

Also attending, as division management representatives, will be: L. J. Adams, J. A. Coryell, Richard M. Davis, Caleb B. Hurtt, Howard F. Keyser, C. G. Stucker, R. S. Williams, and Richard E. Brackeen.

Titan launch is rated near perfect

The first of a new generation of communication satellites that will pioneer the educational television, data relay, air traffic control, and information transmission systems of the future was launched May 30 from Cape Canaveral by a Titan IIIC.

Al Schaeffle, program director, Titan IIIC and E, stated: "This latest launch is the most accurate, synchronous mission flown to date to our knowledge."

"And, it is the second flight for the new guidance and control system developed by the Denver division and Delco Electronics, a division of General Motors," he explained.

The largest, most powerful, communication satellite ever placed in orbit, the ATS-F will be stationed in orbit 22,300 miles above the Pacific Ocean west of Ecuador.

It will relay experimental health service and educational TV broadcasts for about a year to remote locations in eight Rocky Mountain states and in Alaska and Appalachia. It will also carry out more than 20 major meteorological, air and sea navigation and traffic control, and other experiments over a two-year period.

The satellite is the first ever built to beam signals directly to individual television sets equipped with special receivers.

Compressed air tank results from transfer of space technology

A prime example of the continuing effort by the Denver division and NASA to transfer space technology and know-how to commercial and public applications is the recent development of a filament-wound compressed air pressure tank for use by firemen.

The new pressure tank weighs 60% less than present tanks, is much smaller in size, and has an equivalent air capacity.

Martin Marietta Aluminum designed and fabricated the aluminum liner. Vital to the liner's strength, however, was the technique of "alternate layer overwrapping of the metallic liners with fiberglass reinforced plastic composites" developed by the Denver division.

The technique of overwrapping was invented by Denver division inventor, Emory J. Beck, under a NASA-JSC contract. Testing of the fireman's tank is scheduled this year.

A design effort representing a second generation tank, along with procurement and testing of the new configuration, is expected to be initiated by NASA as a follow-on to the original contract.



Emory J. Beck (right) displays a pressure vessel that demonstrates the technique of "alternate layer overwrapping of metallic liners with

fiberglass reinforced plastic composites." Looking on at left is Robert G. Morra, manager, structures and materials.



Several recently honored members of division-sponsored Junior Achievement companies discuss their company products with

division JA Coordinator Robert H. Boger (standing). Seated from left: Charles Johnson, Dave Stitt, Nancy Marfut, and Mike Siefkes.

5 division sponsored Junior Achievement companies win honors

The five Junior Achievement companies sponsored by the Denver division took more than their share of annual awards in 1974, with high individual honors going to six youths.

Charles Johnson, president of B.L.A.N.K. Company, was named President of the Year out of the 52 Junior Achievement companies in the Denver metro area.

Personnel Executive of the Year honors went to David C. Stitt, a member of The Persuaders. Second place honors as Marketing Executive for B.L.A.N.K. Company went to Nancy Marfut and Ward Marshall, Titan Enterprises Company, took second as Best Salesman of the Year. Mike Siefkes of B.L.A.N.K. was third Best Salesman.

The top award, a \$5000 scholarship to the University of Denver, went to Gail Castro, treasurer of the Martin Marietta sponsored Jac-Of-All-Trades Company.

In company awards, B.L.A.N.K. took third as Company of the Year and as

Production Company of the Year. Third place as Marketing Company of the Year went to The Persuaders. The 5 High Products Company received numerous monthly awards during the year.

LST proposal to be made in July

A proposal from the Denver division for a Phase B Definition Study on one of the three major units of the Large Space Telescope—the Support System Module—will be submitted to the NASA Marshall Space Flight Center in Huntsville, Alabama, in July.

Two Phase B contracts, each running 15 months, will be awarded. Lasting through 1975, these studies will then be followed by a Phase C competition for the design and assembly of the SSM.

The LST is to be a national observatory located in space for the study of the universe. The three meter, diffraction-limited telescope system will weigh 25,000 pounds and be 42 feet long and 12 feet in diameter. It is composed of three major units; the Optical Telescope Assembly, the Scientific Instruments, and the Support System Module.

The SSM contains the subsystems necessary for power, attitude control and fine pointing, communications, data management, and thermal control.

The Denver division is currently engaged in one of two Phase B Studies from NASA for the OTA/SI accommodation. ITEK and Perkin-Elmer are the

Division provides 14 Denver area youths summer employment

Fourteen Denver area youths, including five corporate scholarship students, have been employed by the Denver division as part of the Company's continuing summer hire program.

Designed to assist students and non-students in furthering their educational or vocational capabilities, the program helps area youths by providing employment that:

1. Gives them in-depth, on-the-job experience;
2. Provides a competitive wage structure for their experience level, and;
3. Gives the division the additional infusion of energies and ideas of those entering the industrial job market.

Nine of the 14 youths were hired by the Professional and Industrial Relations Department under its Disadvantaged Youth's Activities. They include Adrienne Yamada, Phillip Lyle, Valerie Embry, Chester Talley, Derrick Anthony Johnson, Mike Smith, Willie Drake, Joseph Carr, and Willia Sidney.

