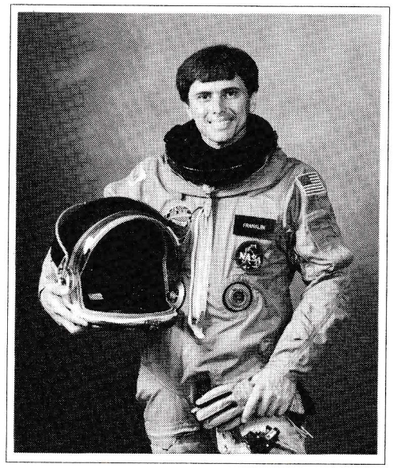
ENGINEERS' COUNCIL

WOODLAND HILLS, CALIFORNIA

1995

HONOR AWARDS GALA
BANQUET
SOUVENIR PROGRAM

DISTINGUISHED
KEYNOTE
SPEAKER



In Celebration of
National Engineers Week

Saturday, February 25, 1995

THE WHITE HOUSE

WASHINGTON

November 21, 1994

Warm greetings to all who are celebrating National Engineers Week, 1995.

If our nation is to be prepared for the challenges of the twenty-first century, we must strive to maintain our place at the forefront of scientific innovation. Continued developments in technology promise to bolster our economy, revolutionize health care, ensure our nation's continued security, protect our fragile environment, and directly benefit Americans in their homes and in the work place.

Our nation's engineers play a vital role in this process, and they can take great pride in their contributions to our country's growth and prosperity. By transforming the latest innovations and the most advanced ideas into realities, they harness the engine of scientific discovery. Indeed, their continued dedication has the potential to help our citizens tomorrow in ways that we are just beginning to imagine today.

I join Americans everywhere in saluting our engineers for their steadfast commitment to progress. Best wishes to all for a memorable week.

Bill Clinton

OFFICE OF THE GOVERNOR
State of California

February 25, 1995

I'm delighted to extend my best regards to all gathered for the Engineer Council's 40th Annual Honors and Awards Gala Banquet celebrating National Engineer's Week.

This event is a unique opportunity for your members to get together, meet others in the field and exchange ideas and information regarding the Council. This annual celebration is perhaps the largest gathering of its kind, and helps to unify the men and women who will be at the forefront of engineering as we enter the next millenium.

Also, there are award recipients tonight whose efforts have helped the council to be a successful and innovative organization. They exulted themselves through hard work and dedication, and, for that, should take great pride.

To all who made this gala a complete success, I salute you. You're helping to ensure that our state's engineers reap the benefits of the great California comeback. Then, in turn, through programs such as Engineers of the World, and Enhance Engineering Education Foundation, you'll have the opportunity to pass along some of your good fortune to others throughout the state.

Please accept my best wishes for a memorable Gala and every future personal and professional fulfillment.

Sincerely,

PETE WILSON

ENGINEERS' COUNCIL
Woodland Hills, California

40th Anniversary

HONORS & AWARDS GALA BANQUET
Saturday, Febuary 25, 1995

☐ **SOCIAL HOUR - 6:00 P.M.**		
☐ **WELCOME - 7:00 P.M.**	**LLOYD W. HIGGINBOTHAM, FIAE** HIGGINBOTHAM ASSOCIATES PRESIDENT, ENGINEERS' COUNCIL	
☐ **SALUTE TO THE FLAG**		
☐ **DINNER**		
☐ **INTRODUCTIONS**	**LLOYD W. HIGGINBOTHAM, FIAE**	
☐ **PRESENTATION OF AWARDS**	**LLOYD W. HIGGINBOTHAM, FIAE**	
☐ **KEYNOTE ADDRESS**		
☐ **CLOSING REMARKS**	**LLOYD W. HIGGINBOTHAM, FIAE**	

Engineers' Council

WOODLAND HILLS, CALIFORNIA

1955 *A Brief History* 1995

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 has 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 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 Memorial 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 Clarence L. "Kelly Johnson Skunk Works Award. The privilege maybe granted annually at the discretion of the Lockheed Patent Counsel.

