

April 27, 1988

Special Issue



Four employees received top honors at the recent Astronautics Group Annual Awards Night banquet. Recipients of the top honors are seated, left to right, Robert Johns, William Nygren, and Brent Cullimor. Paul Shattuck is standing far left.

Presenting awards at the evening's ceremonies were, standing, Norman R. Augustine, vice chairman and chief executive officer of the Corporation, center, and Peter B. Teets, president, Astronautics Group.

Martin Marietta Astronautics Group honors employees

Four employees were singled out for top honors and 157 employees received special recognition for their outstanding contributions to Martin Marietta at the Astronautics Group's Annual Awards Night banquet on April 22.

The four were Brent A. Cullimore, Paul L. Shattuck, William D. Nygren Jr., and Robert F. Johns.

Cullimore, a staff engineer in the Research and Technology section for Space Systems,

was named author of the year for his publication, "FLUINT: Generalized Fluid System Analysis with SINDA '85."

Shattuck, former program manager for the Rapid Retargeting and Precision Pointing Simulator (R2P2), was named engineer of the year for bringing the R2P2 simulator on line and for demonstrating it to President Reagan last November. Shattuck is now technology director, systems technology, Space Systems.

Nygren, principal investigator on Indepen-

dent Research and Development project "Smart Mechanisms," was named inventor of the year for his "Piezoelectric Ceramic Torque Motor; Shape Memory Shaft Locking Collar."

Johns, vice president of production and launch operations for Space Launch Systems, was named manager of the year for unsurpassed leadership in restoring Titan 34D launch vehicles to operational capability, capped by two successful launches in 1987.

1988 awards night honorees



Publication Awards

Jeffrey R. Carter, W. Sidney Cook, and Wayne E. Simon
A Pulse Driven Learning Network

Jimmie D. Chapel and Dale A. Lawrence
Stability Analysis for Alternating Force Schemes as Applied to Remote Space Teleoperation

Brent A. Cullimore
FLUINT: Generalized Fluid System Analysis with SINDA '85

Tony C. D. Knight
A Proposed Comet Nucleus Penetrator for the Comet Rendezvous Asteroid Flyby Mission

Frank M. Kustas, Mohan S. Misra, and W. Troy Tack
Nitrogen Implantation of Type 303 Stainless Steel Gears for Improved Wear/Fatigue Resistance

Inventor Awards

Philip G. Beer and Ronnie L. Campbell
Magellan Thermal Control Application Process (MATCAP)

Robert J. Fenolia and Donald F. Shepard
Boron Coating; Optically Black Cobalt Surface; Pliable Black Surface

Graham W. Flint
Infrared Scene Generator

William D. Nygren, Jr.
Piezoelectric Ceramic Torque Motor; Shape Memory Shaft Locking Collar

Harold A. Papazian
Ultraviolet Scene Generator; Novel Inlet for Mass Spectrometers; Method for Determining Air Quality on Space Station; Air Contamination Monitoring on Space Station

Wayne E. Simon
A Method for Production of Thixotropic Slush Hydrogen; Tornado Temperature Gauge

New Technology Awards

Eric E. Bachtell and Walter F. Thiemet
Direct Tieback Antenna Reflector

Philip G. Beer and Ronnie L. Campbell
Magellan Thermal Control Application Process (MATCAP)

Technical Achievement Awards

Jeffrey J. Bank
For outstanding technical achievements in conducting the design of Small ICBM test launcher hardware.

James R. Beall
For a technical approach to the Dale resistor problem that established a basis for guidance and resolution, resulting in a large savings of time and dollars to affected programs.

Jeffrey M. Becker
For technical excellence in the SSC Research and Technology department by developing artificial intelligence technologies that enable autonomous use of robotics in aerospace manufacturing, space servicing, and other applications.

Richard C. Behm
For outstanding management of Defense Systems' test engineering for Program E that led to the successful completion of procedures, logs, and test facility readiness in meeting major program milestones.

Robert L. Berry
For outstanding technical execution and post-data analysis of the modal test on the Magellan program.

Benjamin Bier
For leading Martin Marietta's participation in the Titan IV Centaur stage development through successful preliminary and critical design reviews.

Leo A. Bigelow
For leadership and dedication to the design excellence program that has produced a very low number of liaison calls per sheet of engineering.

