

ENGINEERS' COUNCIL

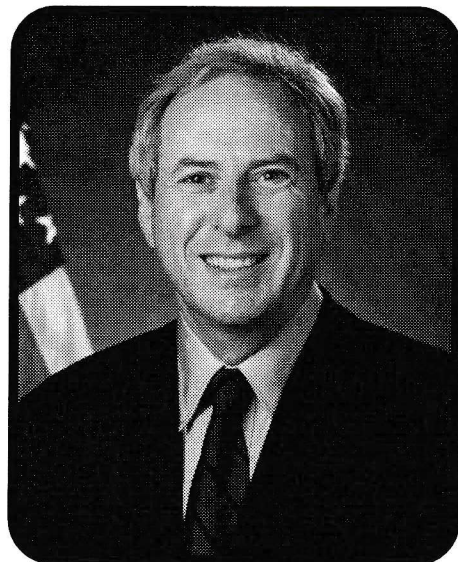
Woodland Hills, California



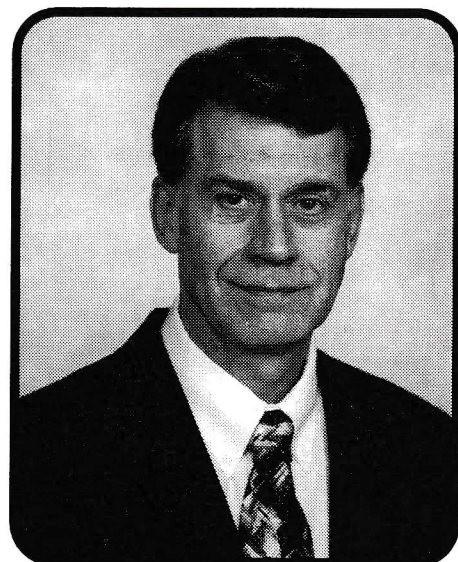
45th Anniversary HONORS AND AWARDS GALA BANQUET

Saturday, February 26, 2000

Souvenir Program



Keynote Speaker: Daniel S. Goldin
Administrator
NASA Headquarters
Washington, D.C.



Engineer of the Year: Dr. Michael E. Polites
Deputy Manager, Avionics Department
NASA/Marshall Space Flight Center
Huntsville, AL

In Celebration of National Engineers Week February 20-26, 2000

THE WHITE HOUSE

WASHINGTON, D.C.

December 19, 1999

Warm greetings to all those observing February 20-26, 2000, as National Engineers Week.

As we begin a new century, it is an ideal time to recognize and give thanks for the many contributions America's engineers have made to the life of our nation. From putting men on the moon to developing our interstate highway system, from cleaning our air and water to prolonging our health, engineers have been involved in many of our century's most extraordinary and enduring accomplishments. With a passion for discovery, engineers have worked tirelessly to make our lives safer, easier, and more fulfilling.

For half a century, National Engineers Week has helped to promote awareness of the engineering profession and to encourage young people to consider a career in engineering. I am confident that, with interesting hands-on activities and exciting competitions sponsored at schools and community centers around the nation, this year's observance will help to influence a new generation of young Americans to pursue their study of science and math – the foundation of a career in engineering.

I commend the organizers, volunteers, and supporters of National Engineers Week for your dedicated efforts to advance the field of engineering, and I am especially pleased that you have decided to focus on the environment and sustainable development during this year's observance. You can take pride in the knowledge that your hard work is helping to ensure the prosperity of our nation and to build a brighter, healthier future for our children.

Best wishes for a successful week.

The Skunk Works...

*Proudly congratulates the
2000 Engineers' Council Award Winners.*

*These dedicated professionals,
through their creativity and determination
are meeting complex technological
challenges and making invaluable
contributions to the security, prosperity
and quality of our lives.*

LOCKHEED MARTIN 

ENGINEERS' COUNCIL *Woodland Hills, California*

45th Anniversary **HONORS & AWARDS GALA BANQUET** *Saturday, February 26, 2000*

- 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
 - SPECIAL PRESENTATION BYRON K. WOOD
VICE PRESIDENT AND GENERAL MANAGER
THE BOEING COMPANY
CANOGA PARK, CA
 - PRESENTATION OF AWARDS STEVE BERROTH
NORTHROP GRUMMAN CORPORATION
-

ENGINEERS' COUNCIL

WOODLAND HILLS, CALIFORNIA

1955

A Brief History

2000

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.

