

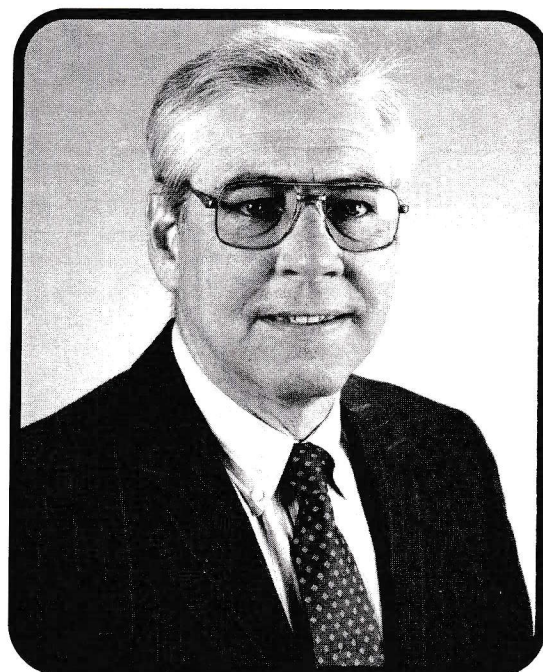
ENGINEERS' COUNCIL



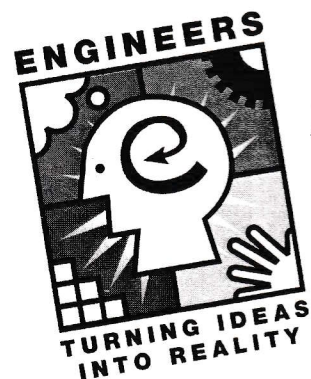
Woodland Hills, California

44th Anniversary Honors and Awards Gala Banquet Souvenir Program

Saturday, February 27, 1999



Engineer of the Year: Robert Goetz
Vice President Engineering
Lockheed Martin Skunk Works
Palmdale, CA



*In Celebration of
National Engineers Week
February 21-27, 1999*

THE WHITE HOUSE

WASHINGTON, D.C.

December 19, 1998

Warm greetings to everyone observing National Engineers Week, 1999.

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 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.

CONGRATULATIONS

Engineers' Council
Woodland Hills, California
1999

Engineer of the Year - 1999
Robert C. Goetz, Vice President -Engineering
Lockheed Martin Skunk Works

Clarence L. "Kelly" John Memorial
Lockheed Martin Skunk Works Award 1999
Natalie W. Crawford
V.P. & Director, Project Air Force, Rand Corp

Engineering Project Achievement Award, Project Managers

Andrew Adams
Bob Barham
Robert Clanton
Ron Deutschman
Dennis Fernandez
Gary Kunitake
Howard Lee
Light Speed Project
Jon Sharp
James W. Stolting
Ron Williams (Sverdrup Technology)
Scott Winship

Outstanding Engineering Achievement Merit Awards

Scott Ames
Jack Baas
Herand Bedrossian
Jeff Beranek
Kirk Cassidy
Kenneth Chiatovich
Jim Eshleman
Allen Goforth
John B. Kalisz
Peter Law
Tom Mahone
William Schneider
Xavier Simon
Long Tang
John Vinson

LOCKHEED MARTIN 



ENGINEERS' COUNCIL

Woodland Hills, California

44th Anniversary

HONORS & AWARDS GALA BANQUET

Saturday, February 27, 1999

- SOCIAL HOUR - 6:00 P.M.
 - WELCOME - 7:00 P.M. DR. LAURENCE S. CARETTO
DEAN OF ENGINEERING
CSUN, CECS
NORTHRIDGE, CA
 - SALUTE TO THE FLAG
 - INTRODUCTIONS LLOYD W. HIGGINBOTHAM, FIAE
 - DINNER
 - SPECIAL IEEE PRESENTATION FERNANDO CALDERON
 - SPECIAL PRESENTATION DR. JOHN J. GUARRERA
DIRECTOR RESEARCH PROGRAMS
CSUN, CECS
NORTHRIDGE, CA
 - PRESENTATION OF AWARDS STEVE BERROTH
NORTHROP GRUMMAN CORPORATION
TIMOTHY J. HANNEMAN
THE BOEING COMPANY
 - CLOSING REMARKS LLOYD W. HIGGINBOTHAM, FIAE
-

ENGINEERS' COUNCIL

WOODLAND HILLS, CALIFORNIA

1955

A Brief History

1999

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 29 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.

1999 AWARDS & PRESENTATIONS *Special Presentation*

*William B. Johnson International Inter-professional
Founders Memorial Award*

by

Dr. John J. Guarrera
Director Research Programs
CSUN, CECS
Northridge, CA

to

Sherman N. Mullin
President Emeritus
Lockheed Martin Skunk Works
Palmdale, CA

*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.

