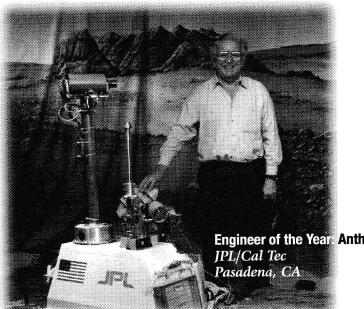
ENGINEERS' **COUNCIL**



Woodland Hills, California

43rd Anniversary Honors and Awards Gala Banquet Souvenir Program

Saturday, February 28, 1998



Engineer of the Year Anthony Joseph Spear



In Celebration of National Engineers Week February 22-28, 1998

THE WHITE HOUSE WASHINGTON, D.C.

December 19, 1997

Week, 1998.

In our rapidly changing world, we look to America's engineers for the creativity and innovation to meet the increasingly complex technological challenges that lie before us. With outstanding skill and vision, these dedicated professionals With outstanding skill and vision, these dedicated professionals strive every day to improve the lives of all our citizens. Thanks to their determination and ingenuity, they are truly making a world of difference in almost every aspect of human experience. From health care to the environment to the global economy, engineers have made invaluable contributions and promise us a future of even greater health and prosperity.

During National Engineers Week, engineers across the nation are making a special effort to help millions of students discover practical applications of math, science, and technology through hands-on activities. I encourage all Americans to take advantage of this unique opportunity to learn about the engineering profession and to recognize the countless contributions our nation's engineers make to the quality of our lives. Best wishes for a rewarding and informative week.

Warm greetings to everyone observing National Engineers

Pile Clinton

CONGRATULATIONS

Lockheed Martin Skunk Works 1998 Engineers' Council Award Winners

Distinguished Engineering Project Achievement Award

Alan Goforth X-33 Aeroelasticity Engineering Development Team Leader

> Gary Hafen Software Development Team Leader

Kevin Hirschbueler Composite Process Development Team (JASSM) Leader

> Carl Meade LASRE Program Team Leader

Jon Sharp Composite Process Development Team (JASSM) Leader

Outstanding Engineering Achievement Merit Award

Bobby Adams Scott Ames Tom Anderson Herand Bedrossian Jeff Beranek Jim Brown Dave Carlile Kirk Cassidy **Rick Choate Bob Cuccias** Geoff DeBoer

John Fish **Gary Fulton** Gene Glinecki Tom Hartman Eric Hofstatter Paul Landry Hank Marchionni **Bob McWilliams** Jim Mellady Keith Pedersen

LOCKBEED MARTIN Slough Works

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Don Santman William Schneider Steve Slaughter **Terry Starr Rick Stone** Lori Wallace Brian Ward Velma Wisham **Bruce Wright** Hussein Youssef Don Zieler

SOCIAL HOUR - 6:00 P.M.

WELCOME - 7:00 P.M.

SALUTE TO THE FLAG

SPECIAL IEEE PRESENTATION

SPECIAL PRESENTATION

LOCAL ENGINEERS WEEK

PRESENTATION OF AWARDS

SPECIAL PRESENTATION

CLOSING REMARKS

INTRODUCTIONS

DINNER

Saturday, February 28, 1998

ENGINEERS' **C**OUNCIL Woodland Hills, California

43rd Anniversary HONORS & AWARDS GALA BANQUET

LLOYD W. HIGGINBOTHAM, FIAE HIGGINBOTHAM ASSOCIATES PRESIDENT, ENGINEERS' COUNCIL

LLOYD W. HIGGINBOTHAM, FIAE

FERNANDO CALDERON

BYRON K. WOOD PROPULSION DEVELOPMENT VICE PRESIDENT ROCKETDYNE

ALAN HALLDEN ENGINEERING VICE PRESIDENT ROCKETDYNE

CHARLES K. ALEXANDER, Ph.D., P.E., FIEEE, FIAE, INTERNATIONAL PRESIDENT INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

DR. JOHN GUARRERA CSUN/CECS

LLOYD W. HIGGINBOTHAM, FIAE

	ENGINEERS' COUNCIL woodland hills, california	
1955	A Brief History	1998

Founded in 1955 as the San Fernando Valley Engineers' Council 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 Engineers' Council has celebrated National Engineers Week, a national week of recognition, since 1950.