2000 AWARDS & PRESENTATIONS Special Presentation

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

by

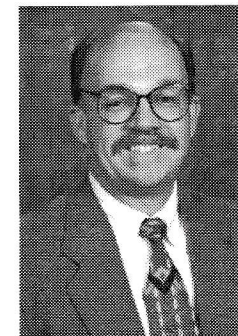
Byron K. Wood

Vice President and General Manager
The Boeing Company
Canoga Park, California

to

James S. Paulsen

Chief Engineer
The Boeing Company
Canoga Park, California



*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
Sherman Mullin 1999				

Engineers' Council Proudly Provides This Forum

For Special Recognition and Presentations during National Engineers' Week by IEEE
to their Members and Student Contest Honorees

The Los Angeles Council Sections, Chapters, and Members of The Institute of Electrical and Electronic Engineers Inc. (IEEE)

IEEE PES & IAS Energy Conservation 2000

College Paper Contest

The winners are:

Joseph L. Carnes
Electrical Engineering Student
California State Polytechnic University, Pomona

Ann Lee
Electrical Engineering Student
California State Polytechnic University, Pomona

Raul M. Perez
Electrical Engineering Student
California State Polytechnic University, Pomona

IEEE Bio-Tech Applications 2000

College Contest

Sponsored by the IEEE Coastal Los Angeles Section, the IEEE Engineering in Medicine and Biology Los Angeles Chapter, IEEE Circuits and Systems/Electron Devices Joint Los Angeles Chapter, and IEEE Communications / Signal Processing Joint Chapters.

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.

The winners are:

Steve Denia
Electrical/Biomedical Engineering Student
California State University, Long Beach

Fred L. Frith
Electrical Engineering Student
California State Polytechnic University, San Luis Obispo

Jennifer Garrett
Electrical/Biomedical Engineering Student
California State University, Long Beach

Mitchell C. Mc Garry
Electrical and Computer Engineering Student
California State Polytechnic University, Pomona.

Los Angeles Regional National Engineers Week 2000 Future City Competition

(The regional winning team is in Washington DC, representing our region at the National Competition)

Los Angeles Department of Water and Power Regional Science Bowl 2000

Timing of the contest did not permit printing the teams name!

The winning team will represent our region at the National Science Bowl coordinated and sponsored by the US Department of Energy.

The DWP Science Bowl Teams have won National Champion titles in 1995, 1996, 1997, and won the 2nd place National title in 1998.

Jet Propulsion Laboratories Regional Science Bowl 2000

The Regional Champion is:

Troy High School, Fullerton, California.

IEEE AUTOTESTCON Measurement and Science 2000 College Scholarships

Contest Theme:

To develop or present a concept recognized as furthering measurement technology or its science.

The winners are:

Mansoor Hashimi - California State University Long Beach

Elizabeth Hollenbeck - Loyola Marymount University

Lisa R. Reiner - California State University Northridge

Joseph Solomon - California State University Dominguez Hills

Michelle Tadang - California State Polytechnic University, Pomona

IEEE Millennium Medal Honorees

Approximately 3000 members will be awarded the Millennium Medal this year. Nominations were submitted by various IEEE entities to recognize members who have made outstanding contributions to the entities respective electrical and electronic engineering IEEE Society or Office.

Asad A. Abidi	Bruce S. Angwin	John T. Armstrong Jr.	Paul Baran	Antal K. Bejczy
Raymond K. Adams	Charles E. Antoniak	Philip C. Arnold	Curtis W. Barrett	G. A. Bekey
Ray E. Aker	Loretta J. Arellano	Laszlo Barabas	Katherine A. Baum	H. Clark Bell

IEEE Millennium Medal Honorees (Continued)

Clayton J. Benner	Tatsuo Itoh	Michael D. Martin	Pogorzelski	A. J. Skarnulis
J.M. Biddle	Ferdo Vanek	George L. Matthaci	E. G. Price	Spencer J. Smith
Mary Kay Birkelo	Jackson K. Iverson	Robert J. McEliece	Michael E. Puckett	David F. Southworth
Dwight A. Borses	Charles M. Jackson	David J. Melvold	F. C. Radaz	Frank J. Stankis
David Braun	Ronald M. Jackson	R. D. Middlebrook	Yahya Rahmat-Samii	Allen R. Stubberud
David Braverman	Irwin M. Jacobs	Laurence Milstein	Michael J. Ramey	Arthur W. Sutton
Fernando Calderon	Reynold S. Kagiwada	Sanjit K. Mitra	Robert C. Rassa	Steve Swift
David J. Cheng	Martin Kaliski	Orhan Nalcioglu	Irving S. Reed	Charles W. Swift
H. J. Christie	T. W. Kau	N. B. Nichols	Martin S. Roden	Mehmet A. Tan
Donald E. Giddings	Myron Kayton	Walter E. Noller	Ramin Roosta	Philip W. Tsung
E.S. Gillespie	F. R. Klumb	Noreen H. Norris	H.A. Rosen	Andrew J. Viterbi
S. H. Gold	Donald N. Laird	Ronald D. Nunnally	David B.	G. Wade
David A. Guerreri	Russell J. Lefevre	Maung Nyeu	Rutledge	George Walden
Leslie J. Haggerty	William C. Lindsey	J. A. Oliver	J. Sabath	Joel F. Walker
Kevin P. Haggerty	A. W. Love	Jon V. Osborn	Roland Schinzinger	Robert A. Watkins
R. C. Hansen	Daniel J. Love	H. G. Ottman Jr.	James E. Serpanos	James C. Weiler, Jr.
Edward J. Hoffman	Edward J. Lynch	Don Parker	Gwendolyn M. Shaw	Phillip L. Wheeler
Farshad J. Hormozi	Asad M. Madni	Pierre B. Perra	Tsunco C. Shishido	Paul A. Willis
John B. Horton	Joel H. Mallory	John M. Pierre	Farrokh Shokooh	Alan N. Willson, Jr.
J. R. Huddle	Carl Maltz	Ronald J.	Marvin K. Simon	Mehrdad Zomorrodi

