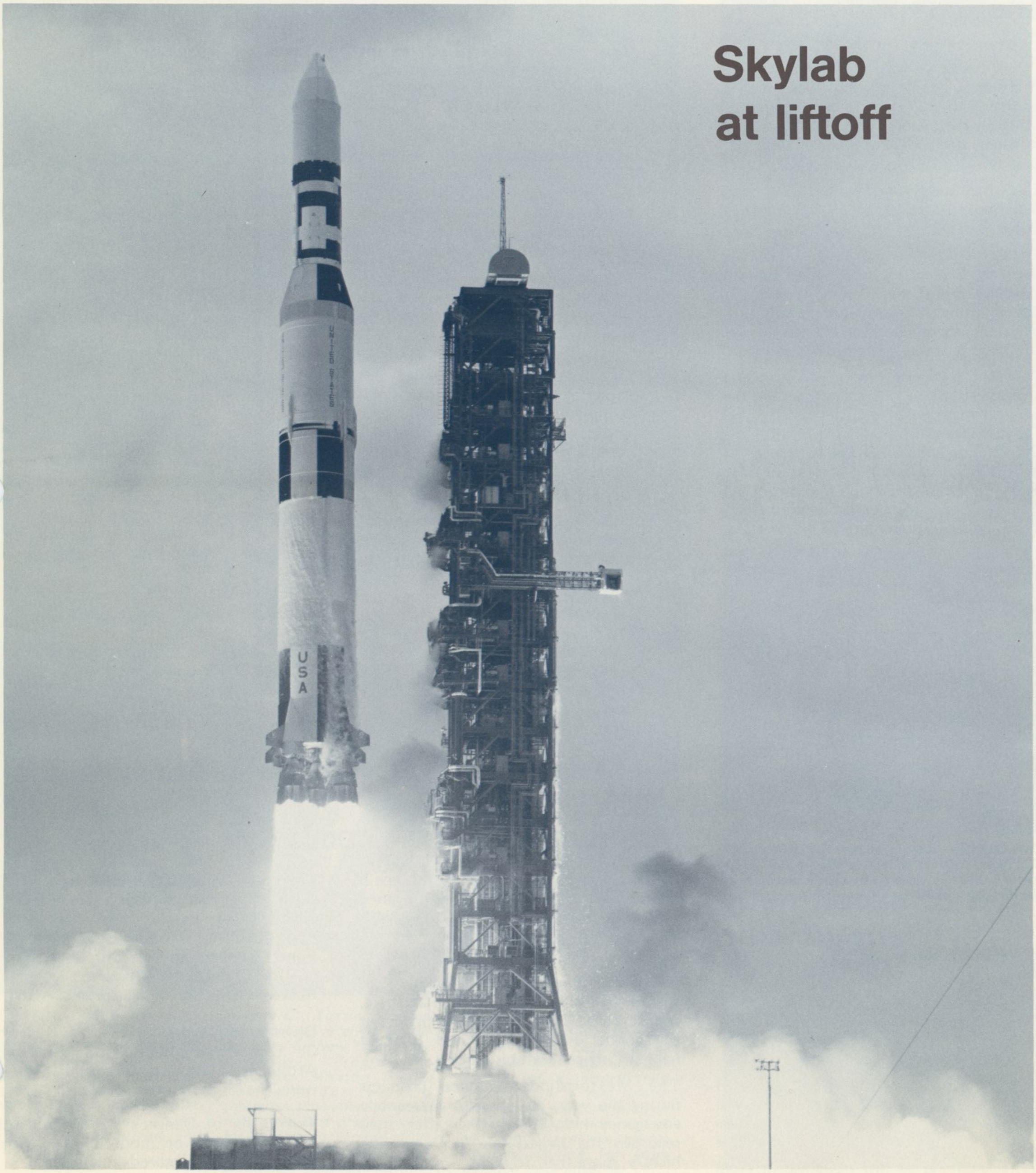
MARTIN MARIETTA
news
DENVER DIVISION

NUMBER 7/1973

Skylab at liftoff



On the cover ——

The Skylab space station, including the Denver assembled and furnished Multiple Docking adapter, left Complex 39A at Kennedy Space Center atop a modified Saturn V rocket at 11:30 am (MDT) May 14. Ten minutes later the 100-ton space station was in orbit.