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	Roland V. Roggero 1993	
Norman Shaffier 1994	Alan R. "Al" Bjorklund 1995	Jack L. Ferrell 1996	Byron K. Wood 1997	Jim Albaugh 1998

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),
1999 Special High School Student Paper Contest Presentations



The IEEE LAC PES, LAC IAS, and OCC PES/IAS Chapter,
Working together for a brighter future!

The 1999 IEEE LAC/OC PES and IAS College Student Paper Contest

The IEEE LAC PES, LAC IAS, and OC PES/IAS Chapters are honored to present plaques and monetary awards to the winners of the 1999 IEEE LAC-OC PES and IAS College Student Paper Contest.

Ted Gormley - Electrical Engineering Student, California State Polytechnic University Pomona
Eric Mutch - Electrical Engineering Student, California State Polytechnic University Pomona
Raul M. Perez - Electrical Engineering Student, California State Polytechnic University Pomona
Phonekeo Sisavath - Electrical Engineering Student, California State Polytechnic University Pomona

Sincerely,
Bill Brownell, Chair IEEE-IAS Los Angeles Council Chapter
Larry Dalton, Chair IEEE-PES Los Angeles Council Chapter
Doug Effenberger, Chair IEEE-PES/IAS Orange County Chapter

Special Thanks to:
Dr. Richard Cockrum, Mathew Collins, Kirby Holte,
John Hormozi, Keith Johnson, Don Larid, Dr. Art Sutton,
Cash Sutton, and Phil Wheeler

The First IEEE Bio-Tech Applications Contest

Sponsored by the IEEE Los Angeles Council Coordinating Society Chapters: IEEE Chapters of Engineering in Medicine and Biology Chapter, Circuits and Systems/Electron Devices Joint Chapter, and Communications/Signal Processing Joint Chapter

Contest Theme: To develop and present a concept using Electrical, Electronic, Biomedical, and/or Electro-Optics to assist a person's disability - or to improve a person's ability to manage tasks that usually require assistance.

Renato L.M. de Azevedo - Dept. of Aerospace Engineering Student, California State University Long Beach
For presentation of a working prototype "Electronic Device for the Blind"

Amy Thompson - Electrical/Biomedical Engineering Student, California State University Long Beach
For presentation "Emergency Response Support System for Ventilators"

James Wang - Electrical and Computer Engineering Student, California State Polytechnic University Pomona
For presentation "Implementing a Voice Recognition Elevator Control System"

Special Thanks to: Ray Adams, Professor David Braun, Professor Richard Cockrum, Larry Dalton, Professor Chris Druzgalski, Professor Maryam Moussavi, and Professor Art Sutton

1999 National Engineers Week Future City Los Angeles Regional Competition

Sponsored by The Boeing Company, Rockwell, The Gas Co., P2S Engineering, Inc., The Institute of Industrial Engineers,
The Institute of Electrical and Electronic Engineers, Inc.

Please join us in honoring these students. All supporters, sponsors, and IEEE are honored to present certificates of achievement to the 2nd and 3rd place winning student teams of the 1999 National Engineers Week Future City Los Angeles Regional Competition.

(The first place team is in Washington D.C., representing our region at the National Competition)

1st Place Student Team

St. Lawrence the Martyr School, Redondo Beach, CA
Students - Caroline Olsovsky, Michael Stevenson, and John Roberts
Teacher - Gail Rodono
Volunteer engineer mentor - Alexia Nalewaik

2nd Place Student Team

Long Beach Hughes Middle School, Long Beach, CA
Students - Julia McKinney, Dina Thai, and Rebecca Hough
Teacher - Dado Mar
Volunteer engineer mentor - Robert Diprimio

3rd Place Student Team

Chaparral Middle School, Diamond Bar, CA
Students - Herrick Chang, Charles Ha, and Tanveer Razzaqui
Teacher - Larry Rodgers
Volunteer engineer mentor - Timothy Thompson

Special Thanks to The Boeing Company for their generosity and continual support for local student programs.



1999 Los Angeles DWP Science Bowl First Place Team

Sponsored by The Boeing Company, The Gas Company, The Los Angeles Dodgers, and The Los Angeles Department of Water and Power

The Los Angeles Department of Water and Power and IEEE are honored to present certificates to the students and coach of the winning team of DWP-sponsored Los Angeles city regional contest. This team will represent our region at the National Science Bowl coordinated and sponsored by the U.S. Department of Energy. The DWP Science Bowl Teams won National Champion titles in 1995 through 1997, and won 2nd place National title in 1998.