Congratulations to the Year 2000 IEEE FELLOWS For Achievements and Advancements in Electronic and Electrical Engineering

Elliott Rowe Brown

University of California Los Angeles

For contributions to microwave and millimeter-wave solid-state antennas and sources.

Kwang-Ting Cheng

University of California, Santa Barbara

For contributions to innovative techniques for testing and synthesis of electronic circuits.

Sverre T. Eng

Jet Propulsion Laboratory

For contributions to optical communications, applied laser spectroscopy, and low-noise mixer diode technology.

Caio Alexandre Ferreira

Northrop Grumman Corporation

For contributions to the development of switched reluctance motors and generators applied to advanced electric aircraft.

Anthony Freeman

Jet Propulsion Laboratory

For contributions to SAR data calibration and development of SAR image products.

Jean-Luc Gaudiot

University of Southern California Los Angeles

For contributions to the programmability and reliability of data flow architectures.

Isidor Kerszenbaum

Edison Mission Energy

Contributions to the theory and application of dry-type transformers and the testing and inspection of large rotating machines.

Keith Edward Lindsey

Lindsey Manufacturing Company

Innovations to limit risk resulting from catastrophic mechanical failures of overhead transmission lines.

Lute Maleki

Jet Propulsion Laboratory

For contributions to the science and technology of frequency standards.

Henry Samuelli

Broadcom Corporation

For contributions to VLSI architectures and realizations for high-bit rate digital communication systems.

Special Thanks for the assistance of:

Professors **David Braun, Richard Cockrum, Chris Druzgalski, Mary Eshaghian, Maryam Moussavi, and Art Sutton;** and for the extra effort of members **Richard Careyette, Matt Collins, Larry Dalton, Alan Ho, John Hormozi, Mark Kaufman, Don Laird, Bob Rassa, and Phil Save.**

Sponsors for the Student Contests:

The Boeing Company, Doubletree Hotel, Eurest Dining Services, Foothill Trophy, Hitachi, Jet Propulsion Laboratory, Knott's Berry Farm, Learning Curve International, Inc., Los Angeles Department of Water and Power, Los Angeles Department of Water and Power Credit Union, National Aeronautics and Space Administration, Quilon Enterprises LLC, Southern California Edison, Southern California Gas Company, Sodexo Marriott Services, U.S. Department of Energy.

Support of all sponsors is equally and sincerely appreciated,
Mr. Fernando Calderon - Chair IEEE-PES Los Angeles Council Chapter
Mr. Keith Johnson - Chair IEEE-IAS Los Angeles Council Chapter
Please join Engineers' Council in recognizing these IEEE Year 2000 Member and Student Contest Honorees.



Working together for a brighter future!

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS – 2000

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

PRESENTED IN ALPHABETICAL ORDER

Hermann Altmann

Chief Engineer Global Hawk
Northrop Grumman Corporation/RAC
San Diego, California
For exceptional team leadership of the Global Hawk Project

Fred A. Bruckman

VentureStar Vehicle Development Manager
Lockheed Martin Skunk Works
Palmdale, California
For leadership of the VentureStar design. Contributions include developing a configuration and verifying its integrity with wind tunnel testing.

Charles H. Carter

Product Support Logistics
The Boeing Company
Canoga Park, California
For outstanding efforts in supporting the delivery and follow-on support of the International Space Station

Atherton Carty

IRAD Principal Investigator
Lockheed Martin Skunk Works
Palmdale, California
Recognized for the development of a Rapid Conceptual Design computer-aided analysis tool for application to Skunk Works Advanced Programs.

Douglas R. Chabot

Department Manager
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the area of software engineering methods and development processes in support of the DoD Community.

Carl D. Dever

Manager, B-2 Liaison and Operational Support Engineering
Northrop Grumman Corporation
Palmdale, California
For significant effort as team manager of the B-2 Leading Edge Static Discharge Anomaly Resolution.

