MARTIN MARIETTA
news
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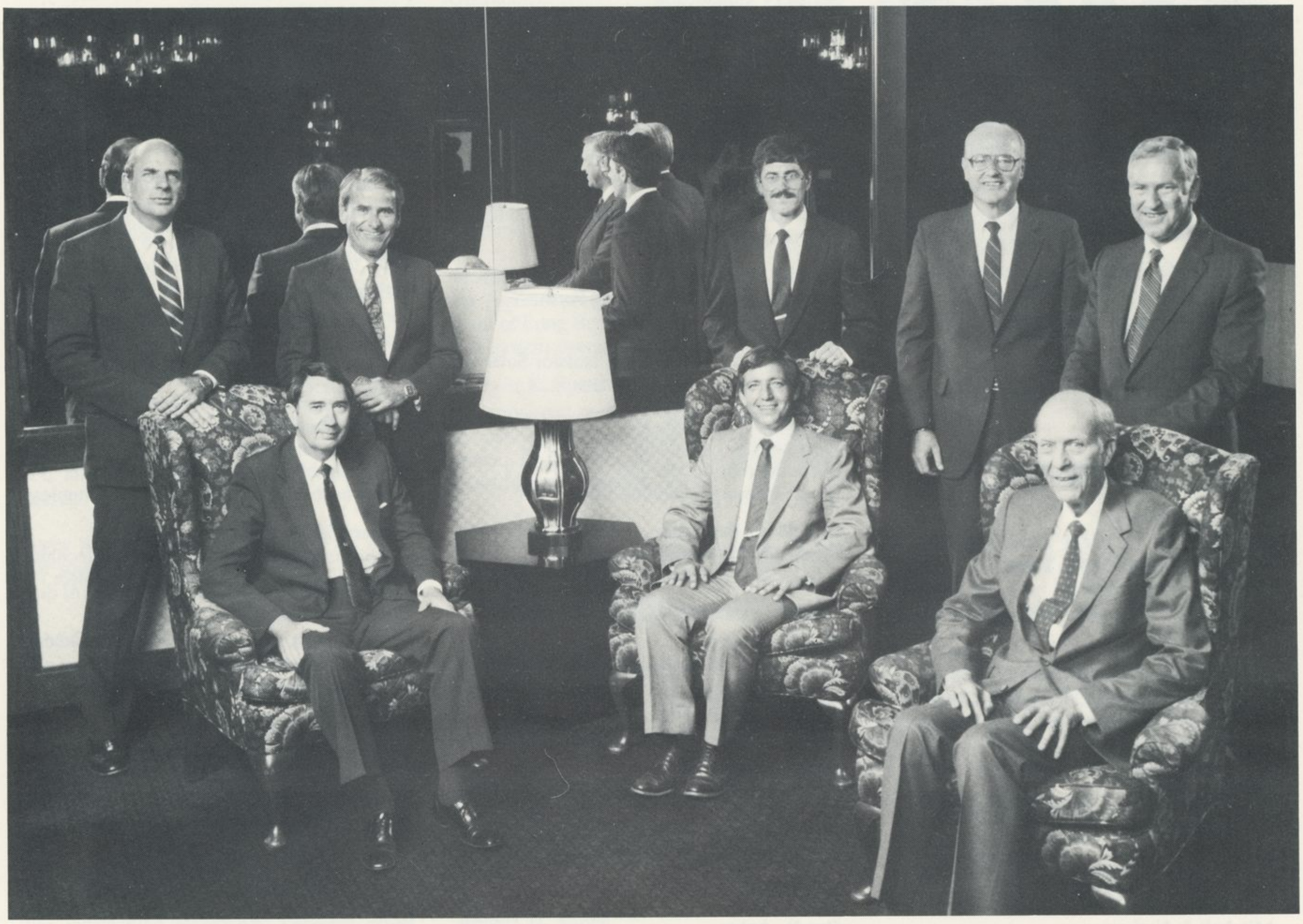

Presenting top honors are Norman R. Augustine, standing, far left, corporate president and chief operating officer; Caleb B. Hurtt, second from left, corporate senior vice president; and Peter B. Teets, standing, second from right, Denver Aerospace president. Top honors went to, left to right, seated, John P. Murphy, David G. Morgenthaler and Lyle Bergquist. Standing are Thomas Milligan, center, and Richard F. Broderick.