Triche replaces Davidson in NASA

A change in leadership took place May 1 in the NASA Skylab resident manager's office, when Albert B. Triche, deputy manager, was named to replace William E. Davidson as manager of the office.

The office jointly represents the Lyndon B. Johnson Space Center and the Marshall Space Flight Center (MSFC).

Triche has been in the space and missile field for 20 years. He came to the division in 1969 from the Manned Spacecraft Center (now Johnson Space Center) in Houston, where he was on the staff of the advanced spacecraft technology division.

Davidson, a 21-year veteran of the missile and aerospace field, moves to the European Space Research and Technology Centre in Noordwijk, the Netherlands, where he will be the senior MSFC technical liaison representative. He came to Denver division in 1967 from the Manned Spacecraft Center, where he was MSFC liaison representative.

Cake cutting was in order for William E. Davidson (left) at a farewell reception in his honor. Albert B. Triche, Davidson's successor as the division's Skylab resident manager, watches.

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June 1973

Employees rally to aid Skylab

More than 1,000 division employees rallied to assist the National Aeronautics and Space Administration in its effort to save the crippled Skylab.

During the two weeks between launch of the orbital lab and the crew, division personnel worked around the clock at Houston, Huntsville, St. Louis, Denver, and at the Langley Research Center.

Their names, faces and individual contributions became a blur in the flow of events. However, the sum total of their efforts etched a picture of what dedicated employees can do in a crisis.

Following are a few of the areas in which persons at Denver were involved: thermal and electrical computer analyses, the design and fabrication of a pantograph or expandible boom, the design and fabrication of suggested metal cutting tools, the fabrication of a solar curtain for NASA's consideration, and the modification of the back-up model of the Skylab photometer experiment (T027).

Within hours after trouble set in, personnel here started analyzing data coming back from Skylab to determine just what had happened. Later, thermal analyses suggested ways the temperature in the Orbital Workshop (OWS) might be stabilized and still generate needed electrical power. Suggestions were also made on the best way to conserve the electrical energy that was being generated.

Engineers modified the division's Lunar drill into a metal nibbler. They also took a set of tree trimming shears and remounted them on a retractable handle for possible use as metal cutters.

The cutters were for possible use in freeing the jammed OWS solar panels or clearing away metal that might interfere with the deployment of the sun shade.

A solar curtain was designed and shipped to NASA for its consideration. The curtain was made from insulation material used in the Titan III Transtage.

The expandible boom or pantograph was sent to Huntsville as a possible alternative device for unfurling a solar curtain.

The primary sun shade—an umbrella-like device—was fitted into a modified back-up canister for the T027 experiment. Engineers removed the extension mechanism and associated electronic hardware and then further modified the canister. It was sent to the Johnson Space Center and outfitted with the parasol sun shade, tested, and approved for the flight.

"The devotion and dedication of employees in assisting NASA is outstanding." said C. B. Hurtt, vice president for Manned Space Systems. "We are a member of a government-private enterprise-university team, and we are doing our job well," he added.

Masterminds top JA company

Inspired leadership and hard work paid off for The Masterminds in 1973, as they were named co-Company of the Year for Metro Denver Junior Achievement.

The Masterminds, one of four JA companies sponsored by Denver division, shared the honor with The Sole Scrapers, sponsored by Gates Rubber Company, at the annual Future Unlimited Banquet held at Currigan Exhibition Hall.

The Masterminds switched products during the year, changing to automobile emergency kits. Shortly thereafter, they recorded the largest sale in Denver JA history, more than $6,000.

The company paid $1.25 for each $1.00 share. They also donated a sander to the Denver JA center and made cash contributions to the JA Scholarship Fund, Children in Need of Supervision (CHINS), and the Children's Asthma Research Institute and Hospital (CARIH).

Division employees John R. Meyer, Irvin C. Obermeyer, Vernon D. Peterson, Arthur H. Hale, and George J. Madric were The Masterminds' advisers.