Gene I. Bolen
For outstanding performance as facilities engineering project manager for replacing 50 PCB-contaminated transformers, initiating an upgrade of the 13.2-kV electrical power supply to the Space Park area, and modifying the existing 100,000-lb/hr boiler.

Larry Q. Bowers
For outstanding technical accomplishment in the development and integration of specialized computer codes for error prediction for Advanced Research Laboratories (ARL) measurements; and technical contribution in preparation of white papers and presentations that helped secure new business.

Michael R. Bright
For significant technical contribution to the ground validation concept that was a key element of the successful Zenith Star proposal.

Stephen E. Bugay
For leading the team of engineers that successfully designed and supported the build, delivery, and assembly of the first Titan II space launch vehicle (SLV).

Joseph R. Burkhart
For sustained outstanding performance and specific major contributions in 1987 in the development and implementation of system/operations integration.

William B. Collins
For outstanding achievement as the principal investigator on a major Defense Systems IR&D in support of new business acquisition.

Jeff A. Daneman
For excellence in developing the technical interface between Commercial Titan and domestic builders and operators of satellite systems.

Karyn S. Downs
For contributions on IR&D D-53D MI15 thermal protection material that has greatly enhanced our future competitiveness in the thermal protection field.

Daniel L. Elek
For outstanding contributions in restructuring a major test program within Defense Systems to compress the schedule without compromising requirements.

Abraham L. Freels
For providing technical support in researching long-standing Titan range waivers, coordinating the technical requirements with the range, and getting 13 waivers reclassified as compliant with safety requirements.

James E. Funk
For leading the definition of mission operations and database definition through technical knowledge in the areas of attitude control and orbital mechanics.

Glenn R. Gibson
For continued outstanding technical leadership in structural dynamics on the Small ICBM program that led to the successful resolution of critical loads issues and modal survey test preparations.

Douglas C. Gilbert

For an aggressive work approach that resulted in an unusually high and accurate output, and for creative contributions in performing several difficult tasks in the flight mechanics area.

John C. Grainger

For significant technical contribution to the KEW program through development of a quantitative method of evaluating the technical fidelity of the KEW experiment concepts.

Joel Hagan

For the design and technical supervision of the build, checkout, and operational performance of digital storage unit replacements for TDMG loop recorders.

William B. Heidemann

For outstanding technical contributions in identifying catastrophic failures and hazards associated with the space shuttle solid rocket booster and identifying the corrective actions required.

E. Michael Henry

For excellence in developing the Small ICBM lithium battery recovery plan, including the backup option using Peacekeeper batteries, and receiving BMO approval.

Jesse C. Huguley

For dedication and tenacity in developing acceptance test procedures and expeditiously resolving problems on the first Peacekeeper OT&E integrated truss assemblies.

Paula T. Jarding

For diligent oversight of all development changes to ensure physical hardware and drawing compatibility of the first Titan II SLV production vehicle.

Eric W. Johnson

For outstanding technical leadership and performance as the engineering lead for conducting payload feasibility studies under extremely demanding schedules for Commercial Titan, Inc.

Wilford J. Jones

For leadership and innovation in the identification of requirements and systems design for the Titan IV/IUS and Titan IV/NUS electrical systems.

Gerald L. Kelley

For consistent technical excellence and leadership in resolving numerous problems encountered during the Titan reassessment test program that led to the successful launches of 34D-8 and 34D-15.

Adrian A. Laffitte

For major contributions to technical excellence and progress on the modifications to SLC-4E at VAFB.

James W. Lowrie

For outstanding leadership and successful management of the Flight Telerobotic Servicer technical proposal preparation.

Thomas D. MacAvoy

For leadership and technical excellence in implementing the Titan reassessment test program for electrical components.

Wendel J. Maegley

For outstanding technical direction and engineering contribution to the analysis of Small ICBM structural and flight dynamics design requirements.

Betsy D. Marlowe

For outstanding planning, management, and technical assistance in the early radar integration test of Magellan.

Leland S. Marshall

For individually generating the tether procurement drawing, selecting the supplier, directing the supplier's technical efforts, helping resolve technical and production problems, and successfully completing qualification and acceptance tests of the unique, complex tether that will be used to physically restrain an Italian satellite to the TSS deployer.

Paul A. Mayer

For contributions to the development and testing of the RFTS hardware and software on the Peacekeeper OT&E program.

Ronald J. McGregor

For leadership and technical direction during the installation design, modification, and checkout phase of implementation of the Titan IV SLV program at VAFB that proved instrumental in the successful completion of the facilities and AGE installations.