1st Place National Champion 1995, Van Nuys High School
1st Place National Champion 1996 & 1997, Venice High School
2nd Place National Title 1998, North Hollywood High School

Good Luck to the 1999 DWP Science Bowl Champions at the National Science Bowl.

1999 JPL Regional Science Bowl First Place Team

Sponsored by The Boeing Company, Doubletree Hotel, Eurest Dining Services, Foothill Trophy, Jet Propulsion Laboratory, Knott's Berry Farm, Learning Curve International, Inc., Long Beach Aquarium of the Pacific, National Aeronautics and Space Administration, U.S. Department of Energy, and Southern California Edison.

Southern California Edison and IEEE are honored to present certificates to the students and coach of the winning JPL-sponsored team of The 1999 Jet Propulsion Laboratory regional contest. This team will represent our region at the National Science Bowl coordinated and sponsored by the U.S. Department of Energy.

Good Luck to the 1999 DWP Science Bowl Champions at the National Science Bowl.

Congratulations to the 1999 IEEE Fellows! For Achievements and Advancements in Electronics and Electrical Engineering

Mohammed Dahleh, University of California Santa Barbara
For contributions to robust control theory and the introduction of control methods to microscale technology

Michel C. Dubois, University of Southern California Los Angeles
For contributions to the design of high-performance multiprocessor systems

Dan Michael Goebel, Hughes Electronics
For advancements in plasma sources and technology for pulsed-power switches and microwave sources

Jean-Luc Gaudiot, University of Southern California Los Angeles
For contributions to the programmability and reliability of data flow architectures

John A. Higgins, Rockwell International Science Center
For contributions to development of GaAs transistor technologies for microwave and high-speed integrated circuits

John Huang, Jet Propulsion Laboratory - Caltech
For contributions to the development of microstrip antennas for spacecraft and ground mobile applications

Rajeev Jain, University of California Los Angeles
For contributions to computer-aided design tools for signal processing circuits

Chung-Chieh Kuo, University of Southern California Los Angeles
For contributions to multiresolution techniques with applications to multimedia signal processing

Christopher Patrick Silva, The Aerospace Corp.
For contributions in the application of nonlinear circuits and systems theory to communications signal processing

Dwight Christopher Streit, TRW Redondo Beach
For contributions to the development and manufacturing of heterojunction materials and devices

Pyotr Yakovlevich Ufimtsev, Northrop Grumman Corp.
For origination and development of the "Physical Theory of Diffraction," used in antennas and scattering problems

Jakob Johannes Van Zyl, Jet Propulsion Laboratory
For contributions to the theory, implementation, and calibration of Synthetic Aperture Radar systems

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS – 1999

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

PRESENTED IN ALPHABETICAL ORDER

Omar Aboutalib, Ph.D.
Northrop Grumman Corporation
Pico Rivera, CA

Bernie Adamson
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Scott Edward Ames
Lockheed Martin Skunk Works
Palmdale, CA

Allen A. Arata
Northrop Grumman Corporation
Pico Rivera, CA

Jack P. Baas
Lockheed Martin Skunk Works
Palmdale, CA

Herand Bedrossian
Research & Dev. Engineer
Lockheed Martin Skunk Works
Palmdale, CA

Nagwa Bekir, Ph.D.
Dept. of Electrical & Computer Engineering
CSUN, CECS
Northridge, CA

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

Bruce Berteau
Materials Engineer
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Kirk Bevis Cassidy
Senior Research Specialist
Lockheed Martin Skunk Works
Palmdale, CA

Kenneth Chiatovich
Lockheed Martin Skunk Works
Palmdale, CA

Merton Campbell Crockett
GTE Government Systems Corporation
Thousand Oaks, CA

James Edward Eshleman
Flight Sciences Lead Engineer
Lockheed Martin Skunk Works
Palmdale, CA

Lawrence Gendernalik
Project Engineer
GTE Government Systems Corporation
Thousand Oaks, CA

Edward Allan Goforth
Lockheed Martin Skunk Works
Palmdale, CA

Robert W. Hayes
Director of Research & Development
Metal Technology Inc.
Northridge, CA

Patrick M. Hurdle, Ph.D.
Acoustic Engineering Focal Point
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Stephen Hurlock, Ph.D.
High Energy Laser Expert
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Jerry Jackson
Key Tech Member SSME Controller
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

John Burton Kalisz
Lead Designer/Technical Fellow
Lockheed Martin Skunk Works
Palmdale, CA

Peter V. Law
Lockheed Martin Skunk Works
Palmdale, CA

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 1999

Michael Limcaco
Engineer
GTE Government Systems Corporation
Thousand Oaks, CA

Thomas H. Lynch
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Thomas Mahone
Lockheed Martin Skunk Works
Palmdale, CA