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

1995 AWARDS & PRESENTATIONS

Special Presentation

William B. Johnson International Interprofessional Founders Memorial Award

by

Dr. John J. Guarrera, PE, FIEEE, FIAE
Director of Research and Sponsored Projects
California State University Northridge
School of Engineering and Computer Science

to

Alan R. "Al" Bjorklund

Facilities Executive
Rockwell International Corporation
Seal Beach, California
President, Narlands Corporation
Div. of Rockwell International Corporation

William B. Johnson International Interprofessional 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 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 Wiliam B. Johnson in 1982.

No further presentations were made until 1990.

George J. Hallinan **1990**
Dr. John J. Guarrera **1991**
Lloyd W. Higginbotham **1992**
Roland V. Roggero **1993**
Norman Shaffier **1994**

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS- 1995

PRESENTED IN ALPHABETICAL ORDER

J. Thomas Anderson
Lockheed Advanced Development Co.
Palmdale, California
"Recognized for his leadership in the area of propulsion flow system design and analysis and his important technical contribution to numerous projects and programs"

Mark Ayres
International Space Station Alpha Power Sys. Controls Software
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding technical leadership for the development of the real-time International Space Station Alpha Electric Power System Simulation Program"

Alexander Brennan
Materials Engineering & Technology Weld. Tech.
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for long term sustained contributions to the art and science of brazing technology"

Randy Brunter
Vehicle Integration Engineer
Northrop Grumman Corporation
Pico Rivera ,California
"Recognized for being responsible for the successful build, lab checkout and flight test of all Navy missiles and the Tri-Service Standoff Attack Missiles (TSSAM)."

Frederick Dodd
Adv. Comb. Devices
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding contributions in the field of propulsion system injection and combustion stability"

Michael Eneberg
Lockheed Advanced Development Co.
Palmdale, California
"Recognized for his innovative approach in the operation and utilization of stereolithography manufacturing process and the programs it supports"

Steven P. Ericson
Senior Design Specialist
Lockheed Advanced Development Co.
Palmdale, California
"Recognized for his exceptional achievements in innovative aircraft design and construction process and for expanding the horizons of youth and community members through his presentations of the engineering and technical aspects of aviation"

John Fish, Ph. D.
Structures
Lockheed Advanced Development Co.
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Timothy L. Heaps
International Space Station Alpha Orbital Replacement Units & Components
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding contributions to the design and development of the International Space Station Alpha "Common Controller""

Mike Hess
Quality Assurance
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Glen Hull
Materials and Processes
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Janet K. Ives
Advanced Propulsion Systems
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding contributions in the field of Reusable Launch Vehicle Propulsion system analysis"

Jagadish Kariyappa
Manufacturing Engineer
Trans Gigm, Inc.
Los Angeles, California
"Recognized for displaying superior expertise in manufacturing processes, cost effective estimates and optimizing man-hour utilization"

John E. Keba
Rotating Machinery Mechanical Elements
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding contributions to the design, development and testing of fluid film bearings"

Walter C. Korp
Treasurer, SME Chapter 099
Chatsworth, California
"Recognized for long time dedicated support of the engineering community"

E.K. "Ernie" Lee
Expendable Launch Vehicle Engines
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding engineering leadership for the upgraded Atlas IIAS Expendable Launch Vehicle engines"

Frank F. Lee
Expendable Launch Vehicle/Peace Keeper
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for long term sustained dedication to the structural reliability of Rocketdyne propulsion systems"

James D. Lemasters
CATIS Lead Engineer
GTE Government Systems Corp.
Westlake Village, California
"Recognized for superior performance in integrating Joint Services Information Processing System(JSIPS) requirements into the new Intelligence Exploitation Support System (IESS) Architecture"

David L. Leonard
Kinetic Energy Weapons/THAAD Engrg
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for advancements in the field of miniaturized mono-propellant satelite propulsion systems"