Over the past several years, the Council's activities have grown from a joint meeting of these societies 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 1969 when the first Honorary Engineer of the Year, Ed Reineke, was selected. Over the past 28 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 Aeronautical Achievements Award." This award is given periodically, with General Yeager's approval, to aeronautical engineers who work on a global level.

In February 1993 Lockheed Advanced Development Company granted the Engineers' Council the privilege of using both service marks "Skunk Works" and the stylized "Skunk" in our Clarence L. "Kelly Johnson Skunk Works Award."

Through the years, the Engineers' Council has presented numerous awards recognizing outstanding contributions by individuals in our community and throughout the world in the fields of engineering, education, special fields of work and public service.

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1998 AWARDS & PRESENTATIONS Special Presentation

William B. Johnson International Inter-professional Founders Memorial Award

William B. Johnson International Inter-professional Founders Memorial Award

In 1955 Bill Johnson was one of the founders of the Engineers' Council, formerly San Fernando Valley Engineers' Council. Bill had an untiring commitment to form and build the Council into a unified and effective body representing 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 people as a means of providing a model of excellence.

The William B. Johnson International Inter-professional 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.

First Presentation was to William B. Johnson in 1982. No further presentations were made until 1990. George J. Hallinan Dr. John J. Guarren 1990 1991 Norman Shaffier Alan R. "Al" Bjorklu 1994 1995

by

Byron K. Wood

Propulsion Development Vice President Rocketdyne Propulsion & Power The Boeing Company

to

Jim Albaugh

President Rocketdyne Propulsion & Power The Boeing Company

Past Recipients

era	Lloyd W. Higginbotham	Roland V. Roggero
	1992	1993
und	Jack L. Ferrell	Byron K. Wood
	1996	1997

IEEE SPECIAL PRESENTATION

The Institute of Electrical and Electronics Engineers (IEEE) Los Angeles Council Chapter (LAC), and Joint Orange County Section Chapter (OC), Power Engineering Society (PES), Industry Applications Society (IAS), 1998 Special High School Student Paper Contest Presentations

The Engineers' Council proudly endorses and is very happy to support IEEE LAC PES, LAC IAS, and OC PES/IAS engineering educationl programs.

IEEE member Fernando Calderon assisted by Kirby Holte shall now present plaques and monetary awards to the IEE LAC PES, LAC IAS, and OC PES/IAS sponsored High School Paper Contestant winners.

Please note:

All Area high school student contestants have been advised if they are or are not a winner, but the four winning students have not yet been advised of their individual contest finishing position.

Tonight the ranking position, i.e., number 1,2,3 and 4 will be announced as a total surprise.

The four 1998 contest winners are, in no particular order:

Mitra Khyyam Weilyn Jin Teresa C. Hendrich Sharmistha Majumdar

Calabasas High School Alexander Hamilton High School Glendora High School Palos Verdes Peninsula High School

An Additional three honorable mention contestants shall also be announced.

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Please join us in honoring our exceptional young students.