Dr. Atul Mathur
Process Leader of Aerothermodynamics
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Calvin Q. Morrison, Jr.
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Rod Murufas, Ph.D.
Principal Engineer
Northrop Grumman Corporation
Pico Rivera, CA

Dean J. Nunez
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Aminta Rodriguez
GTE Government Systems Corporation
Thousand Oaks, CA

William F. Sack
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

William F. Schneider
Lockheed Martin Skunk Works
Palmdale, CA

Sidney H. Schwartz, Ph.D.
CSUN, CECS
Northridge, CA

Xavier Simon
Lockheed Martin Skunk Works
Palmdale, CA

Kenneth J. Slusser
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Sassan Sobhani
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Craig K. Tang
Lead System Design Engineer X-33 XRS-2200 LAE
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Long Tang
A4AR Argentina AF Modifications
Lockheed Martin Skunk Works
Palmdale, CA

Deborah Van Alphen, Ph.D.
Department of Electrical & Computer Engineering
CSUN, CECS
Northridge, CA

John W. Vinson
Lockheed Martin Skunk Works
Palmdale, CA

Rick Wasson
Principal Engineer
Northrop Grumman Corporation
Pico Rivera, CA

Kenneth J. Wiles
RS-68 Test Lead
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Fred Williams
Principal Engineer
Northrop Grumman Corporation
Pico Rivera, CA

Martha P. Willis
Measurement & Control Systems Engineer
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

DISTINGUISHED ENGINEERING ACHIEVEMENT AWARDS - 1999

Daniel R. Adamski

SSME Chief Program Engineer
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Robert E. Biggs

The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Christopher P. Greek

Deputy Director Engineering F-117A (C1F)
United States Air Force
Edwards AFB, CA

Sandeep Gulati, Ph.D.

Supervisor, Ultracomputing Tech. Group
NASA/Jet Propulsion Laboratory
Pasadena, CA

Ronald A. Ramos

Chief Program Engineer
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Larry E. Sack

Director Engineering Operations
The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Paul F. Seitz

Airtech Engineering
Tarzana, CA

Gary M. Snyder

Chief Engineer
The Metropolitan Water District of Southern California
Los Angeles, CA

Scott Stanley

Moog Inc., Schaeffer Magnetics Division
Chatsworth, CA

Ping Wong

Manager Avionics & Electrical Design
Northrop Grumman Corporation (ISAS)
El Segundo, CA

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS - 1999

ASQ Certified Engineer Refresher Course Project

Program Manager

John Schneider

The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Team Members

Bill Bellows	Zhao Huang	Pat O'Kelley
John Cameron	Gordon Johnson	John Peterson
Tim Higgins	Sung-Soon Kim	Michael Shinsel
	Angel Luna	

B-2 Low Observable Maintainability Improvement Project

Program Manager

Ron Rogers

Manager - B-2 Structures
Northrop Grumman Integrated Systems & Structures
Palmdale, CA

Team Members

Elliott M. Brown	Bret A. Keltner	Jarrett D. Sadowsky
Lance N. Bryant	In S. Kim	William S. Speck
Thomas E. Hughes	Thomas J. Morrison	J. Mark Storey
Andrew M. Jakubek	Charles G. Osberg	Erik J. Torgeson
Patricia Jones	Richard K. Pemberton	Peter R. Tupper

Caltrans District 7 Upgraded Transportation Management Center Project

Program Manager

Pat Perovich

Chief - Traffic Operations/Office of ITS Development
Caltrans District 7
Los Angeles, CA

Team Members

Jim Kerr Carson Lee Peter G. Luelsdorf, AIA

Darkstar Design Project

Program Manager

James W. Stolting Jr.

Air Vehicle Integrated Product Team Manager
Lockheed Martin Skunk Works
Palmdale, CA

Team Members

James R. Daniell Jr.	Randolph L. McCall
Carl T. Elving	Anthony D. McKinney
Michael E. Hendrie	

Darkstar (T-III Minus) Flight Test Team Project

Program Managers
Bob Barham
Dennis Fernandez
 Lockheed Martin Skunk Works
 Palmdale, CA

Global Imager (GLI) Scanner Assembly Project

Program Manager
Keith Kelly
 Program Manager Global Imager (GLI) Scanner Assembly
 Moog Inc., Schaeffer Magnetics Division
 Chatsworth, CA

Team Members

Steven Demro	Brian Powers	William Skresvig
Thomas Koprowski	Chris Scott	Jim Walker
Erwin Mercado	Nancy Sipich	Lily Yan
Ruben Nalbandian		Mitch Zoren

JASSM Composite Project

Program Manager
Robert L. Clanton
 JASSM Composite Project Manager
 Lockheed Martin Skunk Works
 Palmdale, CA