James N. Lewis
Safety/Reliability Engineering
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for long term contributions to the field of propulsion system quality, reliability and system safety"

Myroslaw "Mark" Marko
Advanced Power Systems
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for oustanding contributions to the design and development of solar power technology"

Chris Manyard
Producibility
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Mike McCrea
Electromagnetics
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

William K. Ng
Integrity
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Kimberly E. O'Rourke
Environmental Health & Safety
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding contributions and leadership in the field of Hazardous Materials Elimination"

Ronald A. Ramos
Kinetic Energy Weapons
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for his significant contributions to the development of advanced expendable launch vehicle propulsion systems"

Mark D. Repasky, P.E.
Consulting Engineer
"Recognized for his engineering contributions in Math Count, promotion of engineering concepts and the support for the Unique Start Child Care Foundation"

James D. Revell, Ph.D.
Program Manager Principal Investigator
CRAD Programs for NASA
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his contributions to engineering through his pioneering research in the field of aircraft acoustic detection"

Al Reyes
Manufacturing
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Dace E. Richardson
Advanced Manufacturing
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for outstanding technical achievement and leadership in pursuit of advanced manufacturing capability"

Jordan L. Rosengard
Scientist
Electro-Optical Data Systems Group
Hughes Aircraft Company
El Segundo, California
"Recognized for 40 years of professional meritorious achievements within the field of materials/corrosion engineering"

C. Russell Schaffer
Senior Hardware Development Engineer
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his leadership in turning abstract concepts into producible hardware through the automated manufacturing process of stereolithography and his outstanding contributions to numerous programs with this process"

Jon Sharp
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the field of engineering through his innovative aircraft design and construction processes, award winning air racing skills and numerous civic presentations promoting aviation, science and composites media"

Tarek Shraibati
Professor
California State University Northridge, Engineering & Computer Science
Northridge, California
"Recognized for his over 10 years of outstanding professional qualities and meritorious achievements within the field of materials engineering education and his promotion of A.S.M., SFV Chapter"

Dallas Smith
Design
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Victor Toy
RMS & T
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Jim Valentine
Weights
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Tom Vanderbrug
Thermodynamics
Lockheed Advanced Development Company
Palmdale, California
"Recognized for his outstanding contributions to the success of the **F-22** Integrated Forebody Team Effort"

Brad Ward
President
Ward Enterprises
Glendale, California
"Recognized for long time dedicated support of the engineering community"

Margaret B. Weber
Total Quality Management Office
Rocketdyne Div., Rockwell International
Canoga Park, California
"Recognized for advancing the state-of-the-art in Continuous Process Improvement Statistical Process Control Methodologies"

OUTSTANDING ENGINEERING SERVICE MERIT AWARD - 1995

James S. Beitzel, CQE

John B. Cameron

Diane Kulisek

Angel Luna, CQE

William J. Bellows, Ph.D.

Zhaofeng Huang CQE, CRE

Chin-Wen Lin, Ph.D., CQE

James N. Sullivan, CQE

" Recognized for the design, development and implementation of a professional-level Quality Engineer Certification Program at Rocketdyne Div., Rockwell International"

DISTINGUISHED COMMUNITY SERVICE AWARD - 1995

Alex Retana
Supplier Performance & Assesments
Rocketdyne Div., Rockwell International
Canoga Park, California

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS - 1995

F-22 INTEGRATED FOREBODY (IFB)

Mark F. Miller
Lockheed Advanced Development Company
Palmdale, California

ROOF FLAP

Gary Nelson
Nascar, Inc.