Company honors engineers, authors, inventors...

Special recognition at the Denver Aerospace Annual Awards Night banquet on June 7 went to 156 employees for outstanding contributions.

Of those, five were singled out for top honors.

Thomas A. Milligan, who supervises the antenna laboratory, was named author of the year for his text "Modern Antenna Design," published by McGraw Hill. Milligan designed the antenna feed for communicating with Magellan, and his work includes software analysis techniques for antenna systems that have assisted in winning contracts and providing data to Defense Systems.

Lyle E. Bergquist, senior staff engineer, Technical Operations, was named inventor of the year. His 18 inventions fall into two classes: to concentrate trace gases by selective pumping or removal of major constituent gases, and to fabricate leak-free metal seals.

Richard F. Broderick, manager of advanced systems within Defense Systems, was named investigator of the year. He is responsible for study contracts, advanced technology and IR&D activities leading to future systems. He was selected for his work on a classified project.

John P. Murphy, manager of the Vandenberg test flight program, has been named manager of the year for excellence in leadership and management skills. The award recognizes four successful Peacekeeper launches in 1985, managing integration of many associated Air Force contractors, and recognition from the the Air Force for superior performance.

David G. Morgenthaler, a computervision unit head and vision lead on the autonomous land vehicle (ALV) program, has been named engineer of the year. He developed the first rules for analyzing color images and setting an automated vehicle on a correct course.

1986 awards night honorees

Annual Awards Night

Publication Awards

Lyle E. Bergquist
A Helium Leak Detector for Small Components

Tibor Buna
The Development of the Flexible Louver

Brent A. Cullimore
Modeling of Transient Heat Pipe Effects Using a Generalized Thermal Analysis Program
Development of a High-Performance Evaporative Cold Plate

Bruce M. French and Hugh N. Zeiner
Performance Penalty Due to STS Launch Delay of Less Than One Hour for Interplanetary Missions

Roger T. Giellis
Development of a High-Performance Evaporative Cold Plate

Thomas A. Milligan
Modern Antenna Design

Mitchell J. Nathan
A Rule Bases System for Pattern Recognition That Exploits Topological Constraints

Stephen M. Pompea and Donald F. Shepard
Stray Light Rejection Performance of SIRTF: A Comparison

Stephen M. Pompea, Donald F. Shepard, and Kelly S. Williams
The Effects of Atomic Oxygen on Martin Black and Infrablack

Inventor Awards

David J. Banerian
Local Subnet Transmission Medium (LTM)

Lyle E. Bergquist
Small Component Helium Leak Detector
A Method to Increase the Sensitivity of a Leak Detector in the Probe Mode
Contamination Monitor
Measurement of Helium Hydrogen Ratio in Liquid Hydrogen Space Storage Tank Vent

Czeslaw Deminet
Ultrahigh Vacuum Bakeable Zinc Selenide Window Seal

Frank J. Despain
Contact Retention Testing on MIL-C-38999 Series IV Connectors
Referee Testing for Contact Height on MIL-C-38999 Series IV Connectors

Roger T. Giellis
High-Performance Evaporative Cold Plate
Direct Interfacing of Super Tab Geomod Finite Element Model Data to TRASYS

Patrick G. Hogue
Fiberoptics Stain Transducer for Composite Overwrapped Pressure Vessels

David J. Jaramillo
Device Solder Lead Dipping Form

Clark W. Johnson
Co-Cure in Place Electrical Isolator Solar Cell Substrate Material

William D. Nygren, Jr.
Piezoelectric Lubricator
Shape Memory Shear Pin
Shape Memory Retaining Ring

Harold A. Papazian
Production of Atomic Oxygen

New Technology Awards

Terence Coxall
Transmission Line Deployment Concept

Timothy D. Thames
Separation Nut Shock Isolation System

John M. Van Pelt
OMS Propellant Scavenging System

Technical Achievement Awards

Rex D. Agler
For outstanding technical leadership of an IR&D project for the development of ATP technologies applicable to SDI weapon system concepts.

Ernest Z. Anderson
For developing a solution to a critical trajectory design problem on the CELV program.