OUTSTANDING ENGINEERING **ACHIEVEMENT MERIT AWARDS – 1998**

Bobby Adams Team Member JASSM Composite Process Project Lockheed Martin Skunk Works Palmdale, CA

Scott Edward Ames Senior Design Specialist Loads Analysis Lockheed Martin Skunk Works Palmdale, CA

Thomas Anderson Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

> **Armond Asadurian** Design Engineer Schaeffer Magnetics, Inc. Chatsworth, CA

James R. Ausbourne Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Peter A. Barnett Team Member Lift Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Herand Bedrossian Team Member X33 Aeroelasticity Engineering Project Lockheed Martin Skunk Works Palmdale, CA

> Jeff Allen Beranek Senior Research Specialist Lockheed Martin Skunk Works Palmdale, CA

Murray Bernstein Principal Engineer Northrop Grumman Military Systems Division Pico Rivera, CA

◆ For outstanding qualities and meritorious achievements within ◆ the field of engineering Woodland Hills, California

PRESENTED IN ALPHABETICAL ORDER

Kathleen Bradford Senior Technical Specialist Northrop Grumman Corp. Pico Rivera, CA

Richard A. Bongiovanni Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

> Jim Brown Team Member JASSN Composite Process Project Lockheed Martin Skunk Words Palmdale, CA

David Carlile Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

Kirk Bevis Cassidy Team Member X33 Aeroelasticity Engineering Project Lockheed Martin Skunk Works Palmdale, CA

Lih-Hsing Chang Senior Lead Engineer on the Digital Imagery **Exploitation and Production System** GTE Government Systems Intelligence Operations Organization Thousand Oaks, CA

Richard Choate Team Member Linewar Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

Wynn L. Christensen Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 1998

Roger Chua Design Engineer Schaeffer Magnetics Chatsworth, CA

Robert Cuccias Division Managing Engineer Structural Analysis & Integrity Leadership Lockheed Martin Skunk Works Palmdale, CA

> Geoffrey DeBoer Team Member Software Development Project Lockheed Martin Skunk Works Palmdale, CA

Richard Detar Avionics Subsystems Design Engineer Northrop Grumman Corp. Palmdale, CA

Terrance P. Domae Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

James A. Dominguez Lead Test Engineer for the Imagery Exploitation Support System GTE Government Systems Intelligence Operations Organization Thousand Oaks, CA

Dr. John Fish Ph.D. Team Member JASSM Composite Process Project Lockheed Martin Skunk Works Palmdale, CA

Boris C. Fritz Engineer Specialist Military Aricraft Systems Division Northrop Grumman Corp. Pico Rivera, CA

Gary Fulton Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

Rovert M. Garcia Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA Paul D. Geiger Team Member Life Support for Trauma and Transport Project Northrop Grumman corp. Military Systems Division Pico Rivera, CA

> Gene Clinecki Team Member JASSM Composite Process Project Lockheed Martin Skunk Works

Donald Hanks Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Matthew E. Hanson Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Thomas M. Hartmann Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

Eric Hofstatter Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

Nazlin R. Kanji Lead Engineer for the Graphical Situation Display Datastore GTE Government Systems Intellignece Operation Organization Thousand Oaks, CA

> Jeffrey S. Kincaid Chief Program Engineer X-33 Linear Aerospike Engine Rocketdyne Division The Boeing Company Canoga Park, CA

John P. Kjoelsch Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 1998

Dr. Jayanth N. Kudva, Ph.D. Manager Advanced Structural Concepts Northrop Grumman Corp. Military Aircraft Systems Division El Segundo, CA

> Paul F. Landry Chief Engineer X-33 System Lockheed Martin Skunk Works Palmdale, CA

John E. Larson Process Leader for Production Stress Analysis Rocketdyne Division The Boeing Company Canoga Park, CA

Dr. Edward Douglas Lynch, Ph.D. Senior Engineering Specialist Rocket and Airbreathing Propulsion Systems Rocketdyne Division The Boeing Company Canoga Park, CA

> Hank Marchionni Team Member JASSM Composite Process Project Lockheed Martin Skunk Works Palmdale, CA

Steven W. Mark Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Robert McWilliams Team Member Linear Aerospike SR-71 Experiment Project Lockheed Martin Skunk Works Palmdale, CA

James A. Mellady Structure and Subsystem Design Engineer Lockheed Martin Skunk Works Palmdale, CA