TWILIGHT ZONE TOWER OF TERROR

Arthur Henderson
Vice President of Engineering
Walt Disney Imagineering
Glendale, California

DISTINGUISHED ENGINEERING EDUCATOR OF THE YEAR AWARD - 1995

Sembiam R. Rengarajan, Ph. D.
Professor, Department of Electrical and Computer Engineering
California State University Northridge
School of Engineering and Computer Science
Northridge, California

DISTINGUISHED ENGINEERING ACHIEVEMENT AWARDS

1995

Robert Gary Belie, Ph. D.
Technical Fellow
Lockheed Advanced Development Co.
Palmdale, California

Elfreda T. Chang, Ph.D.
Engineering Specialist Rocket Propellant Chemistry
The Aerospace Corporation
El Segundo, California

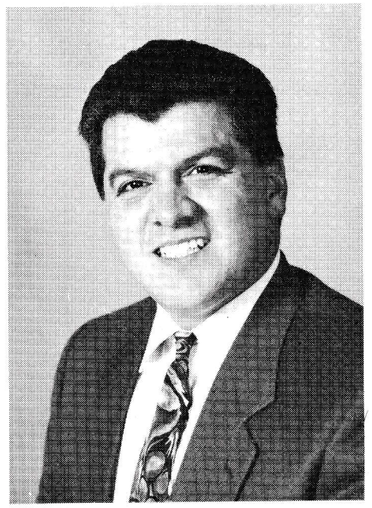
Robert C. Goetz
Vice President, Engineering
Lockheed Advanced Development Co.
Palmdale, California

Wilford F. Wong, Ph.D.
Principal Engineer
Northrop Grumman Corp. B-2 Div.
Pico Rivera, California

Engineers' Council, Inc. **1995 Award Recipients**

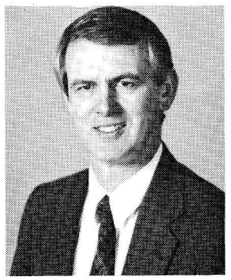
Rocketdyne Congratulates

Distinguished Community Service Award

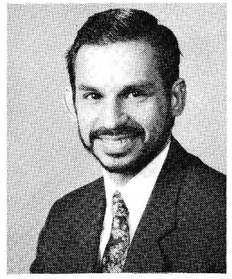


Alexander S. Retana
Senior Quality Assurance Technical Analyst
Procurement - Quality Assurance

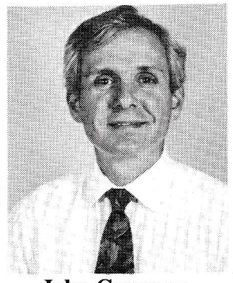
Outstanding Engineering Service Merit Awards



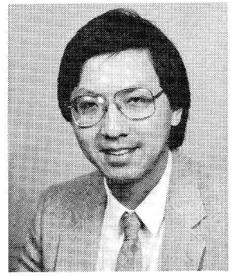
James Beitzel
Manager
Space Shuttle Main Engine System Safety



William Bellows, Ph.D.
Senior Member of Technical Staff
Total Quality Management

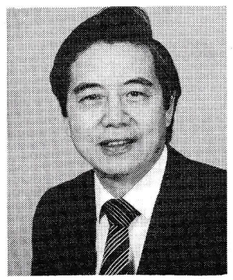


John Cameron
Member of Technical Staff
Space Shuttle Main Engine System Stress Analysis Engineering

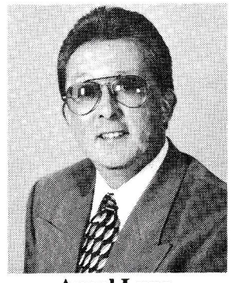


Zhaofeng Huang
Member of Technical Staff
Space Shuttle Main Engine Reliability Engineering

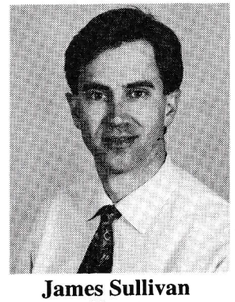
Diane Kulisek
Quality Assurance Associate Product Manager
Space Shuttle Main Engine Avionics & Controls



Chin-Wen Lin, Ph.D.
Senior Engineering Specialist
Technology, Performance Analysis & Applied Fluid Dynamics Engineering