Team Members

Rob Bailey	Bill Ireland	Jim Schroeder
Ken Bradley	Mac McClelland	Scott Van Weelden
Mike Brennan	Charles Pickett	Jerry Waller
Steve Ericson	Mike Pohlig	John Woody
Gene Glinecki		Drew Yuhas

Joint Strike Fighter Integrated Flight Propulsion Control Project

Program Manager
Scott Winship
 X-35 IFPC and Air Vehicle Integration Lead
 Lockheed Martin Skunk Works
 Palmdale, CA

Team Members

Raj Ajodha	Oscar Chiodi	Jim Winner
Ed Burnett	John Kalisz	Wilford L. "Bill" Wood
Steve Caldwell	Tom Mahone	Steve Wurth
	Gerald Parry	

*Distinguished Engineering and Sciences Research Project Award
 Laser Interferometer Gravitational Wave Observatory (LIGO) Project*

Program Manager
Gary Sanders, Ph.D.
 Project Manager
 California Institute of Technology
 Pasadena, CA

Light Speed Project

Lockheed Martin Skunk Works
 Palmdale, CA

Team Members

Scott Ames	Ken Gousman	Karen Mark	Robert Shannon
Bev Anderson	Heather Greasley	Saul Martinez	Xavier Simon
Steve Beckey	Craig Hansen	Judy McClure	Mark Smith
Ken Bordignon	Jean Healy	Jennifer Munro	Jeff Sneller
Jim (JB) Brown	Matt Hederstrom	Nick Papayianis	Mike Swanson
Ed Burnett	Lena Hederstrom	Anthony Reil	Thomas Swift
John Carter	Brian Hershberger	Frank Rodgers	Tom Taylor
Mike Carter	Leonard James	Paul A. Rosales	Bonnie Van de Houten
Atherton Carty	Richard Janus	Walt Satalino	David Watson
Mike Ernich	Steve Justice	Eric Schrock	Jason Wong

Nemesis 1998 World Record Campaign Project

Program Manager
John Sharp
 Lockheed Martin Skunk Works
 Palmdale, CA

Team Members

Chuck Erb John Howell

Real-Time Response to Off-Board Stimuli During Air Combat Operations Project

Program Manager
Ron Deutschman
 Lockheed Martin Skunk Works
 Palmdale, CA

Team Members

Jim Brown	Ted Lauver	Mercedes Ratliff
Paul Craft		Ron Routolo

Reusable Low Earth Orbit (LEO) Payload Module Project

Program Manager

Hans Forsch

Project Manager LEO Reusable Payload Module
Northrop Grumman Corporation (ISAS), So. CA
El Segundo, CA

Team Members

John Kannapell
Jim Otto
Ping Wong

Rocket Based Combined Cycle Engine Development Project

Program Manager

Gary Ratekin

The Boeing Company Rocketdyne Propulsion & Power
Canoga Park, CA

Team Members

Jeri Bright	James Kimo Holt	Nancy Savage
Chris Brown	Mark Horn	Greg Somerville
Pat Curran	Andy Ketchum	Tim Steele
Mark Emanuel	Bo Kim	Ron Thurow
Shahram Farhangi	Rosalind Langford	Barbara Wahl
Frank Gammarillo	Doug Lynch	Steve Weisberg
Robert Gibson	Mark Margolin	Dan Wisner
Allen Goldman	Shinji Miyata	Tai Yu
	Paul Ortwerth	

TEMROK Ceramics Composite Products Project

Program Managers

Steven D. Atmur

David D. Hood

William S. Richardson

Project Managers - TEMROK Ceramic Composites
Northrop Grumman Corporation
Pico Rivera, CA

Team Members

Charles Burdsall	Michael Hagen	F. Donald Pousha
William E. Coonce	Edward Marin	Thomas E. Strasser
David E. Daws	Bryan Mitchell	Richard F. Zoia

X-33 Aerodynamics and Flight Control Project

Program Manager

Howard Lee

Lockheed Martin Skunk Works
Palmdale, CA

Team Members

Rajiv Singh Chowdhry, Ph.D. M. Christopher Cotting J. Scott Reaser

X-33 Launch Site Design Project

Program Manager

Ron Williams

Sverdrup Project Manager
Sverdrup Technology
Tullahoma, TN

Team Members

Dave Edgar	Brent Pewitt	Jerod Smith
John Laboda	Ty Profit	Richard Wakeman
Gary Lederle	Kevin Shepard	David White
Rick Mooney		Fred Yoder

X-33 Liquid Hydrogen Tank Project

Program Manager

Andrew Adams

X-33 Design Engineering Manager
Lockheed Martin Skunk Works
Palmdale, CA

Team Members

Hank Barber	David A. Hooke, Ph.D.	Michael C. List
Steven Faust	Michael S. Jacoby	Donald R. Sidwell
Walter M. Franklin III		John Webster