Jozsef Moharos Space Flight Mechanism Engineer Schaeffer Magnetics, Inc. Chatsworth, CA

Dr. Digambar P. Mondkar, Ph.D. Principal Engineering Specialist Robust Design Computational System Rocketdyne Division The Boeing Company Canoga Park, CA Linsey M. Orr Process Leader Structural Analysis Defense & Space Group Rocketdyne Division The Boeing Company Canoga Park, CA

Joseph W. Pawlowski Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Dr. Fred Pearce, Ph.D. Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

> Keith Pedersen Team Member Software Development Project Lockheed Martin Skunk Works Palmdale, CA

Richard K. Pemberton Design Engineering Specialist for Structures and Surface Treatment on the B-2 Northrop Grumman Corp. Palmdale, CA

Tien Phan Space Flight Motion Control Systems Engineer Schaeffer Magnetics, Inc. Chatsworth, CA

George H. Prueger Process Leader, Rotating Machinery Analysis Rocketdyne Division The Boeing Company Canoga Park, CA

Monica L. Rommel Integrated Product Team Leader, Structures Research & Development Military Aircraft Systems Division Northrop Grumman Corp. El Segundo, CA

Don M. Santman Propulsion System Design Lead Engineer Lockheed Martin Skunk Works Palmdale, CA

William F. Schneider Dynamics Engineer Rapid Motion Mechanisms Lockheed Martin Skunk Works Palmdale, CA

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 1998

Steve Slaughter Team Member JASSM Composite Process Project Lockheed Martin Skunk Works Palmdale, CA

Terence P. Starr Team Member Software Development Project Lockheed Martin Skunk Works Palmdale, CA

Rick Stone Team Member Software Development Project Lockheed Martin Skunk Works Palmdale, CA

Kent K. Tam Engineering Specialist, Lead Engineer Electromagnetics Laboratory Northrop Grumman Corp. Pico Rivera, CA

Paul K. Tierney Avionics and Armament Flight Commander F-16 Combined Test Force United States Air Force Edwards Air Force Base, CA

Dr. Louis S. Toth, Ph.D. Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Prescott John Van Horn Lead Software Integration Engineer for the Automated Weather Distribution System GTE Government Systems Intelligence Operations Organization Thousand Oaks, CA

Lori Wallace Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Brian Ward Team Member Software Development Project Lockheed Martin Skunk Works Palmdale, CA

William H. White Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

John M. Wilson Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

> Vilma I. Wisham Electrical Design Engineer Lockheed Martin Skunk Works Palmdale, CA

Bruce R. Wright Program Director for New Cargo Transportation System for 21st Century Lockheed Martin Skunk Works Palmdale, CA

Dr. Hussein Youssef, Ph.D. Manager X-33 Flight Sciences Organization Integrated Aerospace System Design Lockheed Martin Skunk Works Palmdale, CA

Donald C. Zeiller Team Member Life Support for Trauma and Transport Project Northrop Grumman Corp. Military Systems Division Pico Rivera, CA

Engineers' Council Special Award of Appreciation 1998

Steven J. Berroth Northrop Grumman Corp. Military Aircraft Systems Division Test & Evaluation Manager Design Engineering Hawthorne, Palmdale, and Pico Rivera, CA

DISTINGUISHED ENGINEERING **ACHIEVEMENT AWARDS - 1998**

Michael L. Gustason

Project Engineer Show/Ride Advanced Engineering Northrop Grumman / Walt Disney Imagineering Glendale, CA

Distinguished Engineering Community Service Award 1998

Alan L. Hallden

Vice President Engineering Rocketdyne Propulsion and Power Canoga Park, CA

Charles E. Kohlhase

Project Engineering Manager Cassini Mission to Saturn Jet Propulsion Laboratory / California Institute of Technology Pasadena, CA

Distinguished Community Service Award 1998

Charles C. Olsefsky, P.E.

President Build Rehabilitation Industries, Inc. San Fernando Valley, CA

Milton D. Garland, P.E.