Gerald R. Doria

Project Manager / Team Leader
Non Ozone Depleting Engine Bay Fire Extinguishing System
Northrop Grumman Corporation
Pico Rivera, California
For significant contributions as a team leader of the Staff of the F/A-18 Chief Engineer responsible for technical integration and Lean Process Implementation.

Chuck Finley

Lead Software Engineer/Digital Image Exploitation & Production System
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the area of software engineering methods and development processes in support of the DoD Intelligence Community.

Pat French

Program Manager, X-38 Flap Close-out Panel CMC Tiles
Northrop Grumman Corporation
Pico Rivera, California
For significant contributions to the success of the X-38 Close-out Panel CMC Tiles Engineering Project Achievement.

John Y. Fung

Stress Analyst / X-33 Engine Powerpack
The Boeing Company
Canoga Park, California
For dedicated service and valuable contributions in support of Rocketdyne turbomachinery.

Yvette M. Garcia

CADD Designer
The Boeing Company
Canoga Park, California
For leadership and high quality effort in development and production of the RS-68 Rocket Engine Program.

Vaughn P. Hendricks

Senior Member Tech Staff / Computer Security
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the area of information security engineering and network security posture enhancements in support of the DoD Intelligence Community.

Glenn Kawatani

Manager/Digital Image Exploitation & Production System
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the area of hardware and software engineering methods and development processes in support of the DoD Intelligence Community.

Donald K. Kent

Senior Engineer/Image Exploitation Support System
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the area of software engineering methods and development processes in support of the DoD Intelligence Community.

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 2000

Ladonna Lynn Kirby

Systems Integration Engineer
Lockheed Martin Skunk Works
Palmdale, California

In recognition of excellent performance during prototyping of Special Systems C-130 aircraft including Project SPEAR, Project Airborne trainer, ECLIPSE Block 20/30 Compass Call Advanced Engineering.

Steve McCleskey

Senior Technical Specialist Advanced Air Vehicle Design
Northrop Grumman Corporation
Pico Rivera, California

For significant contributions to the success of the X-38 Close-out Panel CMC Tiles Engineering Project Achievement.

Glen Maijala

Project Manager / Team Leader
Lockheed Martin Skunk Works
Palmdale, California

For significant contributions as Manager In Charge of the X-35 Mass Properties Integrated Product Team

Russell M. Mattox

Division Chief
NASA/MSFC
Huntsville, Alabama

In recognition of the contributions made to the aerospace community in the development of rocket engine control hardware, and management of hardware development for Space Station related projects.

Neil Orr

Lead Design Engineer
The Boeing Company
Canoga Park, California

For outstanding accomplishments leading to the success of the X-33 engine turbomachinery.

Robert J. Primas

Technical Consulting in Structural Analysis
The Boeing Company
Canoga Park, California

For innovative and creative structural design contributions to rocket engine propulsion systems, specifically in the areas of fatigue and fracture mechanics and non-metallic material systems.

Prof. Stewart Prince

Department of Mechanical Engineering
California State University
Northridge, California

For integrating manufacturing concerns into mechanical engineering design education and developing computer-aided design controlled manufacturing facilities for student use.

Scott Reaser

Lead Aerodynamicist
Lockheed Martin Skunk Works
Palmdale, California

For leadership of the X-33 aerodynamic configuration development, and contributions to the advancement of technology for reusable launch systems.

Gregory J. Roberts

Engineering Specialist F/A-18 Program
Project Manager / Team Leader
Non Ozone Depleting Engine Bay Fire Extinguishing System
Northrop Grumman Corporation
Pico Rivera, California

For significant contributions as a team member of the F/A-18 Secondary Power/Propulsion Installation/Environmental Control System.

Ron L. Rogers

Manager, B2 Structures Design & Analysis
Project Manager / Team Leader
B-2 Exhaust Lip Redesign Project
Northrop Grumman Corporation
Palmdale, California

For outstanding effort as team manager of the B-2 Exhaust Lip Redesign Project.

Matthew Ryan

Engineer/Image Exploitation Support System
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the areas of software engineering methods and development processes in support of the DoD Intelligence Community.

Gary D. Skinner

Design Specialist/Lead Aircraft Subsystems
Lockheed Martin Skunk Works
Palmdale, California
For engineering leadership of the X-33 final assembly and integrating the autonomous feature of the checkout during this effort.

Aaron Alexander Skupien

Software Engineer/Digital Image Exploitation & Production System
General Dynamics Electronic Systems
Thousand Oaks, California
For significant contributions in the areas of software engineering methods and development processes in support of the DoD Intelligence Community.

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS - 2000

Shawn D. Smith

Lead Engineer/B-2 Fleet Operational Support
Northrop Grumman Corporation
Palmdale, California

In recognition of the outstanding efforts made in supporting day-to-day flight operations of the B-2 Spirit, coordinating all B-2 repair dispositions at Whiteman AFB and deployed locations, while being instrumental in resolving several issues causing the fleet to be placed on precautionary standdown.