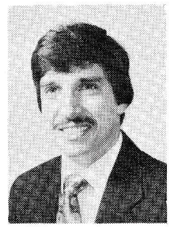


Angel Luna
Senior Technical Analyst
Procurement Quality Engineering

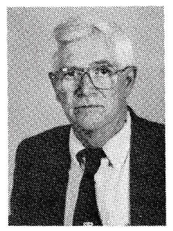


James Sullivan
Manager
Technical & Administrative Support, International Space Station Alpha Program Engineering

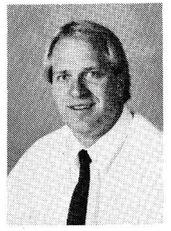
Outstanding Engineering Merit Awards



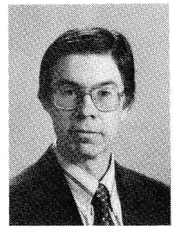
Mark Ayres
Member of Technical Staff
International Space Station Alpha Engineering



Alexander Brennan
Manager
Brazing Technology & Producibility, Materials Engineering & Technology

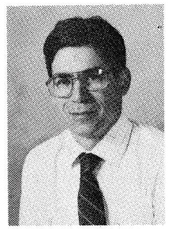


Frederick Dodd
Member of Technical Staff
Advanced Combustion Devices Engineering

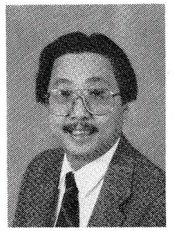


Timothy Heaps
Member of Technical Staff
International Space Station Alpha Engineering

Janet K. Ives
Member of Technical Staff
Advanced Propulsion Systems Engineering

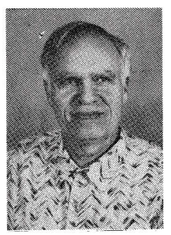


John Keba
Member of Technical Staff
Advanced Rotating Machinery Engineering

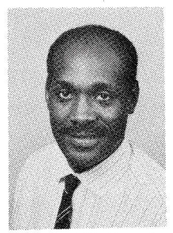


Ernest Lee
Project Engineer
Expendable Launch Vehicle Production Engineering

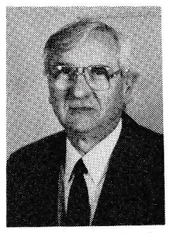
Frank Lee
Manager
Expendable Launch Vehicle Structural Analysis



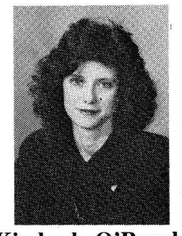
David Leonard
Senior Project Engineer
Kinetic Energy Weapon Engineering



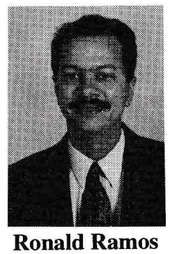
James N. Lewis
Member of Technical Staff
Safety Reliability Maintainability and Quality Engineering



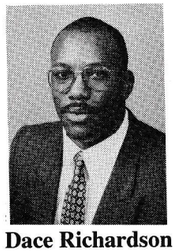
Myroslaw Marko
Principal Engineering Specialist
Advanced Power Engineering



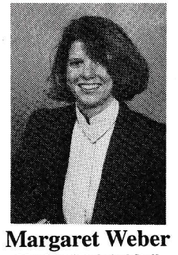
Kimberly O'Rourke
Member of Technical Staff
Environmental Health & Safety Engineering



Ronald Ramos
Chief Project Engineer
Theater High Altitude Area Defense (THAAD) Engineering



Dace Richardson
Manager of Process Optimization
Advanced Manufacturing Engineering



Margaret Weber
Member of Technical Staff
Total Quality Management Office

Special Presentation

Brigadier General Charles E. (Chuck) Yeager
International Aeronautical Achievements Award 1995

—— by ——

Edward C. "Pete" Aldridge, Jr., CEO
THE AEROSPACE CORPORATION
El Segundo, California

—— to ——

Franklin Chang Diaz, Astronaut
NASA Johnson Space Center
Houston, Texas

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,OOO 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.