Secretary & Treasurer Engineers' Council, Inc., and California Society of Professional Engineers Northridge, CA

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS - 1998

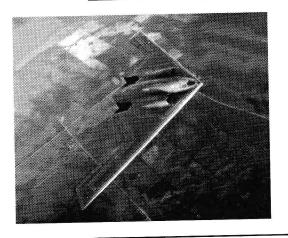
Advanced Technology Surface **Transportation System Project**

Team Leaders

Dr. Adi Arieli Ph.D. Manager, Surface Transportation Systems

David H. DeMent Technical Manager, Integrated Product Development Team Leader

> Northrop Grumman Corp. Surface Transportation Systems El Segundo, CA





B-2 Flight Test Project

Team Leaders

Robert G. Myers Vice President MASD B-2 Flight Test Operations Northrop Grumman Corp. Pico Rivera, CA

Col. Stuart L. Haupt, USAF Vice Commander of the 412th Test Wing, Edwards Air Force Base, CA

JASSM Composite Process Development Project

Team Leaders

Dr. Kevin Hirschbuehler Ph.D. and Jon Sharp Lockheed Martin Skunk Works Palmdale, CA

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Life Support for Trauma and Transport (LSTAT) Project

Team Leaders

David D. Hood Senior Program Manager William R. Sobko **Chief Engineer**

Bryan Mitchell

Business Manager

Todd D. Kneale Program Manager

Northrop Grumman Corp., Pico Rivera, CA

Software Engineering Process Improvement Project

Surface Maintenance Reduction Project

Patricia R. Jones Manager Materials, Processes, Standards, and ManTech Department Northrop Grumman, MASD Palmdale, CA

X33 Aeroelasticity Engineering Development Project

Linear Aerospike SR-71 Experiment (LASRE) Project

Team Leader

Carl Meade Lockheed Martin Skunk Works Palmdale, CA

Team Leader

Gary Hafen Lockheed Martin Skunk Works Palmdale, CA

Team Leader

Team Leader

E. Allan Goforth

Research and Development Engineer Lockheed Martin Skunk Works Palmdale, CA

Special Presentation

DISTINGUSHED ENGINEERING PROJECT ACHIEVEMENT OF THE YEAR AWARD 1998

Team Leaders

Brewster Shaw Vice President and Program Manager International Space Station Electric Power System Rocketdyne Propulsion & Power The Boeing Company Canoga Park, CA

Dr. Joseph Mills Vice President and Program Manager International Space Station Electric Power System Rocketdyne Propulsion & Power The Boeing Company **Teams (36)** Canoga Park, CA The Assembly and Test Team

The Cabling Team The Cargo Element Test Team The Configuration and Data Management Team The Contracts, Pricing, and Estimating Team The Control System Design and Software Test Team The DC Switching Unit Team The DC to DC Converter and Electronic Control Unit Team The Dynamic Modeling Verification Team The EEE Parts Team The Electrical Support Equipment Team The Electronic Orbital Replacement Unit Manufacturing Team The Flight Software Team The Ground and Test Software Team The Launch Package Integration Team The Local Data Interface and Firmware Team The Logistics and Maintenance The Materials and Processes Team The Mechanical Support Equipment Team The Photovoltaic Electronics Team The Plasma Contactor Team The Power Module Design Integration Team The Power Module Manufacturing Team The Power System Team The Program Finance Team The Program Scheduling Team The Quality Engineering Team The Remote Power Controller Module Team The Safety, Reliability, and Maintainability Team The Solar Array and Beta Gimbal Team The Space Operations and Flight Experiments Team The Space Power Electronics Laboratory Team The Space Structures Team The System Analysis Team The System Engineering Team The Thermal Control System Team

Brigadier General Charles E. (Chuck) Yeager International Aeronautical Achievements Award - 1998

by

Brigadier General Charles E. (Chuck) Yeager

to

Major General Richard L. Engel, USAF Commander of the Air Force Flight Test Center Edwards Air Force Base, CA

Brig. General Charles E. (Chuck) Yeager International Aeronautical 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.