John E. Anderson
For outstanding performance in conducting a critical IR&D research project on the management of cryogenic fluids in space.

David M. Barnett
For outstanding contributions as a proposal team lead for CMPMAD and OSCRS, and technical lead for TOS and Small ICBM contracts.

Joseph T. Berger, Jr.
For outstanding technical performance in the successful redesign and development of communications link software.

Francis H. Bergonz
For consistent excellence in technical management on the OMV IR&D study project.

Douglas D. Berkner
For developing solutions to a highly complex problem on a key advanced technology development project.

R. Scott Bollinger
For significant contributions to a CELV design of a second-stage skirt to meet critical stiffness and strength requirements.

Garry L. Brauer
For outstanding accomplishments in redesigning software analysis tools and eliminating gross inefficiencies in the high-speed computer data link used for IIVV.

Terrence J. Breit
For outstanding technical performance and engineering support that led to successful activation and GST of many systems for the VAFB shuttle launch facility.

William R. Britton
For development of a precision pointing mechanism capability that established Denver Aerospace as the leader in this field of technology.

Richard F. Broderick
For outstanding performance in the technical management of a classified IR&D project.

Jean C. Cathcart
For technical support of the Peacekeeper FTM-11 launch that contributed to successful operational decisions.

Timothy H. Cole
For excellent performance of an exhaustive RF flight anomaly investigation, resulting in flight hardware integrity substantiation and subsequent flight performance confidence.

Philip C. Daley
For outstanding technical achievement in winning significant rapid prototyping software development contracts.

Lorne K. DeSize
For outstanding technical and management accomplishments on a classified IR&D project.

A. Darrell Devers
For technical excellence in the analysis of Peacekeeper missile nuclear hardness and an outstanding briefing to the Commander of the Air Force Ballistic Missile Office.

Glen J. Dickman
For outstanding contributions to and for the management of the OTV technology assessment IR&D study project.

J. Walter Faulconer
For outstanding technical contributions in conceptual and preliminary design of innovative launch techniques and systems.

Continued next page

Awards continued

Amy L. Flanagan
For outstanding technical leadership of a complex and difficult data development and integration task for Defense Systems.

John C. Flemming
For outstanding technical leadership in implementing a viable laser diode program for use in the laser communications link flight hardware.

Edward C. Fox
For superior technical design and leadership in the development of an oxygen/hydrogen propulsion design using water as the primary fuel source.

Nicolas S. Garcia
For dedication, professionalism, and leadership in coordinating and completing the test planning and procedure for a large-scale, complex system test.

William R. Gibson
For outstanding technical accomplishment in building a dynamic and viable maintainability section for Technical Operations Logistics.

James Gliozzi
For outstanding technical direction and management of the HMB IR&D project.

Frank H. Gradt
For outstanding technical logistics support to the Air Force Transportation Equipment Management group that led to his selection by the Air Force for the Outstanding Contractor Support Award.

Walter F. Habicht
For making substantial contributions to producibility through influencing the design process, and for training on producibility and trade studies and on drawing reviews.

Robert H. Hardin
For technical management excellence on a classified IR&D project.

E. Michael Henry
For development of a sound analytical approach for determining the effects of electrical changes on Peacekeeper missile stages.

James R. Hoagland
For leading the technical effort on the ITA program, a key to the completion of the first part of phase two of the program.

Gerald R. Hollenbeck
For outstanding technical contributions and innovative concepts for the SDI Architecture program.

George B. Hughes
For outstanding performance, personal efforts, and significant contributions to the integration of major subsystems into an offsite Special Programs test bed.

Robert A. Jaquess
For outstanding technical leadership in rebuilding the reliability discipline at Denver Aerospace, supporting major proposals, and evaluating the Titan 34D accident.

Fred W. Kleinknecht
For outstanding contributions in defining, planning, and executing simulations in preparation for the integration and test of an extremely complex, embedded computer system.

David M. Landis
For providing expertise in power systems design that resulted in Denver Aerospace becoming the voice of MSFC at the intercenter NASA interchange meetings, thereby strengthening our position for winning the Space Station WP-1, Common Module Phase C/D contract.