X-35 Fiber Placed Inlet Duct Project

Program Manager

Gary Kunitake

Lockheed Martin Skunk Works
Palmdale, CA

Team Members

Ted Dupas	Gary Kelly	Koi Marcucelli
Larry Fechner	John LeDuc	Chris Maynard
Tim Gormley	Kathy LeGendre	Anthony R. Vaughn

Special Presentation

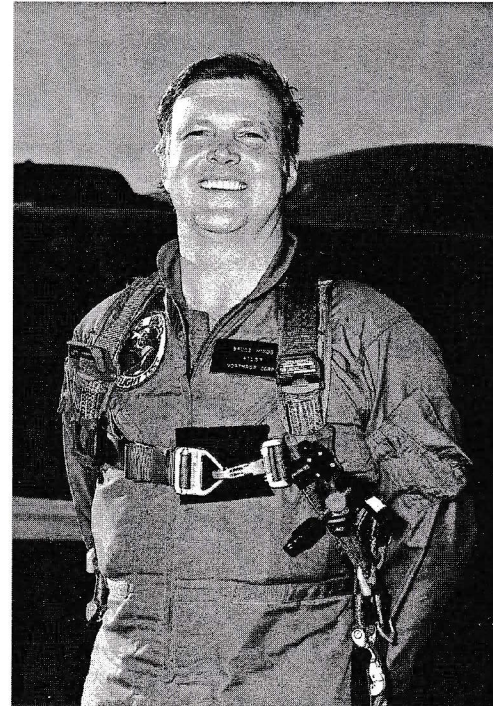
Brigadier General Charles E. (Chuck) Yeager
*International Aeronautical
 Achievements Award - 1999*

by

Dr. Laurence S. Caretto
 Dean of Engineering
 CSUN, CECS
 Northridge, CA

to

Bruce Hinds
 Aviation Consultant and Engineering Test Pilot
 Bruce Hinds Aviation
 Evergreen, CO



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.

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

Past Recipients

Robert R. Sandusky Jr. FIAE 1991	Joseph T. Gallagher 1993	Franklin Chang Diaz 1995	David L. Ferguson 1997
no presentation 1992	Edward C. "Pete" Aldridge Jr. 1994	Jack Real 1996	Maj. Gen. Richard L. Engel, USAF 1998

Special Presentation

**Clarence L. "Kelly" Johnson Memorial
 Lockheed Martin Skunk Works Award 1999**

by

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

to

Natalie W. Crawford
 Vice President and Director, Project AIR FORCE
 Rand Corp
 Santa Monica, CA



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. 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 Lightning, the Constellation transport, the P2V Neptune antisubmarine 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 Guggenheim Medal. In 1964, President Lyndon Johnson presented him with 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 to Clarence L. "Kelly" Johnson (Posthumously)

Accepted by his wife Nancy	1992
Lt. General James A. Fain Jr., USAF	1993
Major General Richard Scofield, USAF	1994
Ben R. Rich (Posthumously)	1995
General Joseph W. Ralston	1996
General Howell M. Estes III	1997
Lt. Gen. George K. Muellner	1998

**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
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 Intl.
1991	Edward G. Linhart, President and CEO, EGL Holding Company
1992	Sherman N. Mullin, President, Lockheed Advanced 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
1998	Anthony Joseph Spear, JPL/Caltech, Pasadena, CA

ENGINEER OF THE YEAR AWARD - 1999
— and —
PETER RECCHIA OMNI MEMORIAL AWARD - 1999

Presented by the 1996 Award Recipient

ERNEST SCHAEFFER

PRESIDENT
MOOG
Schaeffer Magnetics Division
Chatsworth, CA

to

ROBERT C. GOETZ

Vice President Engineering
Lockheed Martin Skunk Works
Palmdale, CA

Peter Recchia Omni Memorial Award - 1998
Permanent Replacement Trophy

Presented by the 1996 Award Recipient

ERNEST SCHAEFFER

PRESIDENT
MOOG
Schaeffer Magnetics Division
Chatsworth, CA

to

ANTHONY JOSEPH 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, SWE, AIE. 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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Woodland Hills, California

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

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

ENGINEERS' COUNCIL

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PAST RECIPIENTS

HONORARY ENGINEER OF THE YEAR AWARD

- 1969 Edward Reineke, California Lt. Governor
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., 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. 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, Washington, D.C.
1989 Dennis E. Wisnosky, President, Wizdom Systems, Inc., Naperville, IL
1991 Dick Cheney, United States Secretary of Defense
1992 no presentation
1993 no presentation
1994 Daniel S. Goldin, NASA Administrator, NASA Hqts., Washington, D.C.
1995 Dr. William J. Perry, United States Secretary of Defense
1996 Dr. William F. Ballhaus Jr., Corporate V.P., Science & Engineering, Lockheed Martin, Bethesda, MD
1997 Donna Shirley, Jet Propulsion Laboratory/Caltech, Pasadena, CA
1998 no presentation

MATHCOUNTS 1999

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.