Twenty-six of Denver's 72 JA students recording $100 or more in sales were from division-sponsored companies.

13 employees retire under pension plan

Thirteen employees retired from Denver Division between February 1 and June 1, 1973, under provisions of the Martin Marietta pension plan.

Name	Position	Service Dates
F. H. Nicholson	engineer	Sept. 25, 1930–Feb. 1, 1973
W. B. Yates	engineer	June 10, 1940–Feb. 1, 1973
A. K. Lagerquist	engineer	July 17, 1956–March 1, 1973
H. E. Bright	engineer	Feb. 6, 1939–April 1, 1973
P. M. Knox	engineer	May 15, 1956–April 1, 1973
M. I. Duke	engineer	Dec. 1, 1940–April 1, 1973
E. F. Schottler	engineer	Aug. 5, 1956–April 1, 1973
W. M. Goodwin	pipefitter	Dec. 17, 1959–April 1, 1973
R. S. McMillan	clerk	Dec. 15, 1957–May 1, 1973
E. E. Anderson	fabrication inspector	July 26, 1957–May 1, 1973
R. H. Lewis	material control specialist	Jan. 20, 1941–May 1, 1973
A. E. Ostroff	engineer	March 1, 1948–May 1, 1973
C. E. Coggins	auto mechanic	July 9, 1959–June 1, 1973

Recreation calendar

Golf—June 9 at Foothills course and June 16 at Overland and Willis Case. Tournaments are partner-best ball.

Softball—Slow pitch leagues play each Tuesday and Wednesday, beginning at 5:30 pm. Fast pitch league plays each Thursday. All games at Fort Logan Center.

For information on these and other activities, call the recreation section, extension 2525.

2 students earn division science scholarships

Cheryl Peltz, whose experiment was part of the Skylab student experiment package, has accepted one of two division-sponsored scholarships to the 1973 Frontiers of Science Institute.

Brian Leverich of Thomas Jefferson High School is the other division scholarship recipient. Miss Peltz attends Littleton's Heritage High School.

Held at the University of Northern Colorado in Greeley in conjunction with the National Science Foundation, the eight-week Institute provides instruction in physical and biological science, mathematics, and written and oral communication.

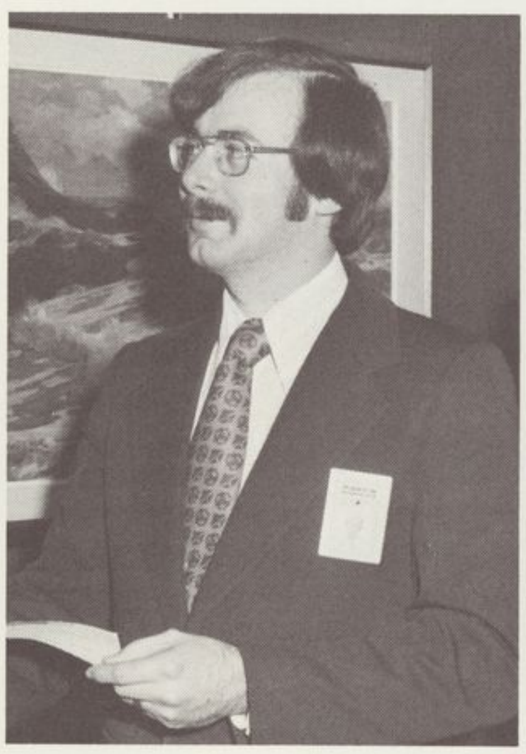
The 32 high school juniors are selected by the University and NSF, with those from Colorado receiving scholarships from industrial and business firms in the state.

During the previous 14 years of the program, 354 students have participated.