James A. McKinnis

For personally leading the successful design, development, fabrication, and testing on the Small ICBM test launcher eject system.

William J. Meersman

For outstanding leadership of the TOS avionics activity, including innovative design solutions for key technical problems in the areas of mission guidance, control and sequencing.

John S. Mentler

For outstanding coordination of an all-encompassing series of integration tests that demonstrated the functional interfaces of major program segments within Defense Systems.

William D. Miller

For excellence in advancing the power systems technology for advanced, automated space systems.

Charles D. Mock

For outstanding technical contributions to design solutions for the Commercial Titan dual payload carrier concepts, and technical leadership and follow-through of the design team to provide effective and efficient designs.

Delbert A. Morris

For outstanding 1987 technical and management performance in Project Challenge assignments.

Joseph H. Navarra

For superior technical performance in identifying and resolving a number of generic hardware design and production issues for Defense Systems.

David A. Nichols

For an outstanding job in winning and managing three new contracts out of three proposal bids, and establishing outstanding management and technical relationships with the Army in Huntsville, LANL, LLNL, and SNLL.

John W. Phelps

For maintaining an efficient and highly effective systems organization on the Small ICBM IRSS program.

Robert J. Przekwas

For outstanding technical leadership that resolved numerous technical problems, clearing the way for successful launches on Titan 34D-15 and Titan 34D-8.

Roger M. Randall

For his outstanding technical performance on a launch system study.

Kenneth E. Richards, Jr.

For technical and management skills in advancing the state-of-the-art in passive and active damping techniques for structural control of space systems.

Wayne E. Sauve

For outstanding technical performance in problem solution and analysis of reassessment and recovery findings that returned Titan to full mission success status.

Paul L. Shattuck

For technical excellence and extraordinary leadership in bringing the R2P2 Simulator on line and for outstanding performance in the demonstration of this national test facility to President Reagan.

Elvis D. Simon

For technical excellence in providing Titan 34D program critical analysis support, enabling resolution of numerous problems.

Vladimir Spina

For implementation of an innovative, schedule-saving approach to Titan IV payload integration airloads analyses.

Ralph D. Steele

For successful completion of the final preliminary design release (FPDR) on the Small ICBM PBV/shroud that concluded the primary design phase, allowing Martin Marietta to proceed with flight vehicle fabrications, assembly, and test.

Gerard R. Steiner

For exceptional technical performance in developing surveillance concepts for the Space-Based Interceptor (SABIR) system and innovative sensor designs for the SABIR spacecraft.

Lyle J. Summers

For leading Special Projects scientists in such an outstanding technical effort that the first phase of a potentially competitive multimillion-dollar follow-on contract was awarded on a sole-source basis to Martin Marietta.

Larry J. Talafuse

For outstanding technical performance in the key area of the Solid Rocket Motor Upgrade (SRMU) contract award.

Gary S. Thomas

For continued technical and professional expertise in assisting with the creation of an extremely valuable information and CAD/CAM system for both present and future use in cost-effective manufacturing.

E. Dale Thompson

For significant technical contributions in the propulsion and mechanical areas that enabled the Titan family of launch vehicles to achieve 100% mission success in 1987.

Brett F. Tobey

For significant technical contributions in developing an innovative vehicle structural configuration for a program that resulted in the program receiving a high award fee.

Kathryn G. Tobey

For outstanding technical and analytical contributions to solving complex technology problems.

Randall N. Torkelson

For technical excellence in innovations that led to the standardization and modernization of weather data communication links between Western Space and Missile Center (WSMC) and Eastern Space and Missile Center (ESMC) range facilities and user agencies, and the conception and design of the Titan IV day-of-launch winds monitoring system.

William R. Treadaway

For providing outstanding technical support to the customer and management for major problem coordination, resolution, unverified failure reviews, and independent readiness reviews on Defense Systems.

James C. Tuttle

For technical excellence in achieving a significant software transition with the Special Programs test system.

C. Keith Wanklyn

For technical excellence in engineering support of factory production activities that contributed to the successful January 11, 1988 rollout of the first Titan IV core vehicle.

O. Decker Westerberg

For demonstrating outstanding technical leadership in defining mission design solutions and launch system performance requirements related to current program activities and future initiatives.