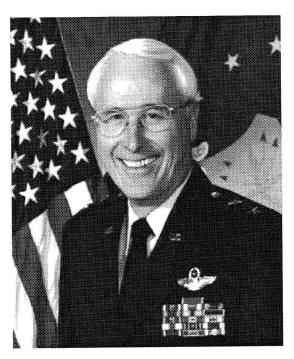
His subsequent assignments included: test pilot of the Nation's first research rocket aircraft, Commander of the 417th Fighter Squadron, Commander of the First Fighter Squadron, Commandant of the Aerospace Research Pilot School, Commander of the 405th Fighter Wing when he flew 127 missions in South Vietnam, 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 cluster, 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.

of aerospace technology.

Past Recipients					
Robert R. Sandusky, Jr. FIAE	Joseph T. Gallagher	Franklin Chang Diaz	David L. Ferguson		
1991	1993	1995	1997		
no presentation	Edward C. "Pete" Aldridge, Jr.	Jack Real			
1992	1994	1996			

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

Engineering Education Recognition 1998

Distinguished Contributions to Engineering **Education Enhancement Award 1998**

> Donald R. Penn Department of Water & Power Los Angeles, CA



Distinguished Engineering Education Achievement Award 1998

Dr. Charles Alexander International President Institute of Electrical and Electronics Engineers Chairman of the Board, Engineers' Council

Distinguished Engineering Education Achievement Award 1998

Donald S. Ermer, Ph.D., P.E. Mechanical & Industrial Engineering Departments University of Wisconsin at Madison Madison, WI

Distinguished Engineering Education Achievement Award - 1998

by

Dr. John J. Guarrera, PE, FIEEE, FIAE

Director of Research and Sponsored Projects School of Engineering and Computer Science California State University, Northridge, California

to

Dr. Ramin Roosta Professor, Electrical Engineering California State University

Northridge, California



Clarence L. "Kelly" Johnson Memorial Lockheed Martin Skunk Works Award 1997

by

Jack S. Gordon President Lockheed Martin Skunk Works Palmdale, Ca

to

Lt. General George K. Muellner Cprincipal Deputy Assistant Secretary, Aquisition **US** Air Force The Pentagon Washington, DC

Kellv Johnson "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 forty aircraft including the P-38 Lighting, 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 forty 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 Guggenhein 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 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.

> First Presentation was (Pos Accepted by his wife Lt. General James A. Major General Richa Ben R. Rich (Posthur General Joseph W. Ra General Howell M. E

Special Presentation



to Clarence L. "Kelly" Johnson sthumously)			
Nancy	1992		
Fain, Jr., USAF	1993		
ard Scofield, USAF	1994		
mously)	1995		
lalston	1996		
Estes, III	1997		