Maurice A. Larue, Jr.
For proactive technical leadership and outstanding systems integration contributions to the Space Station Phase B system definition program.

Gerald E. Mason
For outstanding effort in the technical direction of the Small ICBM test launcher and missile handling equipment product areas.

Roman J. Matherne, Jr.
For outstanding performance as manager of avionics for TOS.

David G. Morgenthaler
For development of a unique solution of vision data processing, permitting successful autonomous operation of the ALV.

Randall K. Munkres
For excellence and dedication in the development of an innovative and effective test program for Small ICBM PBV.

Steven C. Nance
For performance on payload support equipment integration on the Space Shuttle that helped to establish Denver Aerospace's leadership in that field.

David A. Nichols
For outstanding technical contributions to the surveillance, tracking, and pointing IR&D system study.

Joseph A. Noble
For technical leadership in the development and integration of a complex performance evaluation system for Defense Systems.

Frederic S. Nyland
For outstanding operations analysis supporting new-business objectives of Space Systems Advanced Programs.

Kenneth L. Parker
For outstanding technical contributions to Defense Systems in simulation development and software integration for a highly successful major ground systems integration and test.

Kenneth R. Payne
For development of constant force technology and innovation of a servo control valve for missile shock isolation.

Gregory J. Pech
For design, development, and qualification of lightweight composite helium tanks for Transtage, which met all performance and weight criteria.

Edward M. Phillips
For sustained excellent performance in the design, fabrication, and test of power components for Peacekeeper.

Mark K. Puryear
For development of unique analysis methodologies instrumental in improving the company's competitive posture in a new-business area.

Robert D. Rantschler
For outstanding technical contributions in the design and development of a unique space-based Strategic Defense System simulation model.

Ernest B. Ress
For preparing and winning a proposal to develop an atomic oxygen space simulator that is a key technology for our Space Station efforts.

Frank E. Roe
For outstanding technical achievement in developing the OMV full-scale maintainability mockup with high fidelity for use through the life of the program.

Edwin F. Scholz
For outstanding performance on an IR&D project that developed technology for the Small ICBM velocity control system capillary propellant tank.

Thomas F. Sealman
For outstanding achievements in leading the Defense Systems stress analysis, static test, fracture mechanics, and composites technology activities from CDR to successful hardware implementation.

Dale R. Shields
For technical excellence and significant contribution during the transition phase and assembly of the prototype communications link system.

Wayne E. Simon
For leadership in Denver onsite activities for the VAFB GSS issues relating to hydrogen dump during shutdown of the shuttle SSMEs during FRF.

Richard G. Sosnay
For outstanding performance in developing of Martin Marietta technical capability and commitment in the area of environmental control and life support systems for Space Station.

Jerry D. Stephenson
For outstanding technical performance while designing the Defense Systems EAGE.

John C. Stevens
For outstanding technical leadership and innovation in winning and performing Phase II of the SDI Architecture Study.

Lester M. Strong
For dedication, leadership, technical competence, and outstanding sustained performance on payload processing concepts for the shuttle program.

Continued next page

Dennis W. Tekavec
For technical excellence and innovations leading to significant contributions to the engineering cost/affordability analysis of the SDI Architecture Study.

Mark D. Thulson
For outstanding contributions in completing the design, formal qualification, and acceptance testing of a high-torque, precision control mechanism.

Donald F. Turner
For outstanding performance in the management and the execution of an IR&D project in advanced missile hardening that resulted in a significant contract award.

Richard W. Webb
For outstanding technical leadership in the Defense Systems structural subsystems test program.

Friedrich C. Werner
For technical leadership in performing design loads predictions for CELV element contractors.

Operational Performance Awards

Robert A. Baldridge
For exceptional management performance in developing the Peacekeeper support equipment/spares estimating team and pricing methodologies.

Jerome A. Ballantine
For outstanding performance as the Peacekeeper vehicle project engineer who has significantly supported the successful Peacekeeper flight program.

Kurt E. Bassett
For superior performance in the preparation and submittal of the winning Small ICBM proposal, and for outstanding personal efforts in obtaining new business in Strategic Systems advanced programs.

Leroy R. Bell
For outstanding accomplishment during negotiations and subsequent management of all Small ICBM subcontractors.