Henry A. Williams

For leading all Denver engineering support of the propellant loading, load verification, margin monitoring, and tank pressure monitoring during the prelaunch activity for Titan 34D-15 and 34D-8.

Delbert W. Wilson

For technical leadership and management of Small ICBM IRSS SE development.

Operational Performance Awards

Donna J. Anderson

For outstanding security support in the supervising of special background investigation (SBI) clearance packages for Astronautics Group and I&CS programs.

Dennis E. Averyt

For outstanding performance in developing and initiating a new program for LA operations.

Charles O. Bennett

For contributions to Martin Marietta Astronautics Group in the form of original illustrations and paintings of exceptional quality.

Paul J. Bennett

For outstanding direction in the Astronautics Group performance measurement function, achieving an unprecedented level of overall system effectiveness. This was instrumental in a 100% mission success rate for government reviews.

Santo B. Bertuzzi

For providing the initiative, innovative leadership, and management of a major productivity initiative—Project Challenge.

John L. Best

For successfully establishing and managing working relationships with the INTELSAT and Hughes organizations that led to Commercial Titan contracts exceeding \$250 million.

James B. Blackwell

For outstanding contributions to the Advanced Programs division of the Space Launch Systems Company.

Charles E. Bond

For outstanding management of the Peacekeeper instrumentation and flight safety system, and for work in developing and negotiating Peacekeeper follow-on contracts.

Timothy B. Brenner

For sustained outstanding performance, which has made a significant contribution to the sales success of the Astronautics Group and the creation of a favorable company image.

Virginia L. Brewer

For consistently producing appetizing desserts that have enhanced the reputation of the Food and Vending Service department. Her positive teamwork in assisting food service operations in providing daily fresh merchandise to our employees and guests is most noteworthy.

David R. Brown

For dedication and resourcefulness exhibited during the procurement cycle of the Titan IV Solid Rocket Motor Upgrade (SRMU) program.

Kenneth L. Brumbaugh

For outstanding professional dedication and support to program security functions within Defense Systems.

Jasper Bryant, Jr.

For outstanding performance in the definition and implementation of security procedures for critical onsite and offsite activities.

Donna J. Campbell

For continuous outstanding performance in the area of department administration and management of overhead budgets for the Finance organization.

Roger A. Chamberlain

For exceptional performance and leadership in managing Commercial Titan's competitive penetration of the launch service marketplace and formally acquiring commercial launch orders exceeding \$300 million in 1987.

Paul A. Christensen

For exemplary leadership in developing and defining a \$2 billion Titan IV restructure proposal.

Glenn E. Cleveland

For outstanding achievement in the management of corrective actions on airborne hardware failures and other critical issues during Peacekeeper flight operations that significantly contributed to the Peacekeeper Mission Success performance.

Allison E. Coulter

For exemplary job performance as the Astronautics Group senior paralegal that involved a large variety of disciplines within the organization leading to thorough resolution of issues.

Ronald W. Cridlebaugh

For outstanding performance in managing all second-shift maintenance operations at the Denver Astronautics Group facilities.

M. Sher Cunningham

For sustained outstanding performance as Executive Secretary to the President of the Astronautics Group.

Michael J. Davis

For successfully establishing and managing working relationships with numerous European builders and operators of satellite systems that led to Commercial Titan orders of approximately \$50 million.

Phillip L. DeArment

For contributing significantly to the final negotiation of the Air Force Commercialization Agreement that was signed by Martin Marietta Corporation and the Air Force.

Douglas R. Dilts

For successful development and presentation of independent parametric models for selected Defense Systems and SDI programs customers.

Joe R. Donathan

For superior program management of the Small ICBM system support contract that resulted in award fees of 90% and 96.6% during 1987.

Ron F. Drobnik

For leadership of the CAE/CAD/CAM work on Project Challenge that resulted in demonstrated reductions of 30% in manpower, 50% in schedule time, and a minimum of 30% in improvement to quality.

John F. Dwyer

For leadership in establishing a technology training program that resulted in a successful implementation and certification activity that trained people in all Project Challenge initiatives.

John D. Eagen

For superior management of the Small ICBM PBV/shroud program that culminated in 100% successful development tests, including two AEDC full-scale hot firings.

Eckhard (Ed) A. Echt

For sustained outstanding performance in software development, testing, and management techniques for the Titan IV system.

Richard L. Egeland

For sustained superior performance, dedication, and professionalism for Defense Systems product area estimating activities.