PAST RECIPIENTS **ENGINEER OF THE YEAR AWARD**

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 Div., Rockwell International 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 Div., Rockwell International 1967 James A. Broadston, Rocketdyne Div., Rockwell International 1968 Dr. Arnold M. Levine, ITT Aerospace 1969 Willis M. Hawkins, Lockheed Aircraft Company 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 H. Green, Lockheed California Company 1975 Mathew C. Ek, Rocketdyne Div., Rockwell International 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 Div., Rockwell International 1981 Ben R. Rich, Lockheed California Company 1982 Dr. Paul B. Mac Cready, President, AeroVironment, Inc. 1983 Charles G. Fargo, Rockwell International 1984 Dr. Malcom Currie, Hughes Aircraft Company 1985 Phillip V. King, PE, FIAE, City of Los Angeles 1986 Sophia K Ashley, Naval Civil Engineering Laboratory, Port Hueneme Dr. Rodney A. Boudreaux, V.P., Engineering, Space Orbitor Div. Rockwell Intl. 1987 1988 George J. Hallinan, V.P., Space Station Power, Rocketdyne Div., Rockwell Intl. 1989 Paul H. Lane, Los Angeles Department of Water and Power 1990 William F. Ezell, V.P., Engineering & Test, Rocketdyne Div., Rockwell Intl. 1991 Edward G. Linhart, President and CEO, EGL Holding Company 1992 Sherman N. Mullin, President, Lockheed Advance Development Company 1993 Robert D. Paster, President, Rocketdyne Div., Rockwell International 1994 Byron K. Wood, V.P., Engineering and Test, Rocketdyne Div., Rockwell Intl. 1995 Jack S. Gordon, President, Lockheed Advanced Development Company, Palmdale, CA 1996 Ernest Schaeffer, President, Schaeffer Magnetics, Inc., Chatsworth, CA 1997 Paul B. Smith, President, Rocketdyne, Canoga PArk, CA

ENGINEER OF THE YEAR AWARD - 1998

Presented by the 1996 Award Recipient

ERNEST SCHAEFFER

PRESIDENT MOOG Schaeffer Magnetics Division Chatsworth, California

ANTHONY JOSEPH SPEAR

Program Manager, Advanced Deep Space System Development Program Jet Propulsion Laboratory/California Institute of Technology Pasadena, CA

Presented by the 1996 Award Recipient

PRESIDENT MOOG Schaeffer Magnetics Division Chatsworth, California

ANTHONY IOSEPH SPEAR

Program Manager, Advanced Deep Space System Development Program Jet Propulsion Laboratory/California Institute of Technology Pasadena, CA

The Recchia Omni Memorial Award

The movies have their Oscars, the television industry has its Emmy and the Engineers' Council presents, for the twenty-fifth 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."

to

Peter Recchia Omni Memorial Award - 1998

ERNEST SCHAEFFER

to

ENGINEERS' COUNCIL

Woodland Hills, California

1998 ENGINEERS WEEK COMMITTEE AND OFFICERS

Dr. Charles K "Chuck" Alexander, P.E., FIEEE, Chairman of the Board

Lloyd W. Higginbotham, FIAE, President, SME, NYAS, ASAE

Dr. John J. Guarrera, P.E., FIEEE, FIAE, Chairman Awards Committee, NSPE, CSPE, IEEE, ASEE, NCGA

Milton D. Garland, Jr., P.E., FIAE, Secretary/Treasurer, CSPE

Roland V. Roggero, P.E., FIAE, Chairman Program Committee, ASHE, CSHE, NFPA, ICBO

Charles C. Olsefsky, P.E., FIAE, Awards Banquet Committee, IEEE

Dr. A. F. "Rick" Ratcliffe, P.E., FIAE, Awards Committee, IEEE

William J. Douthitt, P.E., FIAE, Awards Banquet Committee, SME, CASA, ASSE, CSPE

Walter C. Korp, FIAE, Awards Banquet Committee, SME

Engineers' Council **1997 BOARD OF TRUSTEES***

- Dr. Robert Budica Dr. John J. Guarrera Dr. William F. Hassel Llovd W. Higginbotham Walter Koehler Myron Martin Dr. A. F. Ratcliffe
- James Ritchey Roland V. Roggero Dr. Charles Sanders **Clifford Sheipe Cliff Terry Robert Vaughn**