John H. Bitzer
For outstanding management, initiatives, and performance in achieving quality upgrades in small-medium size programs; and for developing, organizing, and reporting on the Spacecraft Systems productivity and product improvement program.

Stephen F. Blake
For continual, undaunted dedication to technical excellence, detail, and cost reduction during the design and manufacture of electronics hardware at Denver Aerospace.

Jacqueline K. Bowen
For leadership of the finance information systems tiger team assigned to transfer all Defense Systems finance source data from Artemis to the IBM 4361.

Fred W. Bristol
For personal efforts in the administrative, contractual and engineering aspects of a major subcontract that resulted in meeting of key program milestone dates.

Vicki F. Chleva
For outstanding contribution to business management in converting the Saudi Arabian PVPS contract to fixed price and establishing cost management disciplines for Denver Aerospace International Business Affairs.

Douglas A. Clark
For continuous dedication and performance in administering and maintaining the industrial hygiene program that resulted in an outstanding record and assurance for a healthy work environment.

Jimmy Cordova
For outstanding performance during the 1985 Space Systems audit program and as an interface for Product Assurance during a critical government audit of Denver Aerospace operations.

Robert I. Curts
For continued outstanding performance in the development and understanding of critical national security requirements that enabled Denver Aerospace to effectively support these requirements.

Paul L. Dalton
For sustained outstanding performance in the management of Defense Systems, product assurance, mission success, and parts and materials engineering.

Robert S. Dehn
For performance on a major new-business proposal tiger team, established in mid-1985 by Finance Estimating to assist in the planning, construction, and reproduction of major cost proposals.

Frank DiGiallonardo
For the development of a highly skilled and efficient Maintenance Services department.

Paul A. Diller
For outstanding leadership of the finance function at VAFB; specifically, for overhead administration, implementation of the CAPPS payroll system, installation of an improved labor accounting system, and enhanced financial reporting techniques.

Stephen J. Ducsai
For exceptional dedication and outstanding performance in the PBV/shroud project of the Small ICBM program.

Philip C. Fertitta
For exceptional dedication and outstanding performance in the Finance department of the Small ICBM program.

David L. Fields
For superior performance in subcontract cost management for a classified SSD project.

Paul A. Flaherty
For outstanding sustained performance, professionalism, and dedication in engineering administration for the Peacekeeper and SICBM programs.

Robert H. Fujiu
For superior leadership by successfully concluding the negotiations of a $130M major CELV procurement of payload fairings from the McDonnell Douglas Corporation.

John D. Garber
For outstanding contribution to the fabrication and test of the HML scale model program.

Theofanis G. Gavrilis
For outstanding leadership in developing the Advanced Technology organization and positioning Martin Marietta for hundreds of millions of dollars of classified Space Systems programs.

David F. Giere
For outstanding leadership in justifying the sole-source Titan II ELV contract award.

Robert A. Glover
For continued outstanding performance in the development of contract technical requirements/configuration and data management.

Kathleen C. Graydon
For sustained performance in hiring of all SBIs and systems engineers for Denver Aerospace.

William C. Green
For outstanding management of the Defense Systems forward body activities that lead to the successful completion of this very critical subsystem.

James E. Greichen
For successfully managing the studies, establishing the customer interfaces, and directing the proposal leading to our sole-source award as Titan II prime contractor.

James B. Griffin
For superior proposal management for KEW Phase I, which resulted in a significant competitive win.

James F. Hagan
For cost reduction efforts that have contributed significantly to Martin Marietta Corporation's successful performance.

Craig M. Hansen
For outstanding contribution to the successful outcome of the 1985 COR audit.

Judith A. Herb
For the development and implementation of proactive approaches to direct favorable public attention to the company's vigorous response to correcting its environmental problems.

Willard M. Hughen
For outstanding performance in the management of the fire detection and suppression system at the VAFB Shuttle Launch Facility.

Edmund F. Karkut
For sustained excellence in program security management for Defense Systems.

Continued next page

Awards continued

Stephen A. Mastin
For outstanding performance during the CELV preproposal and proposal phases in coordinating and issuing requests for proposals, and developing cost analysis for all major subcontracts.

Robert F. Mathews
For superior performance in contracting and contributions to building a unified team approach to all contracting tasks, and training and developing new contracting personnel.