Prof. Steven Stepanek

Department of Computer Science
CSUN / CECS
California State University
Northridge, California

For educational leadership in developing web-based teaching and learning techniques in computer science, including Unix operating systems, networks, and object-oriented programming.

Tom Strasser

Project Leader
Northrop Grumman Corporation
Pico Rivera, California

For significant contributions to the success of the X-38 Close-out Panel CMC Tiles Engineering Project Achievement.

Patrick Tait

Deputy VMS IPT Lead for JSF CDA
Lockheed Martin Skunk Works
Palmdale, California

For technical advancements in flight control systems for STOVL aircraft and managerial leadership in the role of Deputy VMS IPT lead for the JSF Concept Demonstrator Aircraft Program.

Perry A. Tanouye

Principal Engineer - B-2 Program Flight Sciences and Structural Tracking
Northrop Grumman Corporation
Palmdale, California

For engineering excellence in structural design, analysis and test.

Glen Tauke

Project Manager / Team Leader
Lockheed Martin Skunk Works
Palmdale, California

For significant contributions to the success of the JSF STOVL Control Law Development Project as the Project Manager.

Peter R. Tupper

Lead Engineer - B-2 for Composite Structures and Surface
Preparation Design
Northrop Grumman Corporation
Palmdale, California

For significant contributions to the success of the B-2 Exhaust Lip Redesign.

Peter R. Tupper

Lead Engineer & Principal Engineer
Northrop Grumman Corporation
Integrated Systems and Aerostructures
Palmdale, California

For extraordinary effort in the capacity of Lead Engineer and Principal Engineer of the B-2 Exhaust Lip Redesign.

Jeffrey G. Ward

Senior Technical Specialist, B-2 Liaison Engineering
Northrop Grumman Corporation
Integrated Systems and Aerostructures
Palmdale, California

For extra effort as Senior Technical Specialist, B-2 Liaison Engineering.

Brian Wherley

The Boeing Company
Canoga Park, California

For your rapid prototyping, cost reduction, and lightweight combustion chamber component innovations.

Donald N. Williams

Re-engineered U-2S Propulsion Analysis Lead
Lockheed Martin Skunk Works
Palmdale, California

For career achievements in propulsion system design and development, flight test analysis, and engineering management, over a protracted Lockheed Martin career of 32 years.

G. Jeyaraj (Jey) Wilson

Structural & Dynamic Analysis Engineer
The Boeing Company
Canoga Park, California

For outstanding qualities and meritorious achievements within the field of engineering.

Mark Winquist

Combustion Devices Analysis Lead
The Boeing Company
Canoga Park, California

For high quality support of key development efforts in both rocket and high speed airbreathing propulsion systems.

Lisa Wise

Engineer/Image Exploitation Support System
General Dynamics Electronic Systems
Thousand Oaks, California

For significant contributions in the areas of software engineering methods and development processes in support of the DoD Intelligence Community.

Special Presentation

Clarence L. "Kelly" Johnson Memorial Lockheed Martin Skunk Works Award 2000

by

Ed Glasgow

VP of Engineering & Advanced Programs
Lockheed Martin Skunk Works
Palmdale, CA

to

Burt Rutan

President
Scaled Composites
Mojave, 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
Natalie W. Crawford	1999

DISTINGUISHED ENGINEERING ACHIEVEMENT AWARDS - 2000

Dr. Raymond Garland Clinton, Jr.

Group Leader - Non-Metallic Materials & Processes
NASA / Marshall Space Flight Center
Huntsville, Alabama

For outstanding contributions in the characterization of nonmetallic materials in support of the Shuttle Systems and Advanced Transportation Programs.

Carlton L. Foster

Team Lead / Expert on Mechanisms
NASA / Marshall Space Flight Center
Huntsville, Alabama

For distinguished leadership and expert engineering accomplishment in the field of mechanisms, not only at the Marshall Space Flight Center but also at the NASA and industry levels.

Todd Grothe

Senior Technical Specialist
Northrop Grumman Corporation
Palmdale, California

For personal dedication and accountability for very high standard ability as a highly successful team builder, and being an inspiration to all peers, management and customers, and being a cornerstone to low observables effectiveness analysis and B-2 operational capabilities.

Dr. James R. Huddle

Chief Scientist / Advanced Systems Group
Litton Guidance & Control Systems
Woodland Hills, California

For significant contributions to the science and engineering of inertial navigation that have provided benefits on the national level and led to the enhancement of the general body of knowledge.

Jeffrey S. Kincaid

Chief Program Engineer
The Boeing Company
Canoga Park, California

For outstanding contribution to the design and development of the Aerospike rocket engine.