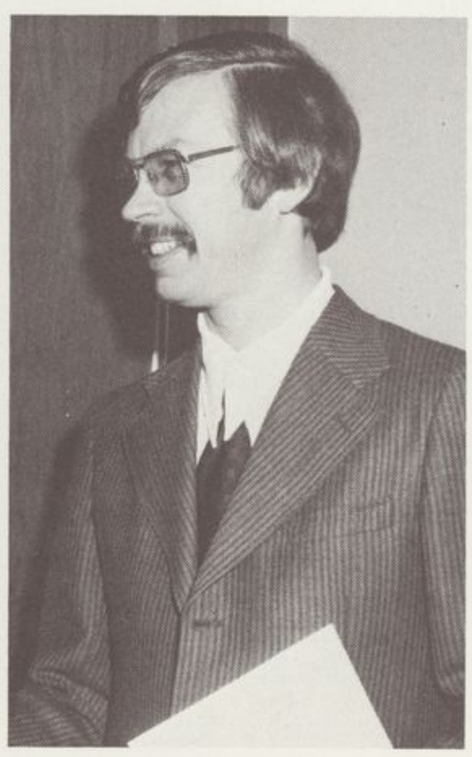
"I guess my winning shows that once you get over 20, you're not over the hill," was the understatement of Cocoa Beach, Florida's new Miss Bikini. Pollyanne Faris, 24-year old Martin Marietta Skylab secretary at Canaveral Operations, won the top prize at the 9th annual bikini pageant, sponsored by the Cocoa Beach Jaycees in connection with the Easter Surfing Festival. Miss Faris admitted embarrassment at the proceedings, especially the hollering and whistling of the congregated surfers. She confessed: "I didn't really want to enter the contest, but my boyfriend registered me and I couldn't back out."

Division award programs prove fruitful for three more employees

James L. Maschmann, planning and management systems, was presented a U.S. Savings Bond for his cost reduction suggestion under the Drone contract. His analysis of possible changes in the flight test program led to a substantial reduction in anticipated costs.



James C. Tuttle, systems performance, received a cash award for his New Technology disclosure, "Program for Optimum Mission Profile Design." This working computer simulation program selects the best profile values for such items as final orbit elements, launch time, and sequence of major events.



Carl L. Jensen, thermophysics, received a cash award for his invention, "Zero Power Thermal Fluid Pump." His concept of a thermal fluid pump with a zero power requirement was considered an outstanding approach to meet the need for a reliable thermal control device for long duration space missions.

Division open house to be held August 11

Employees will be able to show their families where they work at an open house Saturday, August 11, at the main plant.

The purpose of the open house is to foster a better understanding of the division and its work among the employees' families. Tours and exhibits will be featured.

More information will be provided later.

Scouting first achieved by Jackson family

If Bill Jackson stops to show you a picture, stop. You will see a photo record of an historical moment in the lives of the Jackson family and in Scouting in the United States.

Bill—William S. Jackson Jr., Industrial Engineering chief for Manufacturing on Skylab—is the proud father of three boys who all became Eagle Scouts on the same day. That's the first time that has happened in the recorded history of the Scouting movement in the U.S.

"I am especially proud of my three sons," Jackson said. "They set the earning of the Eagle rank as a group goal and made it."

The Jackson boys were awarded Eagle Badges in a court of honor May 15. The awards had been approved April 16.

Robert W. Jackson is the eldest of the three. He was born April 28, 1958 and joined the Boy Scouts in October 1970. He is a student at Heritage High School and is planning a career as an architect. He is also interested in the U.S. Military Academy at West Point.

The middle son is William S. Jackson III, born April 27, 1959. He became a Scout in January 1971 and is a student at Euclid Junior High School. He is interested in the U.S. Naval Academy.

Youngest of the Jackson boys, and perhaps the youngest Eagle Scout in Colorado, is Steven M. Jackson. He was born April 28, 1960. He became a Boy Scout in April 1971 and also attends Euclid Junior High School. Attending the Air Force Academy and being a dentist are his career goals.

All three boys hold the Scout Medal of Merit for action in an emergency, all are members of the Order of the Arrow—an honorary group—and all hold the one mile swim award.

A proud moment in the lives of the Jackson family is shared with Colorado Governor John A. Love. New Eagle Scouts are Robert, Steven, and William Jackson, sons of William S. Jackson, shown at right. All three boys were awarded their Eagle badges at the same court of honor. Governor Love commended the Jackson boys on the achievement.