The five corporate scholarship winners accepting summer hire offers at the Denver division include Donna Bond, Brian Kirschner, John Lipski, Kris Simonson, and Dave Zuckerman.

contractors, with Martin Marietta a member of the ITEK team. Astronomer teams are currently defining the Science Instruments for NASA Goddard Space Flight Center.

Completion of the OTA/SI Phase B studies will see a Phase C contract awarded in 1975 for the design and fabrication of the OTA.

Operating above the earth's atmosphere, the optical instruments of the LST can be used to study galactic, extra-galactic, stellar, and solar systems with more precise resolution than currently possible. With LST, astronomers will be able to determine the answers to such questions as the extent of the universe, whether it is expanding or contracting, and the birth and death of matter.

The LST is scheduled for a 1981 launch by the Space Shuttle. After approximately two and one-half years in orbit it will be returned to earth for refurbishment and then re-orbited.

It is planned that this cycle, along with minor in-orbit maintenance, will provide a minimum useful life of 15 years at minimum cost.

On the cover --

Two big performances of the Shrine Circus on June 8-9 were attended by thousands of Denver division employees and members of their families. The event has been hailed as the most successful Family Day on record for the Division. More than 13,000 tickets were provided with more than 50 percent of all employees participating, according to Professional and Industrial Relations.

Executive Management Profiles

[Seventh in a series of sketches of the division executive management.--Ed.]

A smart Ivy League look, a clipped Eastern accent, and an intense approach to most subjects are distinguishing traits of the Denver division's director of Professional and Industrial Relations, R. E. "Dick" Weber.

However, they are sharply incongruous with his thinly veiled passion for hunting . . . and, the fact that he was signed as a pitcher for the Philadelphia Phillies organization shortly after his graduation.



Richard E. Weber

Weber's budding career as a major league moundman for the Phillies was short lived. Within days of signing his pro baseball contract, he was granted a scholarship to Rutgers University. At Rutgers, he compiled a record of 18 wins

against one loss, including a no-hitter against arch rival, Lehigh University.

Born July 25, 1927, in Deans, New Jersey, Weber was graduated from Jamesburg High School in 1944. He was graduated from Rutgers in 1949, and joined Martin Marietta in Baltimore a year later.

After 12 years at Baltimore and two with company headquarters, Weber was transferred to the Denver division in 1962 as head of the Administration department. In 1971 he was named director of the division's Professional and Industrial Relations department.

The department employs more than 200 persons including the following sections; Safety and Security, Food Services, Staffing and Employment, Equal Opportunity, Employee Relations, Wage and Salary, and Medical Services.

Weber and his wife, Irene, have two children. Their daughter, Sharon, was recently graduated from Colorado State University; son, Richard A., completed his freshman year at the University of Nevada in Las Vegas this spring.



Air University certificates were awarded these three Air Force officers at a special division luncheon on June 11. From left: George W. Morgenthaler, operations vice president; Major

Thomas Bennett, Major Angelo Zigrino, Captain Stanley Condojani, and Colonel George Brunsman, Air Force Plant Representative.

Air University certificates awarded 3 United States Air Force officers

Air University graduation certificates were presented to three United States Air Force officers June 11 by George W. Morgenthaler, operations vice president.

The graduation marked the completion of 10 months of training at the Denver division under the Air Force Education-with-Industry (EWI) program.

Administered by the United States Air Force Institute of Technology, EWI is a graduate-level management internship program for career officers that emphasizes on-site industrial education.

The officers are Major Thomas A. Bennett, Major Angelo R. Zigrino, and Captain Stanley S. Condojani.

Study scheduled to start on reentry craft

A study to define experiments to be performed on the proposed new X-24C reentry vehicle will get underway at the Denver division this month.

The Air Force contract, from the Flight Dynamics Laboratory at Wright-Patterson Air Force Base in Dayton, Ohio, is expected to lead to a preliminary design contract for the craft in late 1974.

MARTIN MARIETTA NEWS

Published by
Communication and Public Relations
MARTIN MARIETTA AEROSPACE
Denver Division
P.O. Box 179
Denver, Colorado 80201
June 1974

Three new trainees assigned to the Denver division's professional development section will commence their EWI training in September. They are Captain Paul W. Crank, Captain James W. Medford, and 1st Lt. Linda A. Lowe.

Medical department expansion to double emergency room size

Expansion of the Denver division's medical services department is planned this year to more than double the present emergency room facilities and create a new cardio-pulmonary testing laboratory.

The expanded facilities will be backed up by a newly installed two-way radio communications system to give medical personnel contact with all safety-security points and emergency vehicles operated by the division.

"With completion of our present expansion program, division employees will have one of the most modern, up-to-date industrial medical treatment facilities in the state," according to Dr. Jim Stapleton, division medical director and manager of medical services.

The expansion project scheduled to start in the near future, will significantly increase the emergency room area and provide a testing laboratory.

Equipment planned for this area will form the nucleus for an advanced detection center dealing with cardio-pulmonary problems.