Thomas B. McDonald

Chief Engineer for the Laser & Electro Optical Systems
The Boeing Company
Canoga Park, California

For distinguished service to The Boeing Company and the advancement of Optical Technology.

Daniel A. Tazartes

Research Scientist / Inertial Systems Group
Litton Guidance & Control Systems
Woodland Hills, California

For outstanding engineering contribution in the field of inertial navigation and the unselfish sharing of knowledge and the excitement of the engineering profession with the next generation engineers.

Anthony Thornton

Lead for Computational Fluid Dynamics
Lockheed Martin Skunk Works
Palmdale, California

For achievements in integrating advanced computational fluid dynamics methods to the aerothermodynamic analysis of Advanced Skunk Works products, and for leadership in facilitating a joint cooperative agreement with California State University at Northridge, California, to bring state of the art supercomputing resources to the campus for joint educational and industry use.

Special Presentation

Brigadier General Charles E. (Chuck) Yeager

*International Aeronautical
Achievements Award - 2000*

by

Bob Elrod
President
Lockheed Martin Skunk Works
Palmdale, CA

to

Jon S. Beesley
Flight Test Engineer
Lockheed Martin Skunk Works
Palmdale, 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 clusters, The Bronze Star Medal with V device, The Purple Heart, Distinguished Unit Citation Emblem with one oak leaf cluster, and the Air Force Outstanding Unit Award Ribbon.

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

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
			Bruce Hinds 1999

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS - 2000



B-2 Exhaust Lip Redesign

Northrop Grumman Corporation
Palmdale, California

Team Members

Rufus Banks, Jr.	Ron L. Rogers
Tom Good	George Sugihara
Donna Guritz	Peter R. Tupper

accepting the project award:

Ron L. Rogers

Project Manager / Team Leader

B-2 Leading Edge Static Discharge Anomaly Resolution

Northrop Grumman Corporation
Palmdale, California

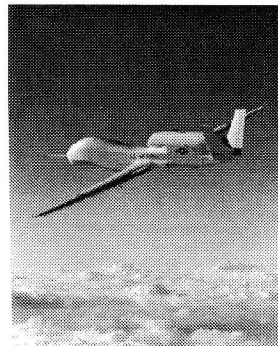
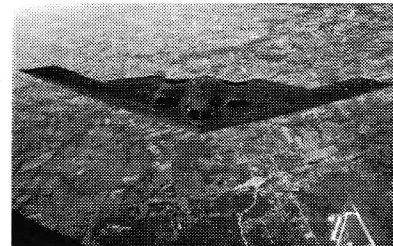
Team Members

Elliott Brown	Carl D. Dever	Rich Pemberton	Steve Sloan
Bob Daniel	Greg Lane	Mike Peters	Fred Williams

accepting the project award:

Carl D. Dever

Project Manager / Team Leader



Global Hawk

Northrop Grumman Corporation / RAC
San Diego, California

Team Members

Hermann Altmann	Bob Ettinger	Steve Harris	Vic Martinez	Dr. Don Stuart
Dave Bailey	George Guerra	Greg Loegering	Alfredo Ramirez	Mark Thompson
Jim Coates	Andy Guitierrez	Rolly Lofshult	Kerry Rowe	Ted Zavodny

accepting the project award:

Hermann Altmann

Project Manager / Team Leader

**Joint Strike Force Short Take-off or Vertical Landing (JSF STOVL) X-35C
Concept Demonstrator Control Law Development**

Lockheed Martin Skunk Works
Palmdale, California

Team Members

Dave Allen	Steven R. Combs	Steve Hagerott	Hederstrom	Glen Tauke
Ken A. Bordignon	Chris Cotting	P. Matt	Jae Kim	Bill Wood

accepting the project award:

Glen Tauke

Project Manager / Team Leader

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS - 2000

Non Ozone Depleting Engine Bay Fire Extinguishing System Development

Northrop Grumman Corporation
Pico Rivera, California

Team Members

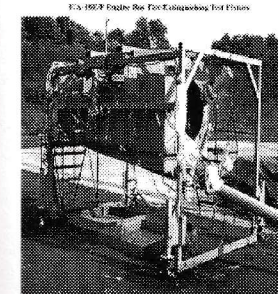
Lawrence Ash	Joe Doliner	Jim Higgins	Mark Kay	Marco Tedeschi
Phil Barnes	Gerald R. Doria	Doug Ingerson	Bill Leach	Gregg Turley
Don Bein	Ken Ferguson	Chris Jensen	Larry Nale	Joe Wolfe
Cary Thomas Breeden	Glenn Harper	Steve Kato	Gregory J. Oberts	

accepting the project award:

Gerald R. Doria

Gregory J. Roberts

Project Manager / Team Leaders



Rocketdyne RS-68 Rocket Engine

The Boeing Company
Canoga Park, California

Team Members

Steve Bennett	Ken Hunt	Charles M. Jones	George O'Connor	Craig Stoker	Arthur Weiss
Stephan Ebert	Jerry Jackson	Don McAlister	James Quaschnick	James Tibble	Mike Witt
David Geiger	Wilton Jennings	Scott Monson	John Phelps	Bob Wagner	Mark Zeller
		Joseph Newton	Cathy Schmidt		

accepting the project award:

John Phelps

Cathy Schmidt



X-35 Mass Properties Integrated Product

Lockheed Martin Skunk Works
Palmdale, California

Team Members

Al Bayly	Thomas Koonce	Glen Maijala	Bob Turer
Jessica Caughey	Kevin Maples	Tuan Ong	Jim Valentine
Zone Hobson	Jim Mason	Jim Post	

accepting the project award:

Jim Valentine

Project Manager / Team Leader

X-38 Flap Close-out Panel CMC Tiles

Northrop Grumman Corporation
Pico Rivera, California



Team Members

Don Curry	Pat French	Jim Milhoan
Tony Dao	John Kowal	Vuong Pham
Gary Doerre	Ron Lewis	F. Donald Pousha
Andy Ervine	Chris Madden	Tom Strasser
	Steve McCleskey	

accepting the project award:

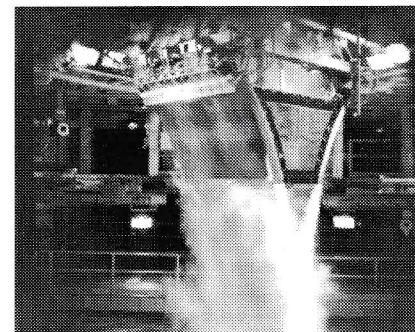
Pat French
Steve McCleskey
Tom Strasser
Project Manager / Team Leaders

XRS-2200 Linear Aerospike Engine Project Management Team

The Boeing Company
Canoga Park, California

Team Members

Peter C. Ackerman	Thomas D. Cadwell	John S. Malinzak
Ben R. Balzer	Timothy J. Harmon	Jill C. Mathews
Edward W. Bechtel	Richard W. Hilscher	Michael J. McKeon
Steven A. Bouley	Stephen A. Hobart	William M. Munsch
John M. Bowman	Waldemar (Walt) J. Janowski	Brian H. Shinguchi
Laura A. Brozowski	Jeffrey S. Kincaid	Craig S. Stoker
Gayle W. Bruckner	David Y. Louie	Jon C. Volkmann



accepting the project award:

Steven A. Bouley
Jeffrey S. Kincaid

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OF THE YEAR AWARD - 2000

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Dean of Engineering and Computer Sciences
California State University at Northridge CSUN/CECS
Northridge, CA

to

DR. HELEN A. RYACIOTAKI-BOUSSALIS
Chair, Department of Electrical & Computer Engineering
California State University
Los Angeles, CA



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1966	Steven J. Domokos, Rocketdyne Div., Rockwell International
1967	James A. Broadston, Rocketdyne Div., Rockwell International
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1969	Willis M. Hawkins, Lockheed Aircraft Company
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1976	Sam F. Jacobellis, 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
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1984	Dr. Malcom Currie, Hughes Aircraft Company
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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
1999	Robert Goetz, V.P. Engineering, Lockheed Martin Skunk Works, Palmdale, CA

ENGINEER OF THE YEAR AWARD - 2000

Presented by the 1994 Award Recipient

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Vice President and General Manager
The Boeing Company
Canoga Park, CA

to

DR. MICHAEL E. POLITES

Deputy Manager, Avionics Department
NASA/Marshall Space Flight Center
Huntsville, AL

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BYRON K. WOOD

Vice President and General Manager
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Canoga Park, CA

to

DR. MICHAEL E. POLITES

Deputy Manager, Avionics Department
NASA/Marshall Space Flight Center
Huntsville, AL

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."

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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

MATHCOUNTS 2000

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.

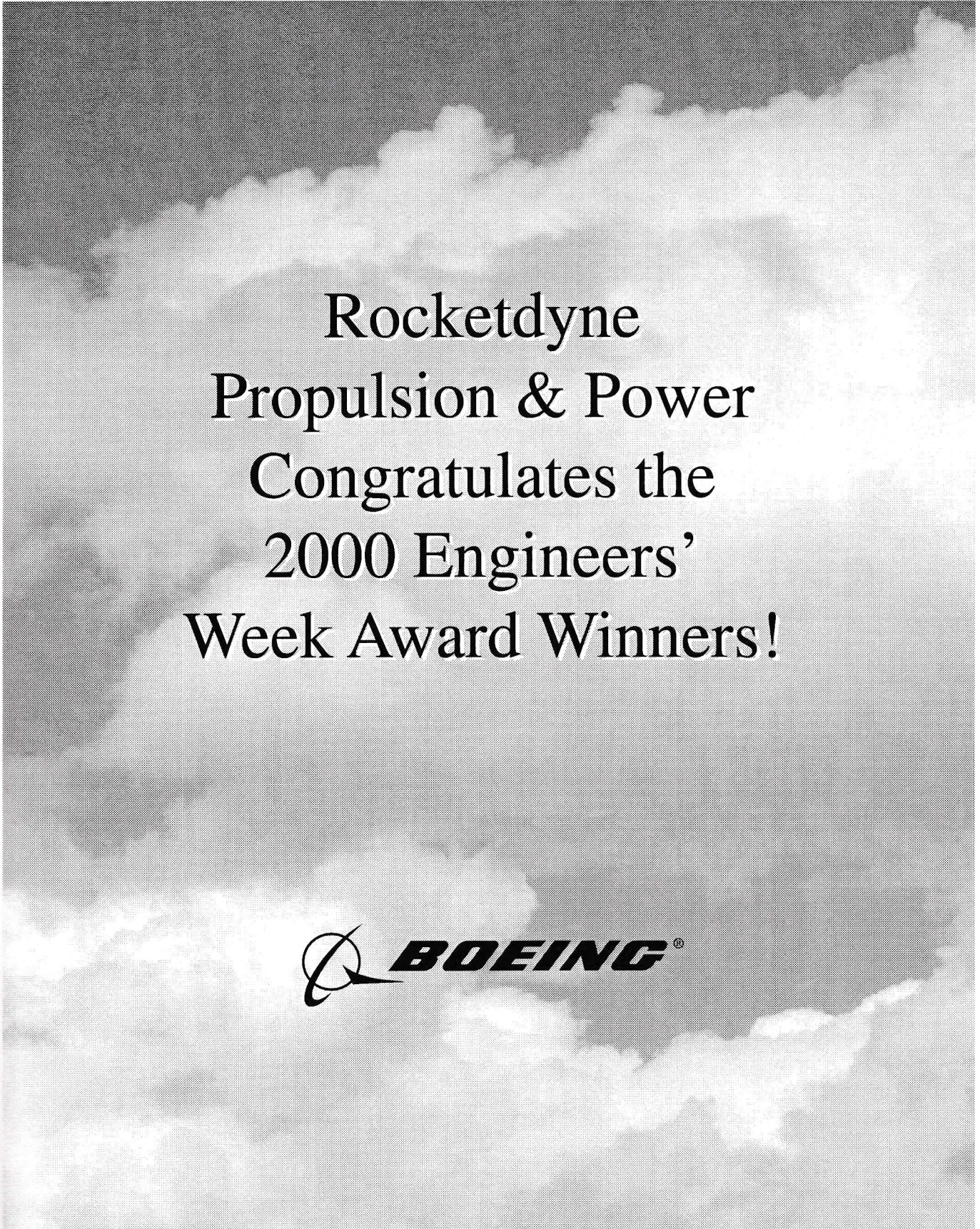
The team winning the local competition participates in the state competition. A team of very bright students, from individuals competing in the state competition are chosen to represent the state in the national competition in Washington, D.C. This is the thirteenth year for the NSPE MATHCOUNTS PROGRAM.

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 2000 COMPETITION.

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ASM SAN FERNANDO VALLEY	IEEE SAN FERNANDO VALLEY	NORTHROP GRUMMAN CORP., CENTURY CITY
ASQC SAN FERNANDO VALLEY	IIE SAN FERNANDO VALLEY	ROLAND ROGGERO ASSOCIATES
BOEING NORTH AMERICAN, ROCKETDYNE PROPULSION & POWER	LOCKHEED MARTIN SKUNK WORKS	SME CHAPTER 099
CSHE LOS ANGELES CHAPTER	MOOG CORP. SCHAEFFER MAGNETICS DIVISION	SME CHAPTER 173
CSPE SAN FERNANDO VALLEY	NORTHROP GRUMMAN B-2 DIV., PICO RIVERA	SME REGION 012
CSULA	NORTHROP GRUMMAN B-2 DIV., PALMDALE	SOCIETY OF WOMEN ENGINEERS
CSUN, CECS	NORTHROP GRUMMAN (RAC) SAN DIEGO	
GENERAL DYNAMICS ELECTRIC		



**Rocketdyne
Propulsion & Power
Congratulates the
2000 Engineers'
Week Award Winners!**





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THE ENGINEERS' COUNCIL

ACHIEVEMENT AWARDS

2000

A JOB WELL DONE

2000

Integrated Systems and Aerostructures Sector

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*Congratulations And
Best Wishes!
To The 2000 Awardees*

HIGGINBOTHAM ASSOCIATES

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GENERAL DYNAMICS
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**2000 ENGINEERS'
WEEK AWARDEES**

ENGINEERS' COUNCIL

WOODLAND HILLS, CALIFORNIA



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