Scouting is not their whole life, however, their father points out. "The boys are all active in school, but more important to me is what they do at home. Their mother died six years ago and we are four men alone. The boys do the housekeeping, meal planning, meal preparation, and grocery shopping. All I do is push the shopping cart and write the check."

The boys are members of Troop 362 sponsored by the Mark Hopkins Elementary School PTO.

Three division employees are also assistant scoutmasters of the troop. They are Paul S. Fedec, Finance; Joseph Neri, supervisor of the Quality Control Testing Laboratory; and Lewis J. Moyer, Quality engineer. Moyer was formerly scoutmaster and his son, David, was the first Eagle Scout in the troop.

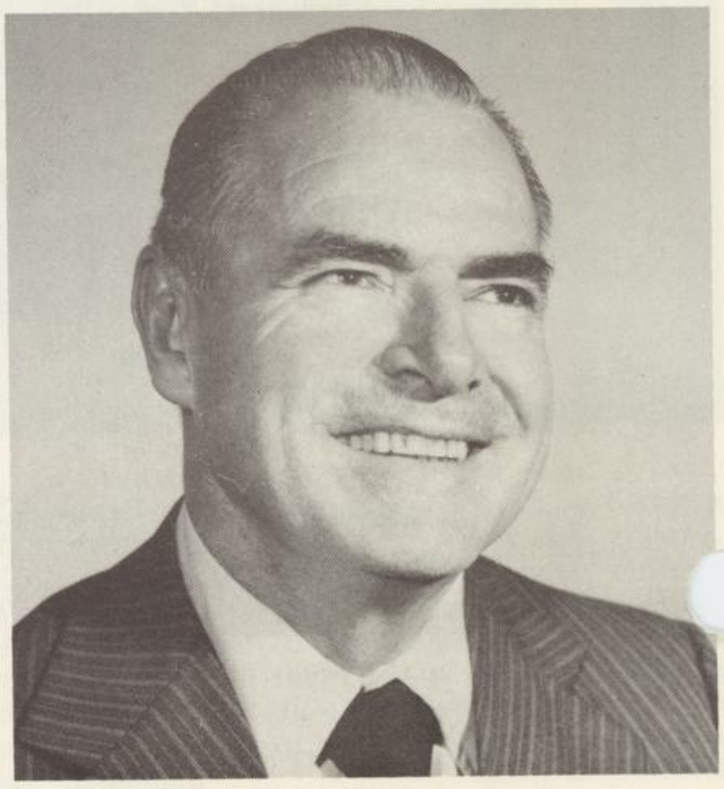
Former Denver vp earns promotion

Frank X. Bradley, former Denver division marketing vice president, has been elected executive vice president of Martin Marietta Aluminum Inc.

Bradley was also elected a vice presidei of the parent company, Martin Marietta Corporation.

He joined Martin Marietta in 1959 as an aerospace planning specialist in Washington, and came to Denver in 1963. He transferred to Martin Marietta Aluminum in 1970 as marketing vice president and, most recently, has been vice president for projects and planning.

A retired U.S. Army colonel, Bradley has a bachelors degree in accounting and statistics from the University of Alabama and a masters degree in international relations from Columbia University.



Frank X. Bradley

Shuttle tank bid in, waiting begins

The waiting and speculation began on May 17. It won't end until July.

May 17 was when Martin Marietta's Denver division, The Boeing Company, Chrysler Corporation, and McDonnell Douglas Astronautics Company submitted space shuttle external tank bids to NASA.

The winner will be announced in late July, with work to begin in August.

R. S. Williams, division vice president and external tank project manager, praised the 200-man team that put together the 1,000 page, eight-volume proposal.

He said: "There was a great deal of hard work and sacrifice involved here, including much overtime. The employees' dedication to excellence has assured us of a proposal that is highly deserving of a win in this competition."

The successful bidder will design, develop, and manufacture three tanks for testing and six flight articles. Plans call for 445 shuttle missions through the 1980s, each requiring an external propellant tank.

The tanks, approximately 155 feet long and 27 feet in diameter, will be built at NASA's Michoud assembly facility near New Orleans.