Beverly K. Egger

For outstanding leadership and achievement in the Space Systems Company and Martin Marietta Astronautics Group succession planning process, and significant contribution to Space Systems Company Human Resources development programs.

William C. Eith

For outstanding leadership of electronics manufacturing fabrication for a Defense Systems program.

Alex Esparza

For outstanding and lasting work in the improvement of faster and easier machining techniques in both the grind area and other detail fabrication areas.

Lonnie L. Farmer

For continuing excellence in engineering design, development tests, and production of the Titan IV payload fairing.

John M. Fasciani

For outstanding leadership in the development and implementation of standards for operating the Astronautics Group cost analysis function.

Edgar D. Fox

For leading production operations in an outstanding effort to meet Titan II and Titan IV rollout dates.

Michael A. Freed

For sustained outstanding performance in contracts management for the Peacekeeper program and Strategic Systems.

James C. Fusselman

For distinctive service on program test tool design requirements and the testing needs function.

Jerry J. Gallentine

For sustained outstanding performance in conducting the Special Programs offsite operations.

Geoffrey W. Garner

For outstanding performance in capital planning and implementation in 1987: a \$4.7-million capital equipment acquisition for manufacturing productivity enhancement and a \$5-million EMF III construction approval.

J. Frank Garred

For outstanding leadership in developing an extremely large and complex proposal for Defense Systems and successfully negotiating a resulting contract.

Leon J. Ginsberg

For leading the effort to develop and coordinate the contract and launch reservation approach successfully used by Commercial Titan, Inc.

Ronald C. Glynn

For outstanding contribution to the business management of the unique and challenging combination of TOS government and commercial contracts.

Andrew J. Hall

For outstanding leadership as manager of test operations for Strategic Systems' flight test, and superior performance during the Minuteman III reliability study.

John C. Harris

For outstanding leadership demonstrated during the activation of Titan IV CCAFS Pad 41, which was within all required business and technical parameters.

Sarah B. Haverkamp

For sustained performance, outstanding professionalism, and dedication that has contributed to the success of the Product Assurance organization.

Linda G. Hendrick

For outstanding management of Titan 34D contracts group for the Titan 34D Reassessment/Environmental Upgrade program.

Bette F. Henson

For exceptional performance in managing cash receipts and payments that resulted in a significant benefit to the Company's investment earnings.

Donald E. Hobbs

For outstanding contributions in concept development and implementation of an improved subcontract/materiel management organization in the Martin Marietta Astronautics Group and Space Systems Company.

Teddie W. Housley

For sustained outstanding performance in the conduct of Plant Protection supervisory duties, and providing significant security support for numerous VIP visits.

Roger A. Jacobson

For special recognition of his outstanding leadership during the receipt-through-launcher activities for Titan 34B51 and 34D15 at VAFB.

Robert F. Johns

For unsurpassed leadership, unflinching determination, and outstanding management skill in restoring Titan 34D launch vehicles to an operational capability that was validated with the two successful launches of Titan 34D in 1987.

Dean C. Jones

For outstanding performance as manager of system safety for Titan II SLV.

Paul J. Jones

For engineering and production efforts leading to the delivery of the first Titan IV core vehicle to the launch site.

Joseph T. Keeley

For securing a significant role for Martin Marietta in the country's national aerospace-plane initiative.

Michael R. Lane

For outstanding performance, professionalism, and dedication in directing the engineering and operations efforts at RAL, including test preparations, readiness, followthrough, and turnaround time.

Marilee Littlefield

For outstanding performance in Space Launch Systems finance activities during the crucial startup activities for the Commercial Titan venture.

Gerald E. Mason

For providing outstanding technical leadership and project management on Small ICBM from contract award to hardware delivery.

Claudia F. Mathis

For outstanding performance in the development and supervision of the Materiel internal audit function.

Robert J. Molloy

For his persistent vision and outstanding leadership that resulted in the winning of the Zenith Star Program, the largest ever space-based laser optics experiment for SDI; and being a major catalyst in bringing President Reagan to the Astronautics Group to report on SDI program progress to the American people.

Sherman J. Montover

For outstanding leadership in developing and implementing the IFSS production plan, and continuing work to improve productivity that resulted in a doubling of performance in IFSS fabrication and test, and a cost reduction of \$2.5 million.

Charles D. Moore

For distinguished engineering and management for system safety on the Peacekeeper program, and as manager of System Safety for the Astronautics Group.