* Made up of Past Presidents

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PAST RECIPIENTS HONORARY ENGINEER OF THE YEAR AWARD

1969	Edward Reineke
1970	William Lear, Chairma
1971	William F. Rockwell, J
1972	Hon. Donald R. Jackso
1973	Daniel J. Haughton, Cl
1974	Dr. Christopher C. Kra
1975	Burt F. Raynes, Chairn
1976	Grant L. Hansen, Vice Pr
1977	Aaron Cohen, Manage
1978	Dr. David R. Scott, Form
1979	Major General James V
1980	Elmer B. Staats, Comp
1981	Douglas T. Ross, Chair
1982	Ronald Reagan, Presid
1983	Malcolm Baldrige, Uni
1984	James R. Berret, Presid
1985	Len J. Weaver, CEng, H
1986	J. Tracy O'Rourke, Pres
1987	David R. McMurtry, C
1988	Jon Michael Smith, FIA
1989	Programs, NASA Head
1990	Dennis E. Wisnosky, P
1991	Dick Cheney, United S
1992	no presentation
1993	no presentation
1994	Daniel S. Goldin, NAS.
1995	Dr. William J. Perry, U
1996	Dr. William F. Ballhaus
	Lockheed Martin, Beth
1997	Donna Shirley, Jet Prop

an of the Board, Lear Motors, Reno, NV Ir., Chairman of the Board, Rockwell Int. on, Deputy Assistant Secretary, U.S. Air Force Chairman of the Board, Lockheed Aircraft Corp. aft, Jr., NASA, Lyndon B. Johnson Space Center man of the Board, Rohr Industries resident and General Manager, General Dynamics, San Diego, CA er, Orbitor Project, NASA, Lyndon B. Johnson Space Center her Astronaut, President, Scott-Preyss Associates, Inc., L.A., CA W. Stansberry, Washington, D.C. troller General of the United States, Washington, D.C. irman of the Board, SOFTECH, Inc., Waltham, MA dent of the United States uited States Secretary of Commerce dent and CEO, Computervision Corp., Bedford, MA Executive Chairman, Polymark Int., London, England esident, CEO, Allen Bradley Co., Milwaukee, WI Chairman of the Board, Renishaw PLC, England AE, Deputy Assistant Administrator for Commercial dquarters, Washington, D.C. President, Wizdom Systems, Inc., Naperville, IL States Secretary of Defense

SA Administrator, NASA Hqts., Washington, D.C. **Jnited States Secretary of Defense** is, Jr., Corporate V.P., Science & Engineering, hesda, MD Donna Shirley, Jet Propulsion Laboratory/Caltech, Pasadena, CA

MATHCOUNTS 1998

MATHCOUNTS is a National Mathematics Competition sponsored by the National Society of Professional Engineers. The competition is for students from the seventh and eighth grades. A school sends a team of four students and as many as four alternates to the local competition. The team coach is a teacher-volunteer from that school. MATHCOUNTS is an extra-curricular activity for the students and the coach. Study guides and teaching materials are provided to participating schools by the National Society of Professional Engineers.

The team winning the local competition participates in the state competition. A team of very bright students, from individuals competing in the state competition are chosen to represent the state in the national competition in Washington, D.C. This is the thirteenth year for the NSPE MATHCOUNTS PROGRAM.

Local MATHCOUNTS competition is supported by the San Fernando Valley Chapter of the National Society of Professional Engineers (NSPE). Support at the State and National level for the NSPE MATHCOUNTS competition is by major corporations and local business.

THE ENGINEERS' COUNCIL, WOODLAND HILLS, CALIFORNIA RECOGNIZES AND CONGRATULATES THE AWARD WINNERS IN THE 1998 COMPETITION.

IN APPRECIATION

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ASM SAN FERNANDO VALLEY

ASQC SAN FERNANDO VALLEY

BOEING NORTH AMERICAN, ROCKETDYNE DIVISION

CSHE LOS ANGELES CHAPTER

CSPE SAN FERNANDO VALLEY

CSPE SANTA MONICA

C.S.U.N., SECS

GTE GOVERNMENT SYSTEMS

HIGGINBOTHAM ASSOCIATES

IEEE SAN FERNANDO VALLEY

IIE SAN FERNANDO VALLEY

LOCKHEED MARTIN SKUNK WORKS

NORTHROP GRUMMAN B-2 DIV., PICO RIVERA

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