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

Special Presentation

Clarence L. "Kelly" Johnson
Memorial Lockheed Skunk Works Award 1995

—— by ——

Robert C. Goetz
Vice President, Engineering
Lockheed Advanced Development Co.
Palmdale, California

—— to ——

Ben R. Rich
President Emeritus
Presented Posthumously
Lockheed Advanced Development Co.
Palmadale, California

Kelly 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. Airforce. 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 technolgy 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 to Clarence L. "Kelly" Johnson (Posthumously)
Accepted by his wife Nancy 1992

Lt. General James A. Fain, Jr.,USAF 1993

Engineer Of The Year Award - 1995

Presented by the 1994 Award Recipient

BYRON K. WOOD
VICE PRESIDENT OF ENGINEERING AND TEST
Rocketdyne Div., Rockwell International
Canoga Park, California

—— to ——

JACK S. GORDON
President
Lockheed Advanced Development Company
Palmdale, California

Peter Recchia Omni Memorial Award - 1995

Presented by the 1994 Award Recipient

BYRON K. WOOD
VICE PRESIDENT OF ENGINEERING AND TEST
Rocketdyne Div., Rockwell International
Canoga Park, California

—— to ——

JACK S. GORDON
President
Lockheed Advanced Development Company
Palmdale, California

The Peter Recchia Omni Memorial Award

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

HONORARY ENGINEER OF THE YEAR

KEYNOTE SPEAKER

ENGINEERS' COUNCIL
Woodland Hills, California

1995 ENGINEERS' WEEK COMMITTEE AND OFFICERS

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

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

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

Milton D. Garland, Jr., PE, FIAE, Secretary/Treasurer, CSPE

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

Charles C. Olsefsky, PE, FIAE, Awards Banquet Committee, IEEE

Waldon R. Burr, FIAE, Awards Banquet Committee, ISA, ASQC

Dr. A. F. Ratcliffe, PE, FIAE, Awards Banquet Committee, IEEE

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

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

Dr. Eric Pitts, P.E., FIAE, Awards Banquet Committee, CASA, RI, SME

James Ritchey, FIAE, Awards Banquet Committee, IIE

Brad Ward, Awards Banquet Committee, SME, IIE

ENGINEERS' COUNCIL

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James Ritchey
Roland V. Roggero
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Cliff Terry
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* Made up of Past Presidents

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. Roadston, 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. MacCready, 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
1987 Dr. Rodney A. Boudreaux,V.P. Engineering,Space Orbitor Div. Rockwell Intl.
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 International
1991 Edward G. Linhart, President and CEO, EGL Holding Company
1992 Sherman N. Mullin, President, Lockheed Adavance Development Company
1993 Robert D. Paster, President, Rocketdyne Div., Rockwell International
1994 Byron K. Wood, V.P. Engineering and Test, Rocketdyne Div., Rockwell International

PAST RECIPIENTS
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 Int.
1972 Hon. Donald R. Jackson, Deputy Assistant Secretary, U.S. Air Force
1973 Daniel J. Haughton, Chairman of the Board, Lockheed Aircraft Corp.
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, Orbitor Project, NASA, Lyndon B. Johnson Space Center
1978 Dr. David R. Scott, Former Astronaut, President, Scott-Preyss Associates, Inc., L.A., 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. Berret, President and CEO, Computervision Corp., Bedford, MA
1985 Len J. Weaver, CEng, Executive Chairman, Polymark Int., 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, Washinton, 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
1993 Daniel S. Goldin, NASA Administrator, NASA Hqts., Washington, D.C.
1994 Dr. William J. Perry, United States Secretary of Defense

MATHCOUNTS 1995

MATHCOUNTS is a National Mathematics Competition sponsored by the National Society of Professional Engineers. The competition is for students from the seventh and eight grade. 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 twelfth 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 1995 COMPETITION.

