

SAN FERNANDO VALLEY ENGINEERS' COUNCIL
San Fernando Valley, California

38th Anniversary

1993

**HONOR AWARDS GALA
BANQUET
SOUVENIR PROGRAM**

Daniel Goldin
NASA Administrator
NASA Headquarters
Washington, D.C.



**DISTINGUISHED
KEYNOTE
SPEAKER**



In Celebration of
National Engineers Week

Saturday, February 27, 1993

*A message from the
President of the United States*

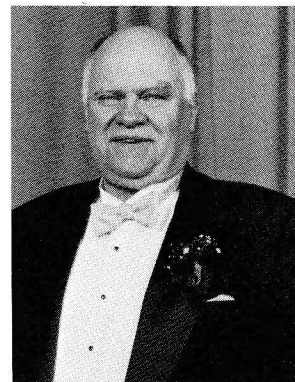
National Engineers Week
February 14 - 20, 1993

Engineers have always been major contributors to our nation's prosperity and quality of life. Now, as our country embarks in a new direction, engineers will be key players in finding solutions to many of our challenges ahead. From environmental cleanup to international competitiveness, from rebuilding our infrastructure to assuring a reliable energy supply, it is engineers who'll be called upon for the creativity to move our country ahead.

It is fitting that you mark your annual observance with visits to our nation's classrooms to inspire the leaders and workers of tomorrow with the wonders and opportunities of technology. A technically literate workforce is essential to our future success.

I am pleased to join all Americans in saluting our nation's engineers during National Engineers Week. I look forward to the opportunity of working with you to ensure a bright future for our nation.

Bill Clinton



San Fernando Valley Engineers' Council
President's Message

Lloyd W. Higginbotham

Tonight, we honor the achievements of engineers who, despite many past cyclical and dire predictions, stand as beacons of encouragement for all wishing to pursue studies of the art and science of engineering.

It has often been said, "Choose another field of study; there is no future in engineering." In considering this prediction, I urge you to review a bit of the history of contradictory predictions regarding the future of science itself.

Many of the referenced dire predictions were made years ago by such renowned scientists as Francis Bacon (early 17th century); Harvard University physics department chair, Professor John Trowbridge (1843-1923); Nobel Prize winner Max Born (1928); University of California at Berkley Professor Gunther Stent, (1970); and Nicholas Rescher in his 1978 book *Scientific Progress*.

Professor Stent concluded in his 1978 book *Paradoxes of Progress*, "...that some scientific fields are bounded; that there is an ultimate limit to the principles and processes involved in each." Stent wrote, "Though progress has occurred in the past, its accelerating kinetics precludes it from being an everlasting feature of human history in the future."

Quoting University of Washington's Dael Wolfle, "If we are correct in believing that the physical world acts in accordance with a rather small number of fundamental principles, laws, or equations, and if we continue our diligent search, would it not be reasonable to expect that we will, perhaps in the lifetime of some of us in this room tonight, complete the search for new principles of all sciences?" I think not.

A favorite view is that continuing scientific progress lies behind the fairly frequent statement that the solution of one scientific problem usually raises two or three new questions to study. Shall we all rally behind this view?

Do we accept the theory that there is no future in engineering? Or do we encourage students to diligently pursue studies of the arts and sciences that will open exciting new vistas for the application of these learned skills, igniting sparks of engineering creativity to be fanned into flames of ingenuity?

In 1968, former President Carter's Assistant for National Security Affairs, Zbigniew Brzezinski, wrote of so much confidence in the future of science and technology that he expected our future needs and wishes would be fulfilled with very little human labor. He predicted that most people will be destined for lives of idleness, and only the most capable people will be permitted to work. Of course, that means that all of you here tonight can look forward to continued employment, but Brzezinski expects most of your neighbors to lead lives of leisure, perhaps kept amused by spectacles you will arrange.

Historical inaccuracies of respected prognosticators must be associated with today's specious forecasts for engineering careers. We must convince students, at a very early age, to vigorously pursue the study of the exciting art and science of engineering, become a member of the future privileged few, find their proper niche (academic, research, or practitioner), and amuse the idle majority with fantastic spectacles of their creation, as did Nikola Tesla, and avoid becoming a segment of the bored idle majority. But please caution the prospective engineer or scientist, "Do not repeat the errors of Tesla." Encourage them to keep copious notes of all successes and failures.

San Fernando Valley Engineers' Council

A Brief History

Founded in 1955 through the joint efforts of the California Society of Professional Engineers, the American Institute of Plant Engineers, the Society of Manufacturing Engineers and the Institute of Electrical and Electronic Engineers, the San Fernando Valley Engineers' Council has celebrated National Engineers Week, a national week of recognition since 1950.

Over the past several years, the Council's activities grew from a joint meeting of these societies to what has grown into today's annual awards banquet. These banquets honor deserving professionals whose accomplishments warrant recognition by their peers.

The 1959 banquet was special. The first Engineer of the Year Award was given to Roy E. Marquardt, one of the most respected engineers in the San Fernando Valley. His accomplishments and technical innovations became a benchmark to measure all future candidates for this most prestigious honor.

The next milestone for the Council was in 1970 when the first Honorary Engineer of the Year, William Lear, was selected. Over the past 20 years, a host of nationally known engineers has proudly received this award.

The Peter Recchia Omni Award was added to the list of major awards in 1973. This award is named for Mr. Peter Recchia, a great supporter of engineering in our community and designer of the first award. This trophy is given annually to the Engineer of the Year.

In 1987, General Charles E. (Chuck) Yeager was the first recipient of the "General Charles E. (Chuck) Yeager International Distinguished Aeronautical Achievements Award". This award is given periodically, with General Yeager's approval, to aeronautical engineers who work on a global level.

In 1990 the Council presented the "William B. Johnson International Interprofessional Founders Award" to George J. Hallinan from Rocketdyne Div., Rockwell International.

In February 1993 Lockheed Advanced Development Company granted privilege to use both service marks "Skunk Works" and the stylized "Skunk" in our award. The privilege may be granted annually at the discretion of the Lockheed Patent Counsel.

Through the years, the San Fernando Valley Engineers' Council has presented over 700 awards that recognize outstanding contributions by individuals in our community and throughout the world in the fields of engineering, education, special fields of work and public service.

SAN FERNANDO VALLEY ENGINEERS' COUNCIL
San Fernando Valley, California

38th Anniversary
HONOR AWARDS GALA BANQUET

Saturday, February 27, 1993

Social Hour – 6 p.m.

Welcome – 7:45 p.m.

Lloyd W. Higginbotham, FIAE
Defense Logistics Agency, USAF/DPRO
Higginbotham Associates
President, San Fernando Valley Engineers' Council

Salute to the Flag

Dinner

Introductions

Lloyd W. Higginbotham, FIAE

Keynote Address

Daniel Goldin
NASA Administrator
NASA Headquarters
Washington, D.C.

Presentation of Awards

Lloyd W. Higginbotham, FIAE

Merit Awards

Tim Hanneman, FIAE

Special Awards

Drew Froelich

Closing Remarks

Lloyd Higginbotham, FIAE

1993 AWARDS AND PRESENTATIONS

Special Presentation

William B. Johnson International Interprofessional Founders Memorial Award

— by —

Lloyd W. Higginbotham, FIAE
Defense Logistics Agency, U.S. Air Force, DPRO
Northrop Corporation, Hawthorne, California
President, San Fernando Valley Engineers' Council

— to —

Roland V. Roggero, FIAE
Director Facilities Management
Westlake Medical Center
Westlake Village, California
Past-President, San Fernando Valley Engineers' Council

William B. Johnson International Interprofessional Founders Memorial Award

In 1955 Bill Johnson was one of the founding fathers of the San Fernando Valley Engineers' Council. Bill had an untiring commitment to form and build the Council into a unified and effective body represented by all facets of the engineering and scientific community. His standards and professional aura were to emulate perfection and elegance.

He was laying the groundwork for the younger generation to participate and enjoy the future in leading and influencing the developing international engineering community. Bill was considered the backbone of the Council. He chose giving recognition to outstanding persons as a means of providing a model of excellence.

The William B. Johnson International Interprofessional Founders Memorial Award was established by the San Fernando Valley Engineers' Council to perpetuate the image and memories of Bill - his leadership, methods, fortitude, standards, efforts, and achievements with compassion for others while focusing on bettering the engineering community.

Selection of recipients for the memorial award reflect his image.

Past Recipients

First presentation was to William B. Johnson in 1982

No further presentations were made until 1990.

George J. Hallinan
1990

Dr. John J. Guarrera
1991

Lloyd W. Higginbotham
1992

OUTSTANDING ENGINEERING ACHIEVEMENTS MERIT AWARDS - 1993

PRESENTED IN ALPHABETICAL ORDER

DR. WILLIAM J. BELLOWS, MEMBER OF TECHNICAL STAFF
TOTAL QUALITY MANAGEMENT OFFICE
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS IN TAGUCHI METHODS DEVELOPMENT IN AN AEROSPACE ENVIRONMENT AND INTEGRATION OF A NEW POWERFUL ENGINEERING METHOD ACROSS A BROAD SPECTRUM OF ENGINEERING APPLICATIONS"

LORIN E. BLEWETT, SUPPORT TEAM MANAGER
SPACE SHUTTLE MAIN ENGINE DEVELOPMENT
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS IN THE DEVELOPMENT OF LIQUID ROCKET ENGINES"

ANTONIO BUENDIA, TEST ENGINEER, ENGINEERING DEVELOPMENT LAB
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS IN PRESSURE TESTING, SSME WHIRLIGIG TESTING AND ITS EFFECT OF TURBINE BLADE DAMPING, SPACE STATION TESTING AND SSME BALANCE TESTING IN THE EDL"

WALDON R. BURR, PRESIDENT
W. R. BURR CONSULTANT INC.
WOODLAND HILLS, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING CONTRIBUTIONS TO THE ENGINEERING PROFESSION IN THE FIELDS OF ELECTRONICS, MANUFACTURING, CONTROL SYSTEM DESIGN, QUALITY CONTROL AND PROJECT MANAGEMENT"

MARGARET M. CLARKE, PH.D., PROJECT MANAGER OF ROBOTICS
SPACE SYSTEMS DIV., ROCKWELL INTERNATIONAL
DOWNEY, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ACHIEVEMENTS IN THE FIELD OF ROBOTICS, MARKETING OF ROBOTICS CAPABILITIES, AND BEING INSTRUMENTAL IN THE FORMATION OF A MULTIDISCIPLINED ROBOTICS PRODUCT DEVELOPMENT TEAM PURSUING BOTH CONTRACT AND R&D FOR ROCKWELL/NASA."

VICTOR COHEN, P.E., DOCUMENTATION CONTROL MANAGER
TRW TECHNAR, RESEARCH AND DEVELOPMENT BUILDING
IRWINDALE, CALIFORNIA

"RECOGNIZED FOR SIGNIFICANT CONTRIBUTION TO THE ENGINEERING PROFESSION AS PRESIDENT OF THE SANTA MONICA CHAPTER OF THE CALIFORNIA SOCIETY OF PROFESSIONAL ENGINEERS"

EDWARD J. DITATA, LEAD ENGINEER FOR "TRUCKSAR"
NORTHROP B-2 DIVISION
PICO RIVERA, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE DEVELOPMENT OF A UNIQUE STATE-OF-THE-ART IMAGING INSTRUMENTATION RADAR AND A COMPLEX AVIONICS SYSTEM"

DANIEL FRANK DOMINIK, SENIOR ENGINEER SPECIALIST
SPACE SYSTEMS DIV., ROCKWELL INTERNATIONAL
DOWNEY, CALIFORNIA

"RECOGNIZED FOR DISTINGUISHED ENGINEERING CONTRIBUTIONS TO THE DEVELOPMENT OF A SPACE SHUTTLE COMPUTATIONAL FLUID DYNAMICS ASYMMETRIC MODEL CAPABLE OF DEFINING FLOW FIELDS AT ANY FLIGHT CONDITION"

RICHARD MICHAEL EHRET, MANAGER OF MATERIALS AND PROCESSES
SPACE SYSTEMS DIV., ROCKWELL INTERNATIONAL
DOWNEY, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING CONTRIBUTION IN THE FIELD OF MATERIALS ENGINEERING BY PROBLEM RESOLUTION THROUGH FAILURE ANALYSIS TO SUPPORT SEVERAL CRITICAL SPACE SHUTTLE FLIGHT SCHEDULES"

LYMAN M. EVANS, VICE PRESIDENT ADVANCED PROGRAMS
LOCKHEED SKUNK WORKS
PALMDALE, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS AND TECHNICAL LEADERSHIP IN THE DESIGN OF ADVANCED MILITARY AIRCRAFT AND SYSTEMS"

JON D. FRANSEN, PROJECT MANAGER SPACE SHUTTLE MAIN ENGINE
MATERIALS, ENGINEERING AND TECHNOLOGY
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE DEVELOPMENT OF SPECIAL MATERIALS, PROCESSES AND EVALUATIONS FOR ALL THE SSME PROGRAMS"

BRYAN FREEMAN, DIRECTOR OF PRODUCT ENGINEERING
MENASCO AEROSYSTEMS, DIV. OF COLTEC INDUSTRIES
AGOURA HILLS, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING CONTRIBUTIONS TO THE ENGINEERING COMMUNITY IN INDUSTRY AND PROCESSING IN THE FIELD OF AIRCRAFT AND AEROSPACE LANDING GEAR"

NABIL (BILL) GOBRIAL, AIR QUALITY ENGINEER
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
DIAMOND BAR, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING CONTRIBUTIONS TO THE ADVANCEMENT OF THE ENGINEERING
PROFESSION, AND BEING FOR THE LAST TEN YEARS A MEMBER OF THE CLEAN AIR ACT TEAM"

YAACOV GOLAND, PROJECT MANAGER ASAT MISSILE
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO
DIVERSIFIED PRODUCTS AND SYSTEM INTEGRATION IN NATIONAL PROGRAMS
INCLUDING SPACE STATION FREEDOM AND THE US ARMY ANTI-SATELLITE
SYSTEM (ASAT)"

ROBERT C. GOETZ, VICE PRESIDENT OF ENGINEERING
LOCKHEED SKUNK WORKS
PALMDALE, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS AND TECHNICAL LEADERSHIP
IN THE DEVELOPMENT OF ADVANCED AERONAUTICAL TECHNOLOGY"

JOHN A. GRIFFITH, CAD/CAM/CAE PROGRAM INTERFACE ENGINEER
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO DEVELOPING
STRATEGIES/PLANNING, IDENTIFYING/IMPLEMENTING NEW CAD/CAM/CAE PROGRAMS
IN TECHNOLOGIES AND APPROACHES ENHANCING DIVISIONAL PRODUCTIVITY"

ROBERT GRILL, PRESIDENT
MENASCO AEROSYSTEMS, DIV. OF COLTEC INDUSTRIES
AGOURA HILLS, CALIFORNIA

"RECOGNIZED FOR DISTINGUISHED CONTRIBUTIONS TO INDUSTRY AND THE COMMUNITY
BY HIS LEADERSHIP, CREATIVITY AND MANAGEMENT ABILITIES"

KENNETH H. HAYASHIDA, SENIOR ENGINEER SPECIALIST
SPACE SYSTEMS DIV., ROCKWELL INTERNATIONAL
DOWNEY, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO ENHANCING ROCKWELL'S
REPUTATION FOR EXCEPTIONAL ENGINEERING SUPPORT TO SPACE SHUTTLE VEHICLE PROCESSING"

DIRK T. KIMBROUGH, LEAD ENGINEER, NONDESTRUCTIVE TEST ENGINEERING
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO TECHNICAL
ACHIEVEMENTS IN THE FIELD OF ULTRASONIC AND EDDY CURRENT INSPECTION
TECHNOLOGIES"

STEPHEN R. LAFFLAM, DIVISION DIRECTOR, ENVIRONMENTAL, HEALTH AND SAFETY
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE IMPLEMENTATION
AND COMPLIANCE OF ENVIRONMENTAL SCIENCES CONTROLS, HEALTH AND SAFETY
INCLUDING WATER POLLUTION AND HAZARDOUS MATERIALS"

DR. RONALD G. LOVELY, TEAM MANAGER - SPACE OPERATIONS
SPACE STATION FREEDOM ELECTRIC POWER SYSTEM
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE DEVELOPMENT
OF NOMINAL AND CONTINGENCY PLANS AND PROCEDURES FOR ON-ORBIT ASSEMBLY
MAINTENANCE, CONTROL AND OPERATIONS OF THE ELECTRIC POWER SYSTEM (EPS)"

JOHN W. MEISNER, MEMBER OF TECHNICAL STAFF
ADVANCED POWER ENGINEERING
ROCKETDYNE DIV., ROCKWELL CORPORATION
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
DESIGN AND DEVELOPMENT OF HIGH SPEED INDUCTION MOTOR, ELECTROMAGNETIC PUMP
AND POWER DISTRIBUTION EQUIPMENT FOR FLUE GAS DESULFURIZATION"

TOM MELATIS, MANAGER, HARDWARE QUALITY ENGINEERING
GTE GOVERNMENT SYSTEMS CORPORATION
WESTLAKE VILLAGE, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
HARDWARE ENGINEERING DISCIPLINE"

RONALD MORINISHI, MEMBER OF TECHNICAL STAFF
NATIONAL AEROSPACE PLANE ENGINEERING
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
DEVELOPMENT OF A NASP ENGINE THAT REPRESENTS AN ADVANCEMENT IN
THE STATE-OF-THE-ART IN HEAT EXCHANGER TECHNOLOGY"

**THOMAS F. MULDOON, MANAGER MANUFACTURING SUPPORT AND TECHNOLOGY
CONTROL SYSTEMS DIVISION
PARKER HANNIFIN CORPORATION
IRVINE, CALIFORNIA**

RECOGNIZED FOR ADVANCED PRINCIPLES OF MANUFACTURING, RESEARCH AND DEVELOPMENT
IN COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY AND TOOL MANUFACTURING SYSTEMS

**ALAN D. NELSON, MANAGER, FIELD OPERATIONS
ENVIRONMENTAL HEALTH AND SAFETY
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
OPERATION AND MAINTENANCE OF GROUND WATER AND WASTE WATER SYSTEMS"

**JAMES A. NESTLERODE, CHIEF PROGRAM ENGINEER
KINETIC ENERGY WEAPON PROPULSION
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS, RESEARCH AND ADVANCED
PROGRAMS IN THE FIELDS OF COMBUSTION, PROPULSION AND FLUIDS"

**CHARLES S. OLSEFSKY, P.E.
SCHOOL OF ENGINEERING AND COMPUTER SCIENCE
CALIFORNIA STATE UNIVERSITY - NORTHRIDGE
NORTHRIDGE, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING CONTRIBUTIONS TO THE ENGINEERING PROFESSION AND THE EDUCATIONAL
PROGRAMS OF THE CALIFORNIA STATE UNIVERSITY AT NORTHRIDGE"

**DANIEL W. OSBURN, RESPONSIBLE ENGINEER , PRODUCT SUPPORT TEAM
NORTHROP B-2 DIVISION
PICO RIVERA, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE B-2
STEALTH BOMBER, AIR VEHICLES 5 AND 6, LEFT HAND RADAR BAY (ZONE 107), AND
AV-12 STRUCTURE/WIRE WEIGHT SAVINGS REDESIGN"

**VINCENT PATERNOSTER, MEMBER OF TECHNICAL STAFF
ADVANCED MANUFACTURING
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
DEVELOPMENT OF SENSOR CONTROLLED ROBOTIC TIG AND VISION CONTROLLED
MIG WELDING"

**TAMSEN E. PECHMAN, LEAD ENGINEER
GTE GOVERNMENT SYSTEMS CORPORATION
WESTLAKE VILLAGE, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
SOFTWARE DISCIPLINE WITH EMPHASIS IN THE UTAIN/MAIS, B1 SECURITY AND
THE CATIS TO RMS PROGRAMS"

**GEORGE O. ROBERTS, MANAGER, P & W INTEGRATION SUPPORT TEAM
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE
PRATT-WHITNEY TURBOPUMP PROGRAM, SSME OXIDIZER TURBOMACHINERY
DESIGN STRUCTURAL ANALYSIS, AND THE BEARING AND BLADE STRESS UNIT"

**MICH SAKATA, CHIEF PROCESS ENGINEER
THE RALPH M. PARSONS COMPANY
PASADENA, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE FIELD
OF HYDROCARBONS AND PETROCHEMICAL PROCESSES"

**STEPHEN STEPANEK, PROFESSOR
COMPUTER SCIENCE DEPARTMENT
CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
NORTHRIDGE, CALIFORNIA**

"RECOGNIZED FOR HIS OUTSTANDING EXPERTISE IN COMPUTER OPERATING SYSTEMS
AND COMPUTER NETWORKS, AND FOR HIS CONTRIBUTIONS IN THE FIELD OF HIGHER EDUCATION"

**JAMES STEWART, P.E.
NORTHROP CORPORATION
HAWTHORNE, CALIFORNIA**

"RECOGNIZED FOR SIGNIFICANT POST-RETIREMENT CONTRIBUTIONS TO THE
STANDING OF THE ENGINEERING PROFESSION, BEING INSTRUMENTAL IN THE
ESTABLISHMENT AND NURTURING OF THE CSPE EDUCATION FOUNDATION"

**RONALD URQUIDI, LEAD PRINCIPAL ENGINEER
SPACE SHUTTLE MAIN ENGINE DUCT TEAM
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA**

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE DESIGN,
DEVELOPMENT AND TEST OF ROCKET ENGINE INTERCONNECT COMPONENTS"

ROD VASQUEZ, P.E., PRINCIPAL
CONSULTING WEST ENGINEERS
WESTLAKE VILLAGE, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO THE DESIGN AND IMPLEMENTATION OF CONSTRUCTION PROJECTS IN THE FIELDS OF ELECTRICAL AND MECHANICAL ENGINEERING"

EGILS R. VIGANTS, PROGRAM INTEGRATOR, SPACE STATION FREEDOM
DPRO ROCKWELL CANOGA
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING EFFORTS TOWARDS EDUCATION OUTREACH ACTIVITIES AT SFV LOCAL SCHOOLS FOR PROMOTING ENGINEERING PROGRAMS"

RICHARD A. WOOD, DEPUTY CHIEF, ENGINEERING DIVISION
412 TEST WING EDWARDS AFB
EDWARDS AFB, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING CONTRIBUTIONS TO THE US AIR FORCE AND THE SCIENCE OF FLIGHT TESTING"

DR. TIEN TSAI YANG, MEMBER OF TECHNICAL STAFF
DIRECTED ENERGY & IMAGING ENGINEERING
ROCKETDYNE DIV., ROCKWELL INTERNATIONAL
CANOGA PARK, CALIFORNIA

"RECOGNIZED FOR OUTSTANDING ENGINEERING CONTRIBUTIONS TO CHEMICAL AND EXCIMER LASERS, OPTICAL AND CHEMICAL PHYSICS, AERODYNAMICS, COMBUSTION, REACTING FLOW, SOLID STATE PHYSICS, AND ELECTROMAGNETIC PHENOMENA"

DISTINGUISHED ENGINEERING ACHIEVEMENTS AWARD - 1993

DR. PETER T. LYMAN
JET PROPULSION LABORATORY
PASADENA, CALIFORNIA

DISTINGUISHED ENGINEERING EDUCATOR AWARD - 1993

DR. MICHAEL HASSUL
DEPARTMENT OF ELECTRICAL ENGINEERING
CALIFORNIA STATE UNIVERSITY, LONG BEACH
LONG BEACH, CALIFORNIA

DISTINGUISHED ENGINEERING PROJECT AWARD - 1993

MAGELLAN
THE MAGELLAN PROJECT TEAM
CALTECH JET PROPULSION LABORATORY
PASADENA, CALIFORNIA
DOUGLAS G. GRIFFITH, PROJECT MANAGER

Special Presentation

General Charles E. (Chuck) Yeager International Flight Achievements Award

— by —

Daniel Goldin
NASA Administrator
NASA Headquarters
Washington, D.C.

— to —

Joseph T. Gallager, President
Teledyne Systems
Northridge, California

General Charles E. (Chuck) Yeager International Flight Achievements Award

On October 14, 1947 General Yeager became the first man to fly faster than the speed of sound. He also became the first man to fly more than twice the speed of sound. He has flown 183 types of aircraft during his career and has more than 11,000 hours of flight time.

During World War II, General Yeager distinguished himself in aerial combat over France and Germany by shooting down 13 enemy aircraft. He was shot down over German-occupied France but managed to escape capture with the help of the French Maquis.

His subsequent assignments included: test pilot of the Nation's first research rocket aircraft, Commander of the 417th Fighter Squadron, Commander of the First Fighter Squadron, Commandant of the Aerospace Research Pilot School, Commander of the 405th Fighter Wing when he flew 127 missions in South Vietnam, Commander of the 4th Tactical Fighter Wing in Korea during the Pueblo crisis, and Vice Commander of the Seventeenth Air Force after promotion to Brigadier General.

His military decorations and awards include: The Distinguished Service Medal with one oak leaf cluster, The Silver Star with one oak leaf cluster, The Legion of Merit with one oak leaf cluster, The Distinguished Flying Cross with two oak leaf clusters, The Bronze Star Medal with V device, The Purple Heart, Distinguished Unit Citation Emblem with one oak leaf cluster, and the Air Force Outstanding Unit Award Ribbon.

Selection of recipients for this distinguished award reflect a lifetime career of dedication to the progress of aerospace technology.

Special Presentation

**Kelly Johnson Memorial Lockheed "Skunk Works" Award
for Aeronautical Engineering Achievements**

by

SHERMAN N. MULLIN, PRESIDENT
Lockheed Advanced Development Company
Calabasas, California

to

MAJOR GENERAL JAMES A. FAIN, JR.
Deputy Chief of Staff, Requirements
Wright Patterson Air Force Base, Ohio

Kelly Johnson Memorial Lockheed "Skunk Works" Award

Clarence L. "Kelly" Johnson's achievements over almost six decades captured every major aviation design award and made him an aerospace legend. These achievements go back to the 1930s, but he may be best known for organizing the Lockheed Skunk Works in 1943. It started as a small unit of engineering and production specialists to hurriedly create, build and fly the World War II XP-80 jet prototype for the U.S. Air Force. It was the first of many of the world's most advanced aircraft to be produced by the Skunk Works under his leadership.

Kelly played a leading role in the design of more than 40 aircraft, including the P-38 Lightning, the Constellation transport, the P2V Neptune anti-submarine patrol plane, the record-setting F-104 Starfighter, the U-2 reconnaissance aircraft and the SR-71 Blackbird.

He received more than 40 aircraft design and achievement awards and honors (several twice). Included are two Collier trophies, two Theodore von Karman Awards, the Wright Brothers Memorial Trophy, two Sylvanus Albert Reed Awards and the Daniel Guggenheim Medal. In 1964, President Lyndon Johnson presented him the nation's highest civilian honor, the Medal of Freedom. President Ronald Reagan honored Kelly Johnson with the National Security Medal in 1983 and the National Medal of Technology in 1988. Kelly was enshrined in the Aviation Hall of Fame in 1974.

The Kelly Johnson Memorial Lockheed Skunk Works Award is established to honor and to perpetuate his qualities, accomplishments, and standards as a model of excellence to be aspired to by future generations of engineers pioneering progress of the future.

Engineer of the Year Award - 1993

Presented by the 1992 Award Winner

SHERMAN N. MULLIN
President
Lockheed Advanced Development Company
Calabasas, California

— to —

ROBERT D. PASTER, FIAE, FAIAA
President
Rocketdyne Div., Rockwell International
Canoga Park, California

Peter Recchia Omni Memorial Award - 1993

Presented by the 1992 Award Winner

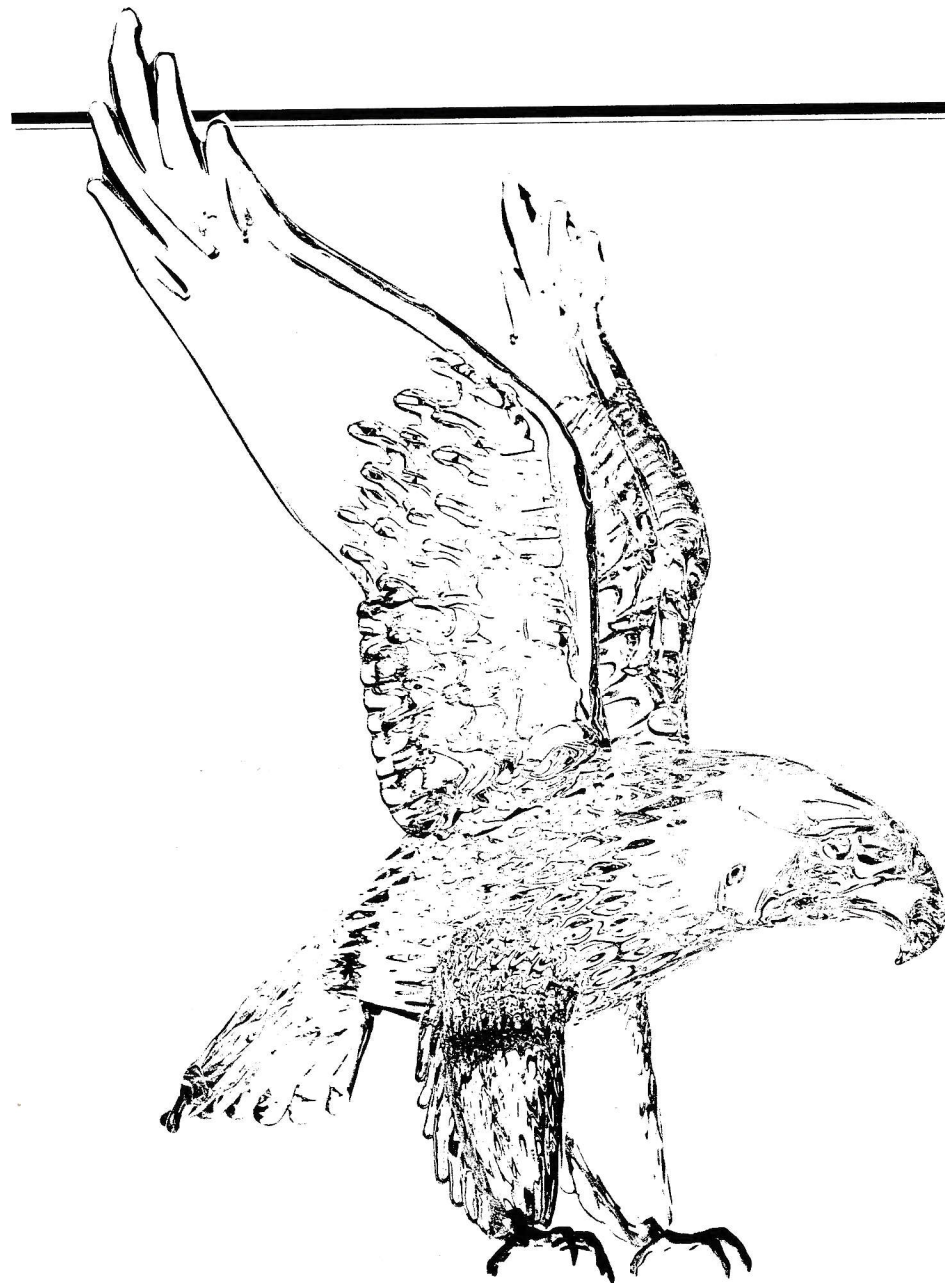
SHERMAN N. MULLIN
President
Lockheed Advanced Development Company
Calabasas, California

— to —

ROBERT D. PASTER, FIAE, FAIAA
President
Rocketdyne Div., Rockwell International
Canoga Park, California

The Peter Recchia Omni Memorial Award

The movies have their Oscars, the television industry has its Emmy and the San Fernando Valley Engineers' Council presents, for the 21st time, its Engineering Omni Award. This award was first presented in 1973 to the Engineer of the Year, San Fernando Valley. Since then, each succeeding Engineer of the Year has been awarded this beautiful, original trophy conceived, designed and produced by Peter Recchia, PE, SME, AIIE. Mr. Recchia was a dedicated supporter of the engineering community and when he passed away, the Omni Award was renamed in his honor, The Recchia Omni Memorial Award.



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ENGINEERS' COUNCIL ANNUAL ENGINEERS'

RECOGNITION PROGRAMS

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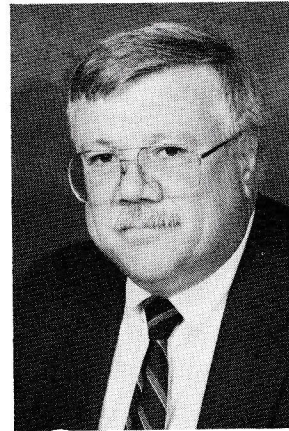
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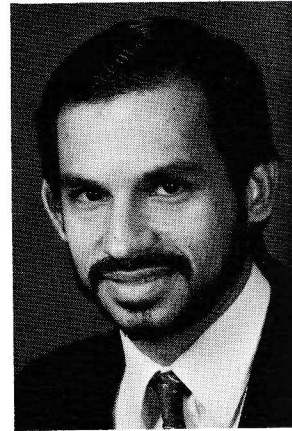
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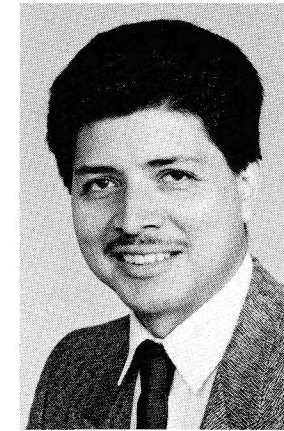
Stephen R. Lafflam
Director
Environment, Health & Safety



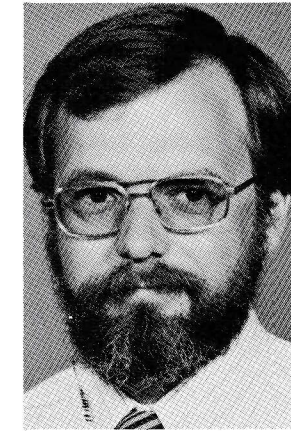
Dr. William Bellows
Member of Technical Staff
Total Quality Management Office



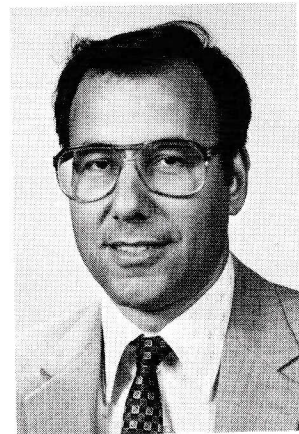
Lorin E. Blewett
Team Leader
Space Shuttle
Main Engine Development



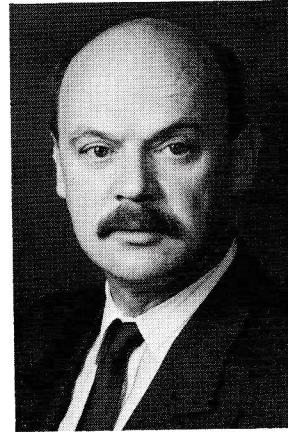
Antonio Buendia
Responsible Test Engineer
Engineering Development Laboratory



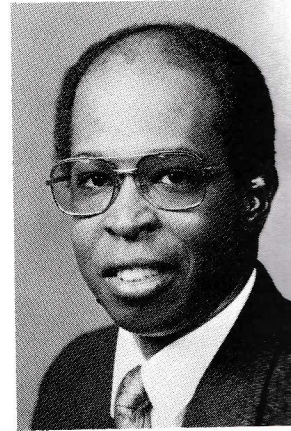
Jon D. Frandsen
Project Manager
Materials Engineering
Space Shuttle Main Engine



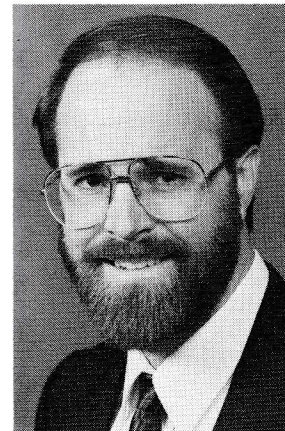
Yaacov Goland
Project Engineer, Anti-Satellite (ASAT)
Kinetic Energy Weapon Engineering



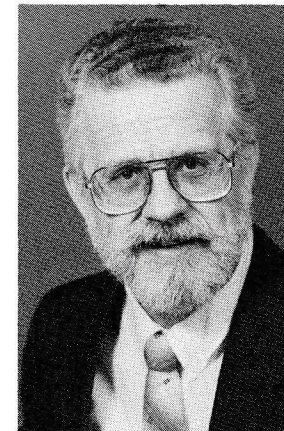
John A. Griffith
Program Interface Engineer
CAD/CAM/CAE Operations



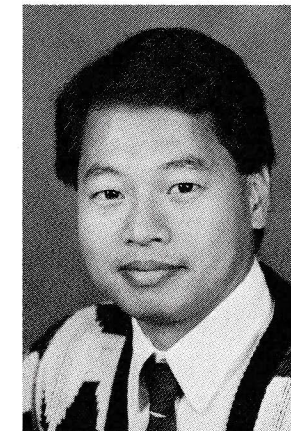
Dirk Kimbrough
Lead Nondestructive Engineer
Quality Assurance & System
Safety Engineering



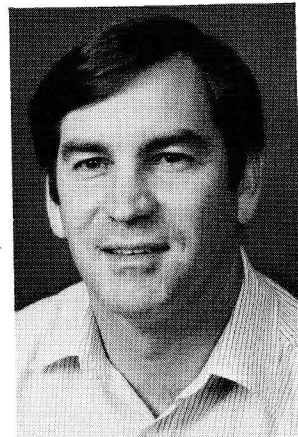
Dr. Ronald Lovely
Space Operations Team Member
Space Station Freedom
Electric Power System



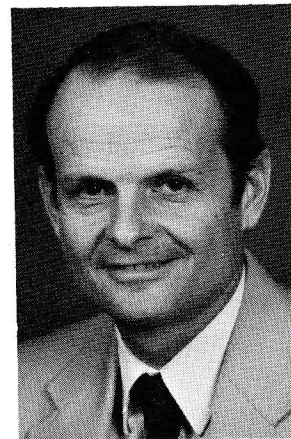
John W. Meisner
Member of Technical Staff
Advanced Power Engineering



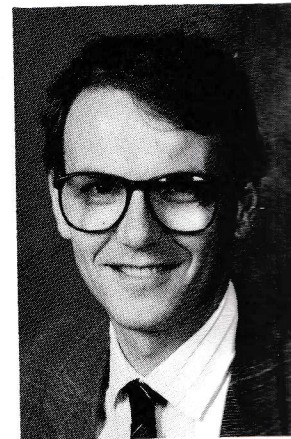
Ronald Morinishi
Member of Technical Staff
National Aero-Space
Plane Engineering



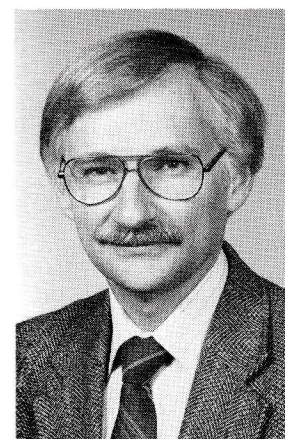
Alan D. Nelson
Manager
Environmental Field Operations



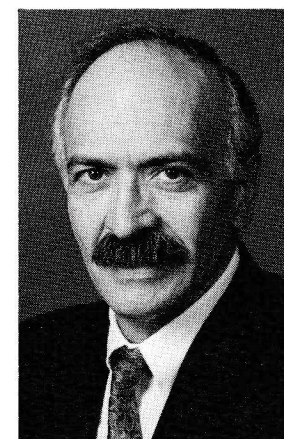
James A. Nestlerode
Chief Program Engineer
Kinetic Energy Weapon Engineering



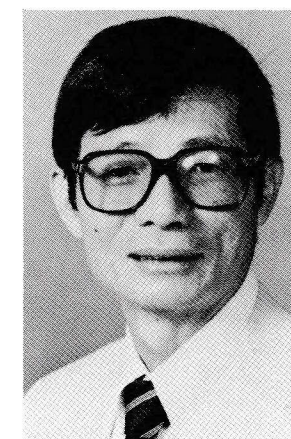
Vincent Paternoster
Member of Technical Staff
Advanced Robotic Manufacturing



George O. Roberts
Manager, Integration Support
P & W Turbopump Program
Space Shuttle Main Engine



Ronald Urquidi
Lead Principal Engineer
Duct Technical Team
Space Shuttle Main Engine



Dr. Tien Tsai Yang
Member of Technical Staff
Directed Energy/Imaging Engineering

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1959 Roy E. Marquardt, The Marquardt Corporation
 1960 Richard Bradshaw, Consulting Structural Engineering
 1961 Milford G. Childers, Lockheed California Company
 1962 Paul R. Vogt, Rocketdyne
 1963 George T. Harness, San Fernando Valley State College
 1964 Ralph Balent, Atomics International
 1965 Clarence L. Johnson, Lockheed California Company
 1966 Steven J. Domokos, Rocketdyne
 1967 James A. Roadston, Rocketdyne
 1968 Dr. Arnold M. Levine, ITT Aerospace
 1969 Willis M. Hawkins, Lockheed Aircraft Corporation
 1970 Ralph A. Lamm, Bendix Electrodynamics
 1971 Arthur A. Daush, Jr., Hughes Aircraft Company
 1972 Dr. R. N. Ghose, American Nucleonics Corporation
 1973 John J. Guarrera, SACOM
 1974 Elliott A. Green, Lockheed California Company
 1975 Mathew C. Ek, Rocketdyne
 1976 Sam F. Iacobellis, Atomics International
 1977 Lon L. Sanders, ITT Gilfillan
 1978 Norman J. Ryker, Rockwell International
 1979 Donald C. Tillman, City of Los Angeles
 1980 Dominick J. Sanchini, Rocketdyne
 1981 Ben R. Rich, Lockheed California Company
 1982 Dr. Paul B. MacCready, President, AeroVironment, Inc.
 1983 Charles G. Fargo, Rockwell International
 1984 Dr. Malcolm Currie, Hughes Aircraft Company
 1985 Phillip V. King, PE, FIAE, City of Los Angeles
 1986 Sophia K. Ashley, PE, Naval Civil Engineering Laboratory,
 Port Hueneme, CA
 1987 Dr. Rodney A. Boudreaux, FIAE, Vice President Engineering,
 Space Orbiter Division, Rockwell International, Downey, CA
 1988 George J. Hallinan, PE, FIAE, Vice President, Space Station Power,
 Rocketdyne Division, Rockwell International
 1989 Paul H. Lane, General Manager and Chief Engineer, Los Angeles,
 Department of Water and Power, Los Angeles, CA
 1990 William F. Ezell, FIAE, Vice President Engineering and Test,
 Rocketdyne Division, Rockwell International
 1991 Edward G. Linhart, PE, FSME, FIAE, EGL Holdings
 President and CEO, EGL Holding Company, La Jolla, CA
 1992 Sherman N. Mullin, President, Lockheed Advanced Development Co.,
 Calabasas, CA

**PAST RECIPIENTS OF
THE HONORARY ENGINEER OF THE YEAR AWARD**

1969 Edward Reineke, Lt. Governor, State of California
 1970 William Lear, Chairman of the Board, Lear Motors, Reno, NV
 1971 William F. Rockwell, Jr., Chairman of the Board, Rockwell International
 1972 The Honorable Donald R. Jackson, Deputy Assistant Secretary,
 U.S. Air Force
 1973 Daniel J. Houghton, Chairman of the Board,
 Lockheed Aircraft Corporation
 1974 Dr. Christopher C. Kraft, Jr., NASA, Lyndon B. Johnson Space Center
 1975 Burt F. Raynes, Chairman of the Board, Rohr Industries
 1976 Grant L. Hansen, Vice President and General Manager,
 General Dynamics, San Diego, CA
 1977 Aaron Cohen, Manager, Orbiter Project, NASA,
 Lyndon B. Johnson Space Center
 1978 Dr. David R. Scott, Former Astronaut, President,
 Scott-Preyss Associates, Inc., Los Angeles, CA
 1979 Major General James W. Stansberry, Washington, D.C.
 1980 Elmer B. Staats, Comptroller General of the United States,
 Washington, D.C.
 1981 Douglas T. Ross, Chairman of the Board, SOFTECH, Inc.,
 Waltham, MA
 1982 Ronald Reagan, President of the United States
 1983 Malcolm Baldrige, United States Secretary of Commerce
 1984 James R. Berrett, President and CEO, Computervision
 Corporation, Bedford, MA
 1985 Len J. Weaver, CEng, Executive Chairman, Polymark
 International, London, England
 1986 J. Tracy O'Rourke, President, CEO, Allen Bradley Co.,
 Milwaukee, WI
 1987 David R. McMurtry, Chairman of the Board,
 Renishaw PLC, England
 1988 Jon Michael Smith, FIAE, Deputy Assistant Administrator for
 Commercial Programs, NASA Headquarters, Washington, D.C.
 1989 Dennis E. Wisnosky, President, Wizdom Systems, Inc.
 Naperville, IL
 1990 Dick Cheney, United States Secretary of Defense
 1991 No presentation
 1992 No presentation

MATH-COUNT STUDENT RECOGNITION

THE SAN FERNANDO VALLEY ENGINEERS' COUNCIL RECOGNIZES AND CONGRATULATES
THE AWARD WINNERS IN THE 1993 NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS,
SAN FERNANDO VALLEY CHAPTER, MATH-COUNT COMPETITION.

IN APPRECIATION

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CSPE SANTA MONICA	NORTHROP B-2
CSUN ENGINEERING & COMPUTER SCIENCE	THE RALPH M. PARSONS CO.
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THE TEXT OF THE PROGRAM FOR THE 38TH ANNUAL SAN FERNANDO VALLEY ENGINEERS' COUNCIL
HONOR AWARDS GALA BANQUET HAS BEEN COMPUTER GENERATED THROUGH THE COURTESY OF THE
FACILITIES MANAGEMENT DIVISION, WESTLAKE MEDICAL CENTER
WESTLAKE VILLAGE, CALIFORNIA

SPECIAL THANKS TO GUY STROEBEL, TELECOMMUNICATIONS TECHNICIAN

CONGRATULATIONS

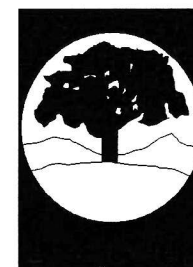
ROLAND V. ROGGERO, FIAE



ON THE PRESENTATION OF

SAN FERNANDO VALLEY ENGINEERS' COUNCIL

**WILLIAM B. JOHNSON
INTERNATIONAL INTERPROFESSIONAL FOUNDERS MEMORIAL AWARD**



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No matter where we go,
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directly into Earth orbit from a conventional runway.

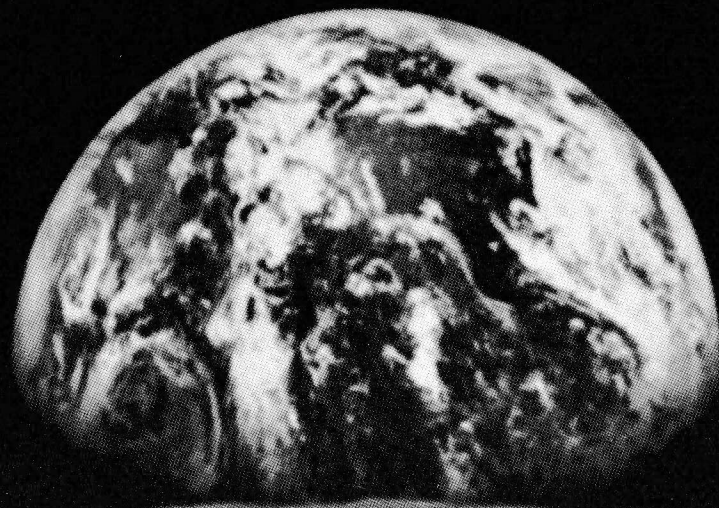
But Rocketdyne people also recognize a commitment much closer to home. It's an obligation to the well-being of the communities in which we live and work.

We carry that commitment wherever we go. Because no matter what new worlds we discover, our ultimate challenge will always be to take better care of our own.



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Congratulations to

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1993 AWARDEES

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*We extend our congratulations to
our award recipients:*

**Tamsen Pechman
Tom Melatis**

and all the other 1992 award recipients

Imagery/Intelligence Software Engineers

We're looking for Engineers with entry level to 8 years related experience to be responsible for defining systems, and designing, testing, implementing, documenting and integrating COTS/GOTS and developed software under DoD-STD-2167A. Candidates will also provide detailed written documentation and oral presentations to government and company management. In addition to a BSCS or equivalent, successful candidates must have either recent academic or work experience with the following: UNIX, C Language, Program Design Language, and LAN (Ethernet, TCP/IP). Experience with 32 bit workstations, Graphics, X-Windows, MOTIF, structured analysis and design, communications protocols, system integration, RDBMS design/applications, VMS, FORTRAN, and CATIS is highly preferred.

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We're looking for Software Engineers to perform requirements analysis, designing and developing meteorological application systems, preparing and performing technical proposals and presentations, including design reviews. Must have a BSEE or equivalent. A MS in meteorology, atmospheric science, physics or equivalent a plus and two years related work experience. Must also be proficient in the following: Systems design, requirements analysis, integration and test of automated meteorological systems, database design, communications, graphics, man-machine interface, C Language and UNIX systems in a workstation environment.



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IN MEMORIAM

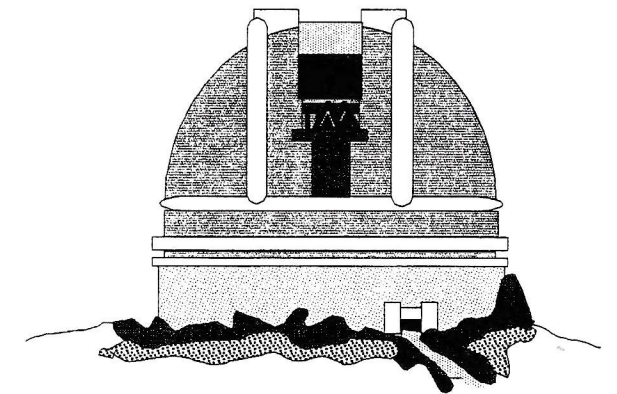
We regret the passing of

Harlan L. Russ, PE, FIAE

1988 President

SAN FERNANDO VALLEY ENGINEERS' COUNCIL

Turning Ideas Into Reality



Touch the thermostat and heat warms the room. Turn a faucet and clean water fills a glass. Lift the telephone receiver and voices speak from around the globe. **National Engineers Week** celebrates people responsible for these technological achievements; people who constantly improve our quality of life and help us compete in an increasingly technological world.

Each February the national spotlight shines on engineers, the people turning ideas into reality. Since the National Society of Professional Engineers established **National Engineers Week** in 1951, the annual observance has grown to an activity-packed event across America. It unites engineers and the public in a celebration of innovation and technology. Tens of thousands of engineers in U.S. corporations, government agencies, private firms and universities participate with government and business leaders, students, teachers and the media.

Engineering expositions and technological displays at local malls, business offices and libraries demonstrate the many innovative facets of the profession.

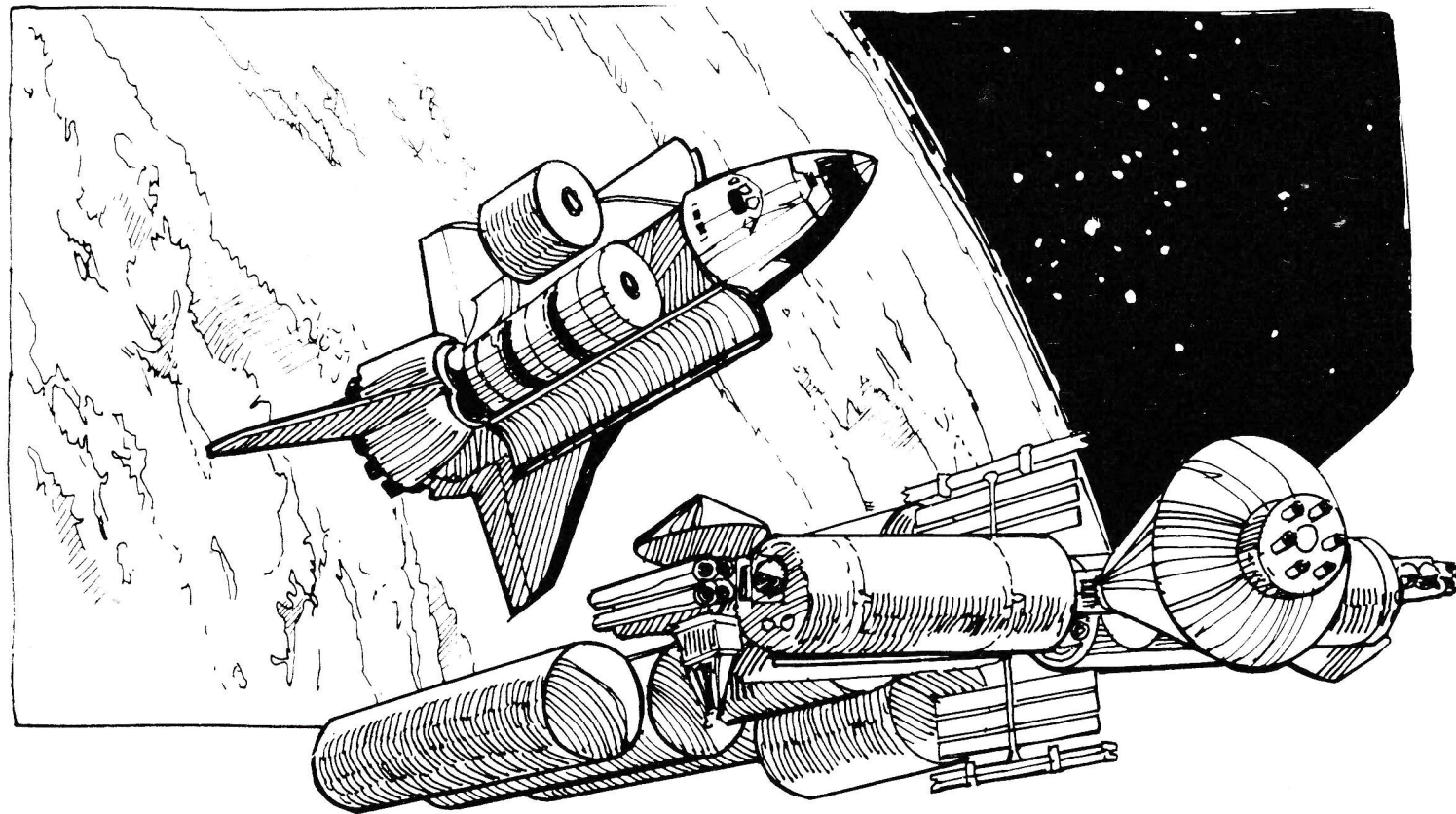
An annual exhibit at the Empire State Plaza in Albany, New York, draws some 10,000 visitors for displays, a trade show, and student contests. Engineers in Los Angeles have sponsored a public program on computer graphics in art at the California Museum of Science and Industry.

From the White House to the state house, proclamations praise **National Engineers Week**. Local officials draw attention to engineering successes in their communities as well as to future engineering needs.

The **San Fernando Valley Engineers' Council** is proud to sponsor the Annual Honor Awards Gala Banquet, as our effort to publicly recognize local engineers and engineering projects.

HUMAN ENERGY AND SPACE FITNESS

NATIONAL ENGINEERS WEEK



ENGINEERS -

TURNING IDEAS INTO REALITY

ENGINEERS AND POWERS OF ENERGY NATIONAL ENGINEERS WEEK - 1993

by Dr. Martha Sloan

1993 President

The Institute of Electrical and Electronics Engineers, Inc.

Energy has captivated mankind since the beginning of time. It was our ancestors' fascination with energy that drove their quest for fire. As we evolved, we learned to harness forms present in nature, such as coal, natural gas, oil, electricity and atomic energy. Then, when we needed to find alternatives, we learned to harness the sun, wind and water.

Engineers have been the main source of human energy that has fueled our quest for energy. And women engineers have contributed their energies as well. In fact, over 100 years ago, Bertha Lamme became the first woman graduated of an engineering degree program in the United States. Lamme headed the engineering department at Westinghouse Electric, overseeing the design and manufacture of motors and generators. Today, over 20,000 women have followed Lamme's lead and are currently enrolled in engineering programs. As we approach the millennium, we must continue to tap the energies of both men and women engineers, so we can maintain our competitive edge in an increasingly technological world.

We celebrate **NATIONAL ENGINEERS WEEK**, in February 1993, to recognize engineering accomplishments of the past and present, and to lay the groundwork for future successes. To acknowledge these contributions, IEEE United States Activities is sponsoring a photography contest. "Visions of Technology: Powers of Energy" calls on practicing engineers and engineering students to capture on film engineers' achievements as they develop and conserve our nation's energy sources in an environmentally safe manner.

Engineers have channeled their energies into various modes of transportation, from steamships and railroads to jets and electric-powered automobiles. The ingenuity of engineers is reflected in the medical world with such recent contributions as the artificial heart and magnetic resonance imaging. Engineers' contributions to society are linked with almost everything we do today, turning ideas into reality.

During **NATIONAL ENGINEERS WEEK**, engineers from corporations, government agencies, and universities will conduct Discover "E" teach-ins. In 1993, the "E" represents energy, a fitting choice for all the engineers who have powered our way of life. Over 30,000 professionals will interact with nearly three million students. These engineers will help youngsters feel the empowerment that results when they are given the tools to turn their ideas into reality. These visits will also help students relate math and science to the world around them.

Throughout time, engineers have fueled our ideas. Let's take February 14-20 to acknowledge our past and present contributions, and to encourage future contributions. As the nation's future lies increasingly in the minds and hands of engineers, we must continue to tap the energy in human and natural resources.

CHEVRON'S CHAIRMAN CALLS ON TOMORROW'S ENGINEERS TO BALANCE ENERGY AND ENVIRONMENT

By *Kenneth T. Derr*
Chairman and CEO, Chevron Corporation

Some years ago, long before I became the chairman of Chevron, I worked for a very smart and able man, and engineer, who had a wonderful approach to problems that he summarized by saying, "A lot of apparent problems aren't really problems — they are a lack of relevant information." So, when confronted with a difficult situation, he'd step back, examine the problem from every angle, and often see the solution where others had only seen confusion.

To me this is the great advantage of engineering: You learn, by theory and practice, to take the problems of the world — and there's a never-ending supply — and find solutions and opportunities. An engineer is a problem solver.

And these days, I am specially interested in what may be the defining problem for the United States and the world in the coming years: energy and its pivotal role in creating the world of tomorrow.

I believe the 1990s in many ways will be critical for energy production and use — and for the human society that relies on energy to grow its food, warm its homes, run its factories, and fuel its cars and trucks. As the world's population grows and economies expand, as new technologies are born and old industries transform, energy will play a vital — even central — role. We will face, in the coming year, the search for more energy, energy from new sources, greater energy conservation, and cleaner forms of energy.

This search will be difficult because of the technical hurdles, and those will be fascinating in themselves.

But for me, there's another dimension that makes engineering specially rewarding. It's the human side of engineering. As a career, it offers the young man or woman an almost unique opportunity to help shape a better world in two very important ways.

First, engineering as applied to global energy production will be central to improving the standard of living of the entire world, but specially for the hundreds of millions of people in developing nations in South America, Asia and Africa.

The population in many of these areas is growing rapidly. The world will have seven billion people by the year 2000, up from 5.3 billion today, and many of these will be children born into a world threatened with hunger, illiteracy, and disease. I feel that we have an obligation to help them develop their natural resources, especially the energy resources to fuel the agriculture and industry that will improve their standard of living.

The second way engineering can help is in finding better ways to protect the environment while producing the energy of tomorrow. It won't be easy. But I'm convinced that solutions will be found, and they will come largely from a diverse spectrum of men and women who are willing to do the hard work required in math and science that is absolutely essential to first understanding the problem and then finding solutions.

The United States and the world community must find reasonable solutions that balance environmental protection and economic development. How to achieve and sustain this balance will be an increasingly critical issue for tomorrow's engineering problem solvers.

I'd encourage young Americans who want to be part of this drive for a better tomorrow to consider technically oriented careers in engineering.

During **NATIONAL ENGINEERS WEEK**, thousands of engineers will reach into their communities and local schools to show how the engineering professional contributes to our quality of life and to interest youngsters in the technological world around them.

I hope you will join with us in this celebration of engineering as we meet today's technical challenges and create the world of tomorrow.