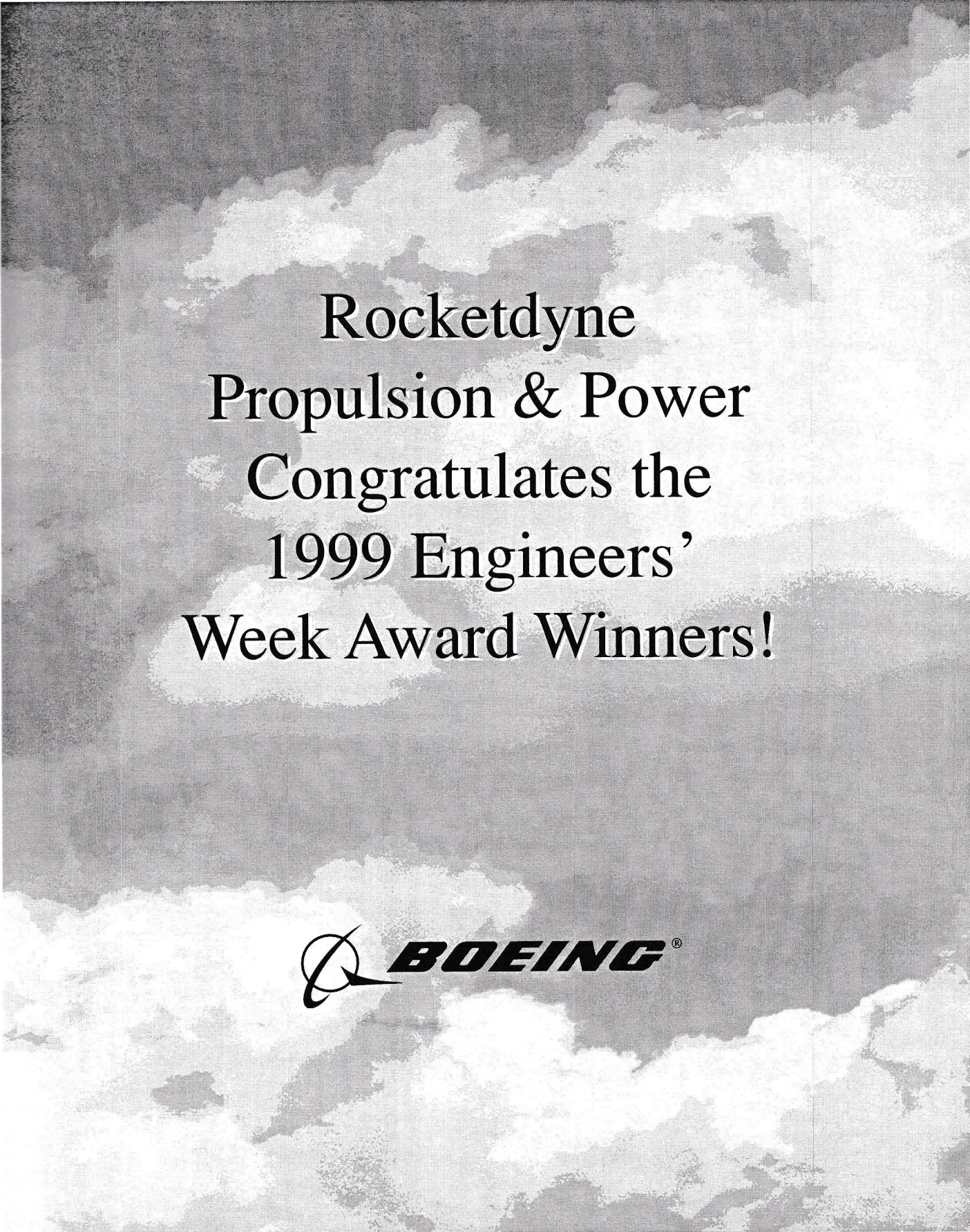
The team winning the local competition participates in the state competition. A team of very bright students, from individuals competing in the state competition are chosen to represent the state in the national competition in Washington, D.C. This is the thirteenth year for the NSPE MATHCOUNTS PROGRAM.

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 1999 COMPETITION.