William R. Mitchell
For establishing the new Software Center of Excellence and for outstanding operation of the central software laboratories.

Robert J. Molloy
For providing the initiative and leadership during the last two years to make Denver Aerospace a major factor in the Strategic Defense Initiative.

Arthur C. Morrissey
For skills in new-business strategy development and influence with the Legislative and Executive branches of the Federal Government, as well as our own internal organization, that led to our Titan 34D7 and Titan II awards.

Terry A. Murdock
For sustained excellence and superior leadership in the Peacekeeper flight test program.

John P. Murphy
For outstanding management of the VAFB flight test program, which resulted in four successful Peacekeeper launches in 1985, including the first two silo launches.

Michael L. Murphy
For performance instrumental in the implementation of the new CAPPS system at both the Denver and VAFB locations.

Lloyd P. Oldham
For outstanding leadership, personal effort, and continued significant contributions that supported the conceptual design of the Space Station common module.

Franklyn J. Paugh
For sustained performance, professionalism, and dedication in directing the Central Data Recording (CDR) function.

Donald L. Plomondon
For management of the Titan reassessment activity in surfacing specification, design, and operational discrepancies and implementing corrective actions.

Donna Gober Raynor
For outstanding performance as the IFSS Production proposal manager.

Charles T. Reynolds
For outstanding leadership of the SSB and SSN fabrication effort for Defense Systems, Titan, and Spacecraft Systems programs.

Mitchell B. Riley
For outstanding leadership and program development in Space Launch Systems advanced programs in 1985.

Philip L. Rogers
For excellence in leadership and technical management skills that resulted in substantial contributions to the proposal and contract status report processes for Production Operations.

Benjamin T. Rotruck
For 30 years of significant innovation and outstanding program support in the metrology area.

Valdino V. Ruybal
For technical, managerial, and leadership excellence that resulted in the readiness of all machine tooling.

Frank E. Shover
For superior performance during the establishment of Long Beach security and communication system operations and facility activation.

Marvin E. Spencer
For consistent quality excellence and cost performance in the machining of critically dimensioned flight hardware in the central Detail Manufacturing machine shop.

Ned I. Stephenson
For extraordinary contributions to major proposals such as Small ICBM and TPE, and his work on the COR audit.

John M. Stockham
For achievement as program manager for Facilities Engineering on two vital Martin Marietta programs: the Software Center of Excellence and ASAS.

Lloyd Thayne
For management of the ALV program, which successfully demonstrated the nation's first autonomous road-following algorithm in May 1985.

Robert D. Vaage
For outstanding technical contributions to the Small ICBM AT&SS/PBV proposal, which were a major factor in winning this contract in 1985.

Charles T. Vashus
For significant involvement and contribution in electrical and thermal development, and fabrication of harnesses and thermal blankets for a gimbal subsystem, aft body structure, and propulsion module.

Neil D. Velie
For outstanding performance in developing innovative methods for cost proposal management and leading major new-business proposals.

Herbert L. Watkins
For leadership in company activities for small businesses, small disadvantaged businesses, and minority and women-owned businesses that resulted in two highly acclaimed and coveted aerospace industry awards.

Robert G. Williams
For sustained dedicated performance in personnel management during a 30-year career.

Morris S. Worland
For sustained outstanding performance as installation chief during a 22-year period with the Titan I, II, III, 34D, CELV, GSS, and Peacekeeper programs.

Richard T. Yoshida
For leading the effort to evaluate and simplify software IV&V test approaches based on lessons learned, and achieving significant cost savings on the IIVV contract.

Arthur P. Young
For outstanding performance and superior dedication to Defense Systems in the area of Manufacturing Engineering preplanning, planning, tooling, and facility coordination.

Robert A. Zehnle
For outstanding contributions to the TOS Mars Observer proposal and subsequent award.