IN APPRECIATION

AIAA SAN FERNANDO VALLEY
ASM SAN FERNANDO VALLEY
ASQC SAN FERNANDO VALLEY
CSHE LOS ANGELES CHAPTER
CSPE SAN FERNANDO VALLEY
CSPE SANTA MONICA
C.S.U.N., E & C.S.
GTE GOVERNMENT SYSTEMS
HIGGINBOTHAM ASSOCIATES
IEEE SAN FERNANDO VALLEY
IIE SAN FERNANDO VALLEY
JET PROPULSION LABORATORY
LOCKHEED ADVANCED DEVELOPMENT CO.
NASA
NORTHROP GRUMMAN B-2 DIV., PICO RIVERA
NORTHROP GRUMMAN CORP., HAWTHORNE
ROCKETDYNE DIV., ROCKWELL INT.
ROLAND ROGGERO ASSOCIATES
SME CHAPTER 099
SME CHAPTER 173
SME REGION 012
SOCIETY OF WOMEN ENGINEERS
UNIVERSAL HEALTH SERVICES
WESTLAKE MEDICAL CENTER

THE TEXT OF THE SOUVENIR PROGRAM FOR THE 1995 ANNUAL ENGINEERS' COUNCIL HONOR AWARDS GALA BANQUET HAS BEEN COMPUTER GENERATED THROUGH THE COURTESY OF THE FACILITIES MANAGEMENT DIVISION, WESTLAKE MEDICAL CENTER
WESTLAKE VILLAGE, CALIFORNIA

CONGRATULATIONS

Engineers' Council
Woodland Hills, California
1995

Engineer of the Year

Jack S. Gordon

Distinguished Engineering Achievements Award

Robert Gary Belie
Robert C. Goetz

Engineering Project Achievement Award

John Fish
Chris Maynard
Bill Ng
Vic Toy
Mike Hess
Mike McCrea
Al Reyes
Jim Valentine
Glen Hull
Mark Miller, Lead
Dallas Smith
Tom Van Derbrug

Outstanding Engineering Achievements Merit Award

J. Thomas Anderson
James D. Revell
Mike Eneberg
C. Russell Shaeffer
Steve Ericson
Jon Sharp

Discover "E" National Engineers Week 1995

ENGINEERS
Turning Ideas Into Reality®
NATIONAL ENGINEERS WEEK®
FEBRUARY 19-25, 1995

A Metal To Remember

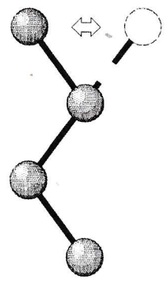
Engineers are always looking for special materials that can solve design problems. In the early 1960's, an alloy of titanium and nickel was discovered by the Naval Ordinance Laboratory that was very strange. It appeared to have a memory! A Straight wire made of this alloy could be twisted into a pretzel. When heated up, it would magically straighten out! The alloy turned out to be what is called a "Shape Memory Alloy", or "SMA". The Strange behavior is called the "Shape Memory Effect".

There are many practical uses for SMAs. All of the hydraulic tubing on the Navy's F-14 Tomcats are connected using SMA couplings. Extremely flexible eyeglass frames are made of SMA which is in the high temperature form at room temperature. Wires made of SMA will contract as much as eight percent of their total length when heated, so they can produce life-like motion without using gears or motors - great for robots and models!

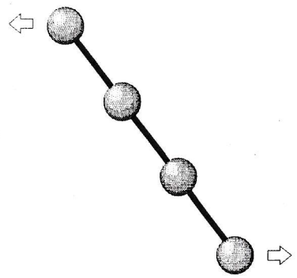
How it Works

Here is a simple way of explaining how a Shape Memory Alloy works:

- At room temperature, all the bond between atoms in a Shape Memory Alloy are easily flip-flopped from one side to the other, making the material pliable and easily bent.



- When you pull the scorpion tail back, the wire stretches and all of the bonds between the atoms get flipped it the same direction.



- When the wire is heated, all the bonds forcibly line up in a straight line - the high-temperature form of SMA. The wire contracts to its original shorter length.