Arthur C. Morrissey

For sustained outstanding performance in the acquisition of new business that resulted in more than \$2.2 billion in new orders for the Space Launch Systems Company in 1987.

Donald D. Mullins

For outstanding support of GEPS during the first build of Small ICBM ground support equipment, which resulted in quality hardware delivered ahead of VAFB need dates.

Ronald B. Murphy

For distinguished service on the successful, on-time completion of two Small ICBM canister assembly launch test program launches, and outstanding ability to manage complex test programs and achieve outstanding results.

Larry A. Myers

For outstanding dedication, professionalism, and leadership in managing the Space Systems Company facilities operation.

Kimberly Nixon

For outstanding personal dedication, initiative, and performance in the simplification and addition of value to engineering administration functions of the Engineering Development Laboratories.

Paul F. Nordberg

For outstanding leadership in managing the logistics, coordination, and security for the Presidential visit on November 24, 1987.

Gary W. Oertli

For the development of a highly professional and effective administrative and support organization within the Facilities Maintenance Department.

James L. Parham

For outstanding performance in the negotiation and implementation of subcontract actions for the payload fairing and payload carrier assemblies for the Commercial Titan launch vehicle.

John E. Parker

For outstanding technical management and leadership as the IFSS project production manager, resulting in successful IFSS schedule and cost performance, and several valuable productivity improvements in IFSS equipment.

John L. Pauly

For contributions to the implementation of the MRP-II system on the Small ICBM program and the EMF facility in 7 months, an accomplishment never achieved by any other company.

Timothy D. Piller

For exemplary accomplishments in the cost/schedule control system, and outstanding knowledge of the Performance Measurement System.

Joel S. Porter

For outstanding achievement in coming from a trailing position to a current leader on Program 716.

Carl L. Preuss

For sustained superior performance in the development and leadership of a planning organization that is recognized as outstanding by both the Company and the customer.

James M. Ritz

For truly outstanding work as manager of the Electronic Manufacturing Facility (EMF), which is responsible for the fabrication and test of deliverable electronics hardware for all Denver programs.

Vincent J. Salvo

For outstanding operational performance for small programs, and contributions in training new quality engineers that have greatly contributed to the success of the quality section.

Tom Y. Sawyer

For outstanding performance in the development, implementation, and management of computer systems in Space Launch Systems.

Dennis G. Scharp

For developing and executing an outstanding software quality assurance system on Defense Systems.

Thelma B. Schmidt

For sustained, superior performance, dedication, and professionalism in support of Defense Systems' product area finance activities.

Roy Sedgwick

For outstanding and creative management of SRM contracts with CSD since the conception of Titan IV.

Thomas C. Shupert

For establishment of a technical excellence program on the Commercial Titan project.

Robert M. Smiley

For outstanding dedication and contributions to the quality effort on the second-floor factory that earned recognition by the company and the customer.

Eunice D. Smith

For demonstrating outstanding performance in administering the Voice Message Exchange System and training users on the system.

Bonnie F. Snodgrass

For exceptional performance as program manager for the design, construction, and outfitting of the new 37,000-square-foot facility in Sunnyvale, California.

Winston Sparks

For managing the IIVV project through two difficult years after the Challenger accident, maintaining a strong technical team, obtaining significant new work, and maintaining award fees consistently rated in the highest category.

Thomas P. Stockham

For extraordinary performance in assuring a successful Strategic Systems consolidation move, enabling 1400 employees to be placed in professional office space at the Denver Systems Center.

Richard W. VandeKoppel

For outstanding leadership in the KEW program that resulted in winning the SABIR SCIT Program.

R. Kevin Welch

For superior performance in business development for Strategic Systems Advanced Programs that led to opportunities for major new procurements.

Alfred C. Wright

For identifying and winning all four opportunities that his Advanced Programs Group bid in 1987 and his role in the Flight Telemetry Servicer win.

Harrison C. Wroton

For initiation and management of a successful engineering excellence program.

Special Operational Performance Awards

Irma Jean Guire

For sustained outstanding performance in the field of customer relations for the past 8 years that resulted in recognition of Martin Marietta Corporation as one of the very finest organizations in the nation in responsiveness and cooperation.

Patrick H. Corkery

For outstanding photographic work for company public relations and marketing efforts, including continuing excellent photography for the Corporate Annual Report as well as many other publications.