Awards Committees

Publications
Charles R. Class
Joseph P. Martin
Harold A. Papazian
W. Paul Rader
Raymond G. Ziehm

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James A. Sterhardt
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Richard E. Weber

Program
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Warren G. Beery
Edward F. Dash
Gareth D. Flora
Irma Jean Guire
William R. Usher
Richard E. Weber

Denver Aerospace exhibit reaches China

Martin Marietta was represented by an exhibit at the recent U.S. National Aerospace Exhibition in Beijing, China. The display features Denver Aerospace capabilities in space, including models of the Titan launch vehicles, manned maneuvering unit, and space station. A Chinese language version of the MMU video, "A Nice Flying Machine," was also shown. International and Denver Aerospace personnel explained the exhibit to attendees with help from interpreters.

Software development to assess space transportation needs

Martin Marietta Corporation will develop a computer software program to analyze the nation's future space transportation needs.

Called STEAM for Space Transportation Effectiveness Assessment Model, the software will be used by various government agencies to assess, analyze and define future space transportation architectures, including potential Strategic Defense Initiative (SDI) applications.

The $1-million contract, which will be performed by Denver Aerospace, will provide software for use in evaluating mission requirements. The resultant model output will be used to determine methods to satisfy those requirements. In addition, government agencies will be able to evaluate cost, schedule and technical impacts of new technologies on requirements to perform "what-if" analysis. The STEAM computer model also is envisioned as a valuable tool to aid in the analysis of SDI programs.

Michael J. Davis is program manager for STEAM, which is tied to the mission integration support contract (MISC). ■

Operational emplacer delivered

The first of six Peacekeeper emplacers to be used at operational missile silos has arrived at F.E. Warren Air Force Base in Cheyenne, Wyoming.

The 68-foot long, 88,000-pound semitrailer, known as a configuration item (CI) emplacer, is used to raise, lower and assemble missile segments during installation in the silo.

The equipment left Vandenberg Air Force Base, Calif., April 24, after completing a thorough review in procedure and hardware capabilities at a test silo. A ground test missile (GTM) was used the previous 2 months to complete the verification test.

An engineering model emplacer was used previously and will continue to be used at Vandenberg for the remainder of the 20 Peacekeeper test missiles.

Two Martin Marietta Peacekeeper engineers—Carl Brashear and Michael R. Gaughen—are serving as technical representatives, assisting the Air Force and Boeing at F.E. Warren to ensure proper operation of the equipment.

The emplacer was developed to accommodate the decision to base Peacekeeper missiles in modified minuteman silos. (The first eight test launches at Vandenberg were from an above ground launch pad.) Emplacers now do all of the prelaunch preparation that previously was done in the Missile Assembly Building at Vandenberg.

Emplacers are built, assembled and checked out by Martin Marietta. ■

Employees win $100 bonds

The employee award drawing for 27 $100 savings bonds on May 23 capped a successful campaign by Denver Aerospace employees. Overall, 12,258 Denver Aerospace employees enrolled in the U.S. Savings Bond Payroll Deduction Program—a participation of 91.4 percent.

Winners of the $100 savings bond drawing are Virginia M. Arida, Richard F. Busch, Ted J. Coston, Paul A. Crowell, Donald F. Dahl, Thomas D. Farwell, Irving Fox, Eugene F. Garcia, Bethany A. Jones-Fradelis, Janus H. Lowry, Steven J. Mahan, Andrew W. McGreal Jr., Robert A. Mulert, Robert C. Olson, Ruben J. Ortega, Eva M. Pass, Edward M. Phillips, Donna Gober Raynor, Melodie S. Reyes, Edward L. Rodriguez, Jay D. Russell, John C. Small, Robert G. Swope, Kristin J. Thompson, William K. Wall, Vivian D. West and Beth L. Worthington.

The percentage of participation in the bond program increased from 71 percent at the start of the campaign to 90.4 percent at its conclusion. A total of 10,241 local Denver Aerospace employees are now enrolled. Continuing their previous performance of past years, Canaveral Operations finished at 99 percent and Vandenberg Operations at 97 percent.

Employees who did not sign payroll deductions cards during the campaign may do so at anytime by contacting their department administrators. ■

Company pops concert scheduled for June 15

Broadway star Tommy Tune, the Manhattan Rhythm Kings and Newton Wayland conducting the Denver Symphony Pops Concert will appear June 15 at McNichols Arena.

Doors will open at 5:30 p.m. for the company-sponsored concert; the show begins at 6:30 p.m.

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Vandenberg Operations	Robert L. Ruck	2202

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