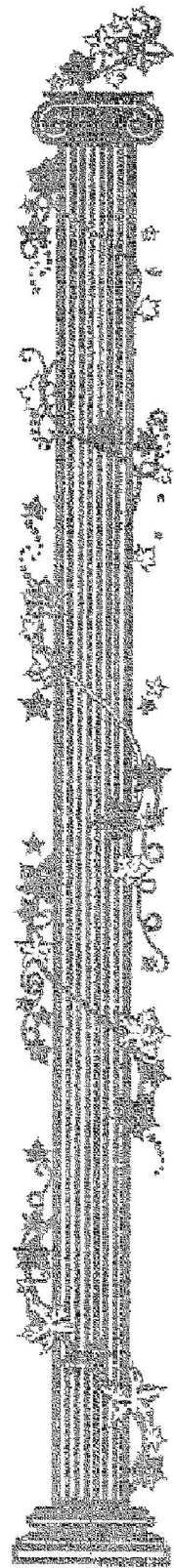
IN APPRECIATION

AIAA SAN FERNANDO VALLEY	HOLMES & NARVER	NORTHROP GRUMMAN CORP., HAWTHORNE
ASM SAN FERNANDO VALLEY	IEEE SAN FERNANDO VALLEY	NORTHROP GRUMMAN CORP., CENTURY CITY
ASQC SAN FERNANDO VALLEY	IIE SAN FERNANDO VALLEY	PARSONS INFRASTRUCTURE & TECHNOLOGY, PASADENA
BOEING NORTH AMERICAN, ROCKETDYNE PROPULSION & POWER	LOCKHEED MARTIN SKUNK WORKS	RAND CORP., SANTA MONICA
CAL TRANS	METROPOLITAN WATER DISTRICT	ROLAND ROGGERO ASSOCIATES
CSHE LOS ANGELES CHAPTER	MOOG CORP. SCHAEFFER MAGNETICS DIVISION	SME CHAPTER 099
CSPE SAN FERNANDO VALLEY	NATIONAL ENGINEERING TECHNOLOGY CORP., ARLINGTON HEIGHTS, ILL	SME CHAPTER 173
CSPE SANTA MONICA	NORTHROP GRUMMAN B-2 DIV., PICO RIVERA	SME REGION 012
CSUN, CECS	NORTHROP GRUMMAN B-2 DIV., PALMDALE	SOCIETY OF WOMEN ENGINEERS
GTE GOVERNMENT SYSTEMS		SVERDRUP CORP., TULLAHOMA, TN
HIGGINBOTHAM ASSOCIATES		



**Rocketdyne
Propulsion & Power
Congratulates the
1999 Engineers'
Week Award Winners!**





CONGRATULATIONS

To

THE RECIPIENTS OF
THE ENGINEERS' COUNCIL
ACHIEVEMENT AWARDS

1999

A JOB WELL DONE

1999

Integrated Systems and Aerostructures Sector

NORTHROP GRUMMAN

CONGRATULATIONS!

Moog Schaeffer Magnetics
Engineers' Council Award Winners
1999

Engineering Project Achievement Award

GLOBAL IMAGER SCANNER ASSEMBLY TEAM

- | | |
|------------------|---------------|
| STEVE DEMRO | CHRIS SCOTT |
| KEITH KELLY | NANCY SIPICH |
| TOM KOPROWSKI | BILL SKRESVIG |
| ERWIN MERCADO | JIM WALKER |
| RUBEN NALBANDIAN | LILY YAN |
| BRIAN POWERS | MITCH ZOREN |

Distinguished Engineering Achievement Award

SCOTT STANLEY

MOOG
Schaeffer Magnetics Division

Congratulations 1999 Awardees

**ROLAND ROGGERO ASSOCIATES
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- ENVIRONMENTAL MANAGEMENT

4338 N. OAK GLEN STREET CALABASAS, CALIFORNIA



*Congratulations And
Best Wishes!
To The 1999 Awardees*

HIGGINBOTHAM ASSOCIATES

RESOURCES MANAGEMENT

24310 Calvert Street Woodland Hills, California 91367-1113 (818) 992-8292

GTE CONGRATULATES

Our 1999

Outstanding Engineer Merit Award Winners

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MIKE LIMCACO

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GTE Government Systems provides intelligence, imagery, and data handling systems for various Government agencies. We have immediate openings for entry-level applicants as well as those with up to 8 years of experience in the following disciplines:

- Software Systems Engineers
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We are an equal opportunity employer and offer competitive salaries and excellent benefits. Successful candidates may be subject to a Government security investigation, and must meet eligibility requirements for access to classified information. Please forward resumes and salary history/requirements to Thomas G. Melatis, GTE Government Systems Corporation, PO Box 5027, Thousand Oaks, CA 91362-5027.

Congratulations!

**1999 ENGINEERS'
WEEK AWARDEES**

ENGINEERS' COUNCIL

WOODLAND HILLS, CALIFORNIA



CALIFORNIA STATE UNIVERSITY NORTHRIDGE

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE