

ENGINEERS' COUNCIL

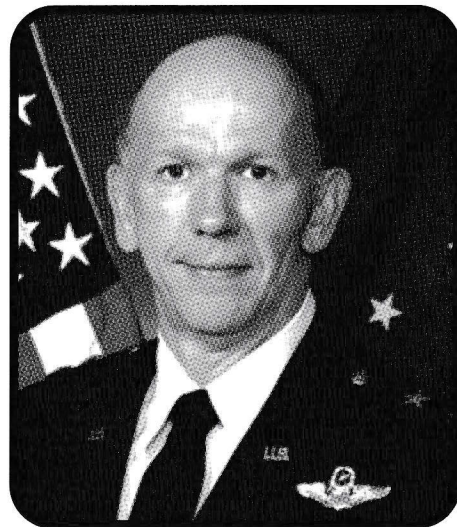
Northridge, California



49th Anniversary **GALA HONORS AND AWARDS BANQUET**

Saturday, February 28, 2004

Souvenir Program

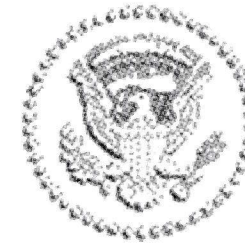


Keynote Speaker:
Maj. Gen. Doug Pearson
*Commander
Air Force Flight Test Center
Edwards Air Force Base, California*



Engineer of the Year:
Norman S. Sakamoto
*Vice President
Northrop Grumman Corporation
San Diego, California*

Presidential Message for National Engineers Week February 22-28, 2004



The White House Washington

I send greetings to those celebrating National Engineers Week.

National Engineers Week highlights the contributions of America's engineers to our technological progress, infrastructure, strength, and prosperity. I applaud the professionals, educators, and students participating in National Engineers Week for your dedication to improving our quality of life and revolutionizing the way we learn, work, and communicate. By promoting a standard of professional excellence, you help ensure a promising future for all.

Laura joins me in sending our best wishes for a successful week.

Engineers' Council
NORTHRIDGE, CALIFORNIA

1955

A Brief History

2004

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 years, the Council's activities have grown from a joint meeting of these societies into today's Annual Gala Honors & Awards Banquet celebrating National Engineers' Week. 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 34 years, a host of nationally renowned individuals has proudly received this award.

The Peter Recchia Omni Memorial 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 award. This perpetual trophy is given annually to the Engineer of the Year.

In 1987, Brigadier General Charles E. "Chuck" Yeager lent his name to the San Fernando Valley Engineers' Council, which has since annually presented the Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievements Award to individuals who, with the general's concurrence, have attained historically outstanding achievements in the field of aeronautical flight test and engineering.

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 Memorial 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.

Proceeds from the San Fernando Valley Engineers' Council Gala Honors & Awards Banquet are used to fund the Engineers' Council college scholarship programs, high school mentoring program, and middle-school math and science educational enrichment program.

San Fernando Valley Engineers' Council
Northridge, California

49th Anniversary
Honors & Awards Gala Banquet
Saturday, February 28, 2004

◆
Reception – 5:00 p.m.

◆
Welcome & Introductions – 6:00 p. m.
Robert B. Tarn, FIAE, AIAA

◆
Chairman's Message
Dr. S. T. Mau, FASCE, ASEE

◆
Dinner

◆
Keynote Speaker – 7:00 p.m.
Maj. Gen. Doug Pearson

◆
Presentation of Awards
Paul F. Landry
Dr. Charles H. Volk, IEEE
Robert B. Tarn, FIAE, AIAA
R. L. "Ron" Rogers, AIAA

◆
Closing

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS 2004

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

Presented in Alphabetical Order

J. R. Burger

Professor
California State University Northridge
Northridge, California

*"For Groundbreaking 16-Micron CMOS Device
Fabrication, and Development of a Variable
Bandwidth Audio Method for High Frequency
Radio Transmission"*

Dale O. Cipra

Principal Technical Specialist
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Outstanding Engineering
Achievements and Development of
Outstanding Engineers"*

Brian J. Garone

Data Link Technical Expert
412 TW Engineering Directorate
Edwards Air Force Base, California

*"For Leadership in the Field of Data Link Test
and Evaluation"*

John L. Jenk

Staff Aeronautical Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions to Requirements
Development and Technology Advancement for JP-
8+100LT Fuel Replacement on the U-2 Aircraft"*

Theresa Jester

Senior Director, Engineering and Operations
Shell Solar Industries
Camarillo, California

*"For Leading the Development and Execution of
a New Engineering Process to Manufacture
Photovoltaic Panels at Reduced Cost"*

Timothy J. Johnston

Engineer
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Engineering Leadership and
Dedication to the Success of United States
Aerospace Products"*

Lucien Q. Junkin

Aerospace Engineer
Lockheed Martin Space Systems Company
Houston, Texas

*"For Outstanding Efforts to Inspire Thousands
of Students in Robotic Competitions, Paving the
Way for a New Generation of Engineers"*

David S. Kidman

Propulsion Integration Technical Expert
412 TW Engineering Directorate
Edwards Air Force Base, California

*"For Contributions to Advancements in the
F/A-22 Flight Test and Evaluation Effort"*

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS 2004

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

Presented in Alphabetical Order

Rebecca C. Lovejoy

Associate System Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions to the U-2 Risk
Management Program"*

Edmond J. Miller

Aeronautical Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions in Development of the
U-2 ASARS-2 Backward Compatibility Intercept
Cable Design"*

Kirk A. Miyake

Senior Aeronautical Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions to Improved U-2 Aircraft
Life Support and Egress Systems, and Support to
Operations Enduring Freedom & Iraqi Freedom"*

Robert S. Moeller

Test Operations Engineer
Boeing Rocketdyne Propulsion & Power
SSC Station, Mississippi

*"For Technical Leadership in the Test Operations
Engineering Group at Stennis Space Center"*

Michael Myers

Senior Manager
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Outstanding Qualities and Meritorious
Achievements within the Field of Systems Engineering"*

Ignacio B. Osorno

Associates Professor
California State University Northridge
Northridge, California

*"For Integration of State-of-the-Art Knowledge into an
EE Laboratory Course"*

Kadambi R. Rajagopal

Technical Fellow
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Technical Expertise in Robust Analysis Techniques
and Computing Requirements, and Ability to Reduce
Product Cost and Increase Product Reliability"*

Julio C. Rodes

Engineer
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Excellence in Rocket Engine and Spacecraft
Mechanical Engineering"*

OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS 2004

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

Presented in Alphabetical Order

Kirk Roetcisoender
Principal Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Patent of Low Epsilon, High Density Materials, and
18 Years of Significant Achievements in Materials for
Survivable Aerospace Applications"*

David C. Sieber
Senior Staff System Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions to the U-2 Program
through Successful Integration of the Electronic Warfare
and Data Link Systems"*

Charles E. Rogers
Flight Test Engineer
412 TW Engineering Directorate
Edwards Air Force Base, California

*"For Technical Expertise in X-Planes and Leadership in
Space and Hypersonics Flight Test Theory"*

Frank R. Stott
LSI/VLSI Specialist
Jet Propulsion Laboratory, NASA
Pasadena, California

*"For Contributions to the Field of Electronic Parts and
Reliability Engineering"*

Barbara M. Schackel
CMMI Site Leader
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Outstanding Leadership of Process Improvements
Leading to Satisfaction of CMMI Level 3 Criteria, with
Significant Progress Towards Levels 4 & 5"*

Mike H. Taniguchi
Process Leader
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

*"For Contributions to the Engineering Profession as a
Leader and Champion of Diversity and Mentoring"*

Scott A. Yamamura
Senior Aeronautical Engineer
Lockheed Martin Aeronautics Company
Palmdale, California

*"For Significant Contributions to Accomplishing Repair
and Salvage Designs for the Aircraft 1080 Wing Repair
Program"*

Special Presentation ENGINEERING EDUCATOR OF THE YEAR AWARD 2004

Presented by

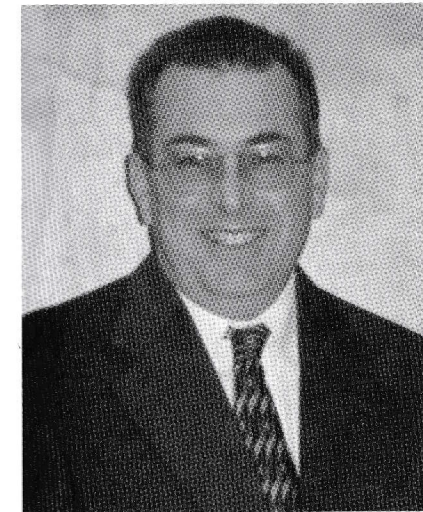
Dr. Michael Kabo

Associate Dean, CECS
California State University at Northridge
Northridge, California

to

Mr. Tarek A. Shraibati

Lecturer, College of Engineering & Computer Science
California State University at Northridge
Northridge, California



Mr. Tarek A. Shraibati

The Engineering Educator of the Year Award is given in recognition of significant educational achievements, and the successful involvement of students in learning, research and in the application of science and mathematics to the solution of problems in engineering design or theory.

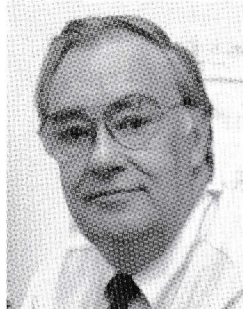
Recognition of a top educator began in 1982, with the "Education Achievements Award". In 1985, the top educator award was renamed the "Distinguished Education Achievements Award", and in 1987 the word "Engineering" was added so that in following years the "Distinguished Engineering Education Achievements Award" was presented to our top engineering educator. At the National Engineers Week Banquet of 1991, the award became the "Engineering Educator of the Year Award".

Past Recipients

Dr. A. F. "Rick" Ratcliffe, CSUN	1982	Dr. Michael Hassul, CSULB	1993
Dr. Robert Y. Wong, CSUN	1983	Dr. John W. Adams, CSUN	1994
Dr. Edmond S. Gillespie, CSUN	1984	Dr. Sembian R. Rengarajan, CSUN	1995
Dr. Thelma Estrin, UCLA	1985	Dr. Roger Di Julio, CSUN	1996
Dr. Gregg W. Dixon, CSUN	1986	Dr. Martin S. Roden, CSULA	1997
Dr. Bonita J. Campbell, CSUN	1987	Dr. Ramin Roosta, CSUN	1998
Dr. Diane Schwartz, CSUN	1988	Dr. Helen A. Ryaciotaki-Boussalis, CSULA	2000
Dr. Larry Lichten, CSUN	1989	Dr. Sharlene Katz, CSUN	2001
Dr. B. J. Shell, Northrop University	1991	Dr. Stewart Prince, CSUN	2002
Dr. Mihran S. Agbabian, USC	1992	Dr. Nagwa Bekir, CSUN	2003

**DISTINGUISHED ACHIEVEMENT
AWARDS 2004**

Distinguished Engineering Achievement



Robert J. Buchler
Research Scientist
Northrop Grumman Navigation Systems
Woodland Hills, California

"For Significant Contributions to the Science and Engineering of Integrated Inertial Navigation Systems that are Proven Beneficial to Military and Commercial Users"

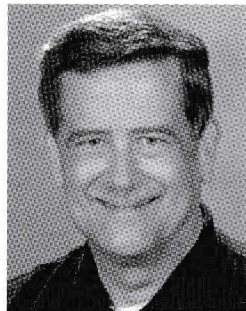
Distinguished Engineering Achievement

Charles Chase
Senior Program Manager
Lockheed Martin Aeronautics Company
Palmdale, California



"For Significant Engineering and Leadership Contributions to Maturing Technology Readiness Levels in Advanced Morphing Aircraft Structures and Advanced Special Technologies"

Distinguished Engineering Achievement

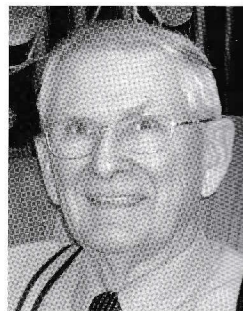


John M. Haworth
Process Leader
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

"For Unselfish Dedication and Technical Support Given to Rocketdyne Programs, and Career Advancement of his Employees"

Distinguished Engineering Educator

Edward W. Larson
Adjunct Professor
California State University Northridge
Northridge, California



"For Outstanding Professional Qualities, Meritorious Achievements, and for Truly Giving Back to his Profession within the Field of Civil Engineering"

**DISTINGUISHED ACHIEVEMENT
AWARDS 2004**

Distinguished Engineering Achievement

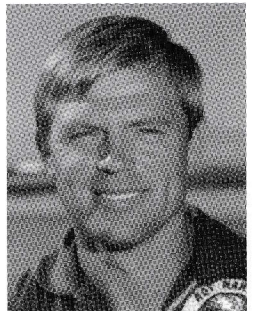


Asad M. Madni
President & Chief Operating Officer
BEI Technologies, Inc.
Sylmar, California

"For a Distinguished Career of Seminal and Pioneering Contributions to Science and Technology"

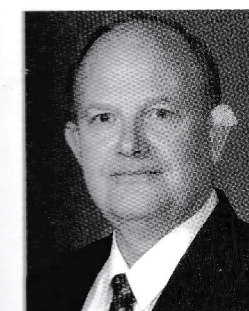
Distinguished Engineering Achievement

Roy Martin
Chief Test Pilot
Northrop Grumman Integrated Systems
Palmdale, California



"For Piloting the First Successful Demonstration of Reduced Sonic Boom and Furthering the Advancement of Aviation through Personal Devotion to Providing Skilled Test Pilots for the Second Century of Flight"

Distinguished Engineering Achievement

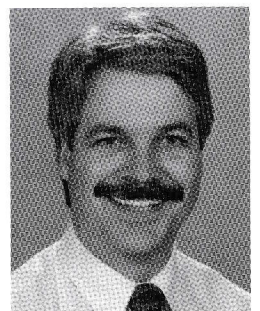


John L. Minor
Master Instructor
412 TW Engineering Directorate
Edwards Air Force Base, California

"For Outstanding Educational Contributions to the EAFB Engineering Community"

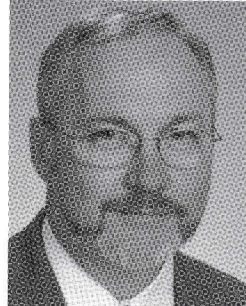
Distinguished Engineering Achievement

Terry H. Murphy
Division Director
Boeing Rocketdyne Propulsion & Power
Canoga Park, California



"For 23 Years of Experience in Liquid Rocket Propulsion and Energy systems Programs, and Leadership in Development of Power Systems for Revolutionary Deep Space Capability"

DISTINGUISHED ACHIEVEMENT AWARDS 2004



Distinguished Engineering Achievement

Larry Pellett
Director
Lockheed Martin Aeronautics Company
Palmdale, California

"For Outstanding Contributions in the Field of Electromagnetics, Low Observable Technology Measurements, and Low Observable Antennas and Radomes"

Distinguished Engineering Achievement

Robert E. Stewart
Research Scientist
Northrop Grumman Navigation Systems
Woodland Hills, California



"For Significant Contributions to the Development of Inertial Sensors and for Leadership in the Development of High Performance Silicon MEMS Sensors"



Distinguished Engineering Achievement

Kenneth F. Temple
Lead ARTM Engineer
412 TW Engineering Directorate
Edwards Air Force Base, California

"For Outstanding Efforts and Leadership in Advanced Airborne and Ground Telemetry for Major Department of Defense Test Ranges"

Special Presentation

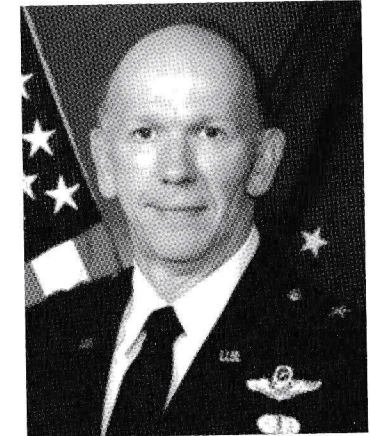
Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievements Award 2004

Presented by

Robert B. Tarn, FIAE, AIAA
President
San Fernando Valley Engineers' Council
Northridge, California

to

Major General Doug Pearson
Commander
Air Force Flight Test Center
Edwards Air Force Base



Major Gen. Doug Pearson

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, 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.

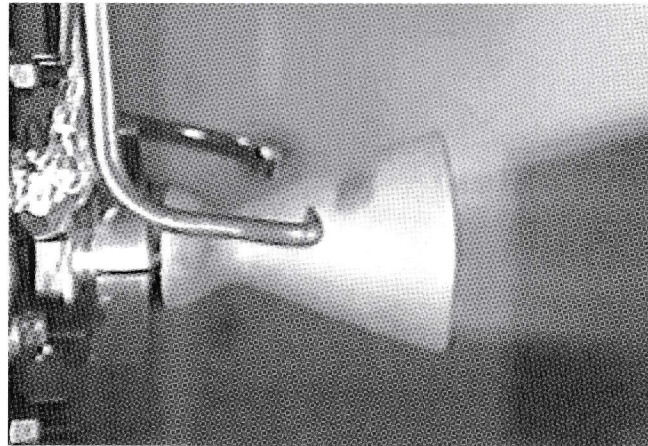
His military decorations and awards include The Distinguished Service Medal with one oak leaf cluster, The Silver Star with one oak leaf cluster, The Legion of Merit with one oak leaf cluster, The Distinguished Flying Cross with two oak leaf clusters, The Bronze Star Medal with "V" device, The Purple 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

Brig. Gen. Charles E. "Chuck" Yeager, USAF	1987	David L. Ferguson	1997
Maj. Gen. Joe H. Engle, USAF	1988	Maj. Gen. Richard L. Engel, USAF	1998
Robert A. "Bob" Hoover	1989	Bruce Hinds	1999
Robert R. Sandusky Jr. FIAE	1991	Jon S. Beesley	2000
Joseph T. Gallagher	1993	Lt. Gen. Thomas J. Keck, USAF	2001
Edward C. "Pete" Aldridge Jr.	1994	Gen. John P. Jumper, USAF	2002
Franklin Chang Diaz	1995	Col. Russell E. Schlee, USAF	2003
Jack Real	1996		

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



Multi-Use Interceptor Rocket Engine Development

Boeing Rocketdyne Propulsion & Power
Canoga Park, California

Team Members
 Daudi M. Barnes William S. Brown Hadi Darejeh
 Frederick E. Dodd Peter A. Schilhavy Michael W. Szever

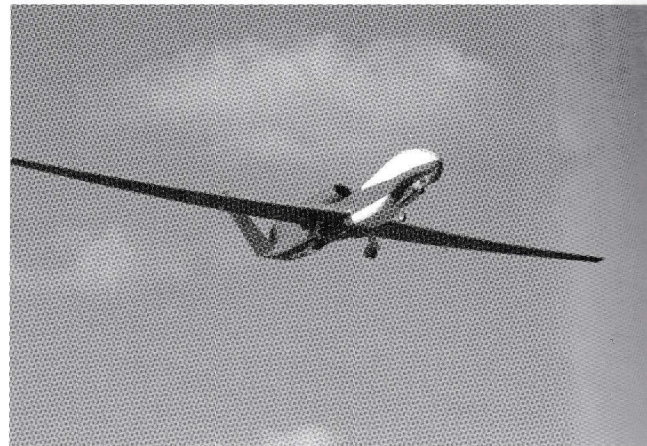
Accepting the Project Award
William S. Brown
 Member of the Technical Staff

Advanced Information Architecture Demonstration

Northrop Grumman Integrated Systems
San Diego, California

Team Members
 Rho Cauley MyMy Dao Chris Duffy
 Alden Holmes Dave Lindo Joe Lines
 Fred Strack Rob Teel Mike Vest

Accepting the Project Award
Dave Lindo
 Integration Team Leader

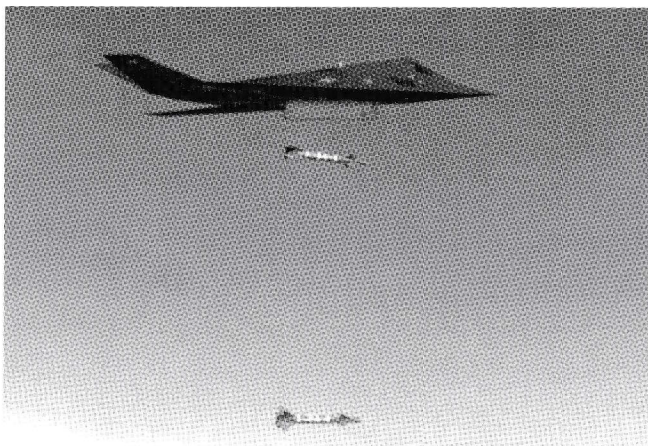


Enhanced GBU-27 Test

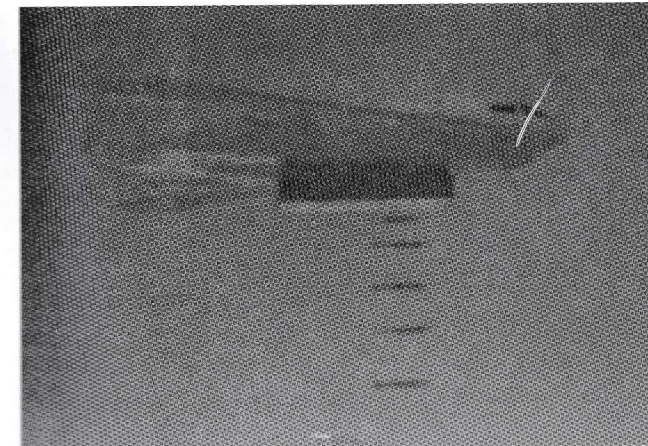
Lockheed Martin Aeronautics Company
Palmdale, California

Team Members
 Gary Arnold Earl Burch Ming Chang
 Caleb Conner Dennis M. Fernandez James Hoge
 Jeffrey Knowles Mark Lewis Timothy McDonald
 David Paffrath Barry Pittman Douglas Short
 William Thacker Arthur Wagner Arnold Wilenken

Accepting the Project Award
Dennis M. Fernandez
 IPT Manager



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



B-2 SBRA/JDAM-82 Demonstration

Northrop Grumman Integrated Systems
Palmdale, California

Team Members
 Jeff Beuder Todd Copeland Michael J. Galaway
 Greg Gaskill Greg Guerin Tim Houck
 Mary Leach Tom Lebeau Mike Marchioli
 Walt Ming Gary Orahood William Power
 Curt Redecker Bill Stone

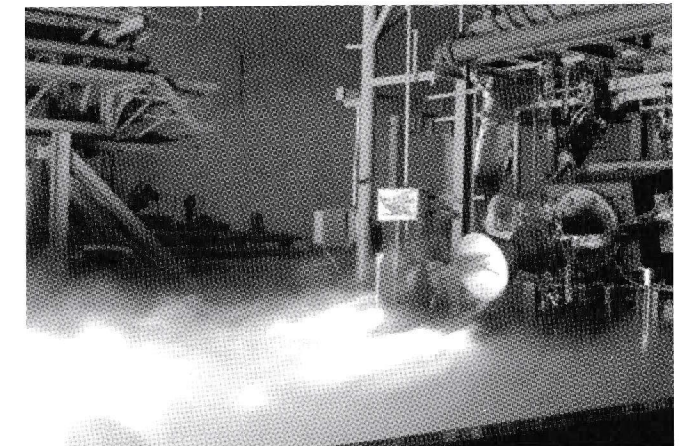
Accepting the Project Award
Michael J. Galaway
 Program Manager

RS-88 Improved Crew Escape System Design, Development & Test

Boeing Rocketdyne Propulsion & Power
Canoga Park, California

Team Members
 Daniel P. Cap Maria E. Corral Brian R. Corriveau
 Frederick E. Dodd Vanessa A. Duke Nancy L. Fancher
 James R. Forde Mark K. Gilster Edward W. Kennedy
 Sean T. Kurizaki Alfred D. Lewis Alfred N. Little
 Terry A. Lorier Fawzi A. Mhemedi Raul E. Perez
 Roger A. Richardson Todd A. Roberts

Accepting the Project Award
Terry A. Lorier
 Program Manager

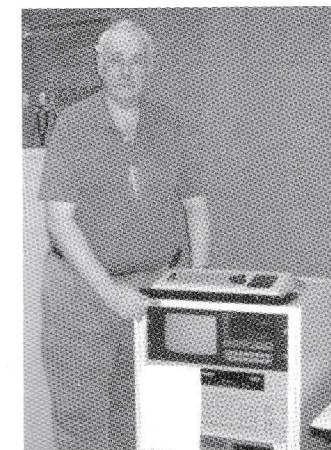


COTS Processor Jovial to C Automated Translation

Northrop Grumman Integrated Systems
El Segundo, California

Team Members
 John Benson Srivatsan Bindiganavile Stephan Brown
 Steve Carrion Dwight E. Cass Sunil Dixit
 Vijay Goel Carl Hoon Tom Jiang
 John Lillifors Andy Loofbourrow Thomas McCloud
 Brian McEvoy Ross Pierce Luke Ravitch
 Charles Rogers Bill Watkins

Accepting the Project Award
Dwight E. Cass
 Principal Engineer



Special Presentation

William B. Johnson International Inter-Professional Founders Memorial Award 2004

Presented by

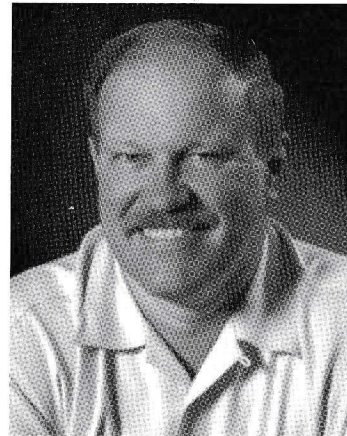
Maynard L. "Joe" Stangeland

Chief Designer
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

to

Jeffrey S. Kincaid

Chief Engineer
Boeing Rocketdyne Propulsion & Power
Canoga Park, California



Jeffrey S. Kincaid

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

William B. Johnson	1982	Jack L. Ferrell	1996
George J. Hallinan	1990	Byron K. Wood	1997
Dr. John J. Guarrera	1991	Jim Albaugh	1998
Lloyd W. Higginbotham	1992	Sherman Mullin	1999
Roland V. Roggero	1993	James S. Paulsen	2000
Norman Shaffier	1994	Maynard L. "Joe" Stangeland	2001
Alan R. "Al" Bjorklund	1995	John B. Plowden	2003

Rocketdyne
Propulsion & Power
Congratulates the
2004 Engineers'
Week Award Winners!



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



Falcon Edge-IMU Engineering Development Northrop Grumman Navigation Systems Woodland Hills, California

Gary Abato
Randy Currey
Dennis Okita
Fred Rosen
Stan Steger

Team Members

Joe Bogar
Altan Eris
Jim Omori
Ilan Sendowski
Carlos Valencia
Tom Varty

Claudia Carson
Steve Froman
Kevin J. Picklesimer
Farooq Sheikh
Anselm Varni

Accepting the Project Award
Kevin J. Picklesimer
Systems Engineer

F-35 Mission Systems Program Software Simulation Northrop Grumman Integrated Systems El Segundo, California

Shilpa Bhadaliya
Glenn Glasell
Byron Lo
Jared Stout

Team Members

Tri DeSa
Suresh Goel
Judy Luhn
Paul Tsutsui

Justin Duong
Kim L. Johnson
Kevin Stigerts
Gary Wemmerus

Accepting the Project Award
Kim L. Johnson
Systems Simulation Lead



Selective Laser Sintering Production Process Transition Boeing Rocketdyne Propulsion & Power Canoga Park, California

Neil E. Bussiere
Cynthia Flores
William A. Lamey-III
Steven K. Ricklefs
Tracy L. Taylor

Team Members

John R. Chavez
Gary A. Hebdon
Maria R. Reyes
Kenneth S. Simpson
John J. Wang

Jeffrey E. Fink
Diane M. Kammerich
Clifford M. Rice
Susan M. Stern
Rethia B. Williams

Accepting the Project Award
Steven K. Ricklefs
Director



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



DoD Spectrum Efficient Technologies Development 412th TW Engineering Directorate Edwards Air Force Base, California

Mark Brown
Tony Cirineo
Rich Formeister
Robert Jefferis
Gene Law
Moises Pedroza
Daniel Schaefer

Team Members

Chuck Bush
Franco De Flaviis
Tim Iacobacci
Michael Jensen
Steven O'Neal
Michael Rice
Kip Temple
Tsun-Yee Yan

Tai-Tseng Chu
Patrick Feeley
Dan Jablonski
Dan Laird
Saul Ortigoza
Marvin Ryken
Glen Wolf

Accepting the Project Award
Saul Ortigoza
Technical Lead

Morphing Aircraft Design Demonstration Lockheed Martin Aeronautics Company Fort Worth, Texas

Bill Benner
Steve Combs
Paul McClure
Steve Rizk

Team Members

Ken Bordignon
Jason Guyton
Doug McMahon
Patrick Roney

Derek R. Bye
Bryan Guzzardo
Doug Neff
Ronald Stroud

Accepting the Project Award
Derek R. Bye
Principal Aeronautical Engineer



Fire Scout VTUAV Relative Route Approach Demonstration Northrop Grumman Integrated Systems Rancho Bernardo, California

Daryl Abling
Fu Chen
Lisa DeRose
Leo Fischer
Sal Gomez
Mike Havens
Barry Lilore
Bob Navorro
Ron Prentice
Jeff Stillman
Paul Valdes

Team Members

Jon Almond
Josh Coleman
Jim Divinski
Brian Germain
Pat Griffin
Kevin Kelleher
Mike Mann
Ray Patino
Tom Riley
Ron Theoldore
Allen West

Mark Bradshaw
Dave Cunningham
Mike Engle
Leroy Goering
Sean Hannan
Jim Kendrick
Ed McCowan
Howard Peppito
Mike Roberts
Quangh Diep Tran
Naji Yakzan

Accepting the Project Award
Allen West
Systems Test Manager



Special Presentation

Clarence L. "Kelly" Johnson Memorial Skunk Works Award 2004

Presented by

Frank Cappuccio

Vice President & General Manager, ADP
Lockheed Martin Aeronautics Company
Palmdale, California

to

Harold W. Blot

Lieutenant General (ret.)
United States Marine Corps
X-35 VP & Deputy Program Manager (ret.)
Lockheed Martin Aeronautics Company



Lt. Gen. Harold W. Blot

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

Kelly played a leading role in the design of more than forty aircraft including the P-38 Lighting, the Constellation transport, the P2V Neptune 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 Clarence L. "Kelly" Johnson Memorial 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.

Past Recipients

First Presentation was to

Clarence L. "Kelly" Johnson (Posthumously)

Accepted by his wife Nancy	1992	Lt. Gen. George K. Muellner, USAF	1998
Lt. Gen. James A. Fain Jr., USAF	1993	Natalie W. Crawford	1999
Major Gen. Richard Scofield, USAF	1994	Burt Rutan	2000
Ben R. Rich (Posthumously)	1995	Sherman N. Mullin	2001
Gen. Joseph W. Ralston	1996	Lt. Gen. Bruce Carlson, USAF	2002
Gen. Howell M. Estes III	1997	Lt. Gen. Michael A. Hough, USMC	2003

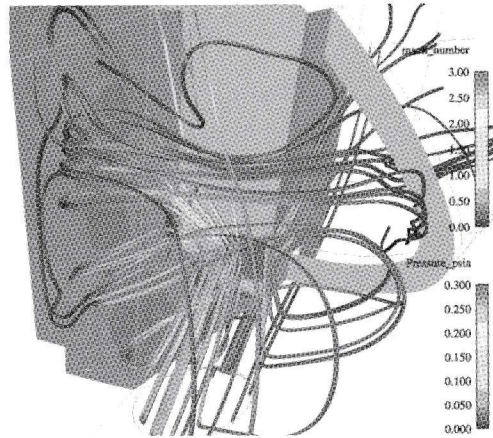
Lockheed Martin Aeronautics Company...

Proudly congratulates the
2004 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.



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



Space Shuttle Columbia Accident Investigation CFD Analysis

Boeing Rocketdyne Propulsion & Power
Canoga Park, California

Shashikanth Aithal
William C. Bowling, Jr.
Yann-Fu Hsu
Dale K. Ota
Vijaya Shankar

Team Members
Edward P. Ascoli
Willard C. Clever
Michael A. Jacques
S. V. Ramakrishnan
Mark R. Stewart
Wallace T. Welder

Steven L. Barson
Scott D. Halloran
Zhining Liu
Touraj Sahely
Kuo-Yen Szema

Accepting the Project Award
Scott D. Halloran
Associate Technical Fellow

Global Hawk German Demonstration

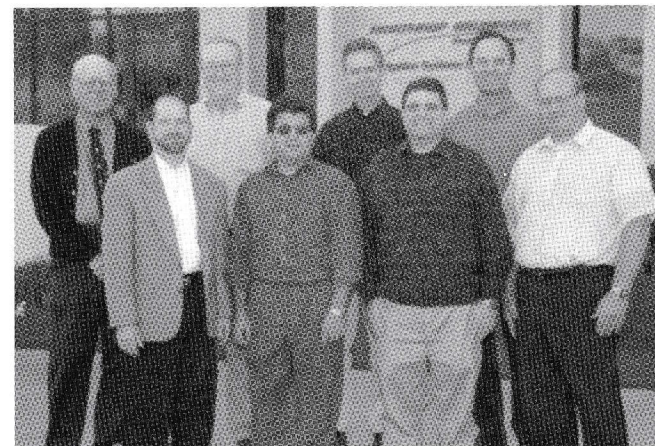
Northrop Grumman Integrated Systems
San Diego, California

Ezra Browning
Joe Danlovich
Michael Hansberry
James Kohn
Bret Miller
Dave Picard
Jeffrey Stucke

Team Members
Michael Callahan
Chuck Gardner
Jeffrey Howard
Joe Lines
Brad Norman
Adam Pierce
Tom Wayne

Terrance Collins
Kenny Hadden
Brian Kille
Peter Masson
Jerry Owen
Michelle Selberg
Russell Wright

Accepting the Project Award
Russell Wright
Chief Engineer



Frequency Division Multiplexed All Optical Sonar System Development

Northrop Grumman Navigation Systems
Woodland Hills, California

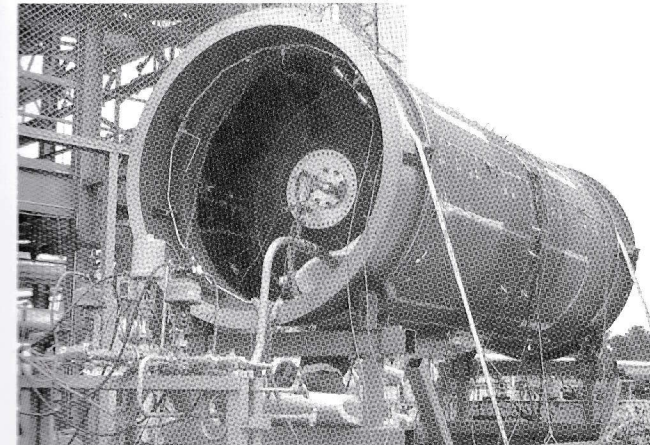
Rita Abraham
Jim Arroyo
David Hall
Mike Tweedy

Team Members
Akbar Arab-Sadeghabadi
Calvin Au
David Naismith
Pat Welton

Skip Gregg
Marty Schwartz

Accepting the Project Award
Marty Schwartz
Director

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



Reusable Cryogenic Lightweight Carbon Composite Demonstration

Northrop Grumman Integrated Systems
El Segundo, California

Erv Baumann
Steve Cowls
Michael Kobzan
Brent Meredith
Don Pousha
Chandu Shah
Allen Soule
Larry Wilkie

Team Members
Richard Biegner
Dick Crabb
Andre Lavoie
Robert Moore
Bob Rivard
Bill Sheppard
Jerry Stuart
Jim Yahiro

Jim Bohlen
Richard Grover
Steve McCleskey
Tod Palm
Wayne Schmidt
Robert Skidmore
Donny Wang
Anna Yen

Accepting the Project Award
Tod Palm
IPT Leader

Space Shuttle Columbia Accident Investigation Thermal Analysis

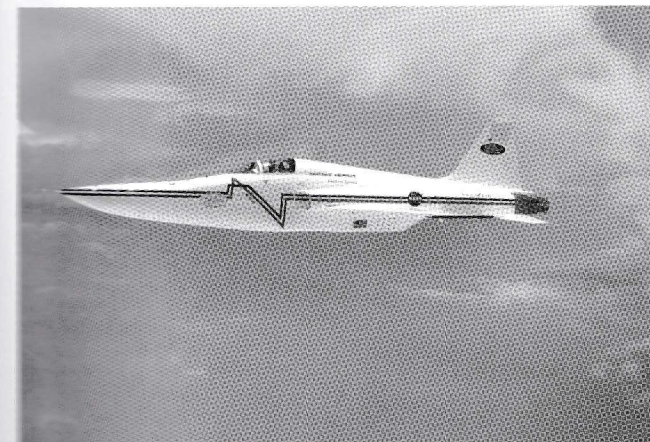
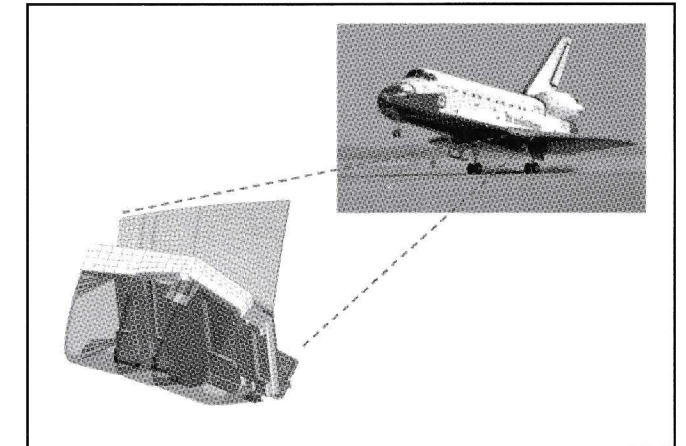
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

Kevin G. Bowcutt
John I. Fasheh

Team Members
Pai-Ho Chang
Atul B. Mathur
Kaye H. Yun

Adon Delgado Jr.
Donald J. Picetti

Accepting the Project Award
John I. Fasheh
Senior Engineer



Sonic Boom Mitigation Program Flight Demonstration

Northrop Grumman Integrated Systems
El Segundo, California

Keith C. Applewhite
Peter G. Coen
Edward A. Haering-Jr
Roy Martin
Lewis B. Scherer

Team Members
Richard C. Biegner
John A. Dahlin
Mike Ingalls
Keith B. Meredith
Mark J. Smith
Eric J. Vartio

Charles H. Boccadoro
David H. Graham
Steven M. Madison
Joseph W. Pawlowski
Jay L. Vadnais

Accepting the Project Award
Joseph W. Pawlowski
Project Manager

DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2004



UPX-39 Monopulse Secondary Surveillance Radar Development

Northrop Grumman Navigation Systems
Woodland Hills, California

<i>Yair Alon</i>	<i>Kyle Bailey</i>	<i>John DePriest</i>
<i>Fred Erickson</i>	<i>Mark Jacobs</i>	<i>Haik Kafadarian</i>
<i>Neal Keane</i>	<i>Dennis R. Miller</i>	<i>Eric Mitobe</i>
<i>Leigh Murphy</i>	<i>Wally Nakamura</i>	<i>Don Wagenbach</i>
<i>Garth Weals</i>	<i>Jim Weekley</i>	

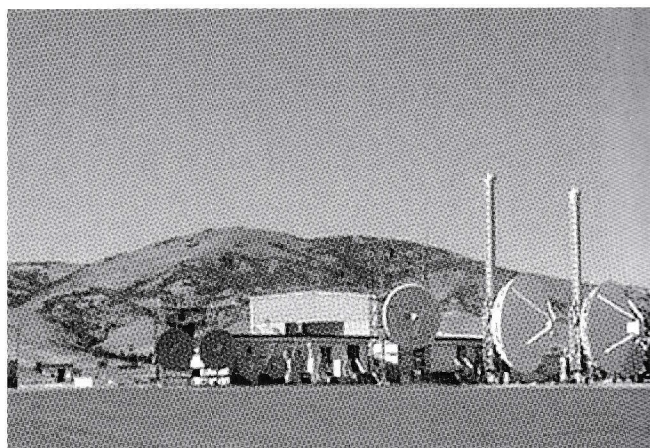
Accepting the Project Award
Dennis R. Miller
Program Manager

Tejon Test Site Radar Cross Section Range Certification Test

Northrop Grumman Integrated Systems
Rosamond, California

<i>Wayne Clapsaddle</i>	<i>Henry C. Garretson-III</i>	<i>Carl Johnson</i>
<i>Mark Mayfield</i>	<i>Steve Mings</i>	<i>Gordon Moore</i>
<i>Jesse Ralph</i>	<i>Keith Rich</i>	<i>Glen Uhley</i>
	<i>Robert Walker</i>	

Accepting the Project Award
Henry C. Garretson III
Engineer

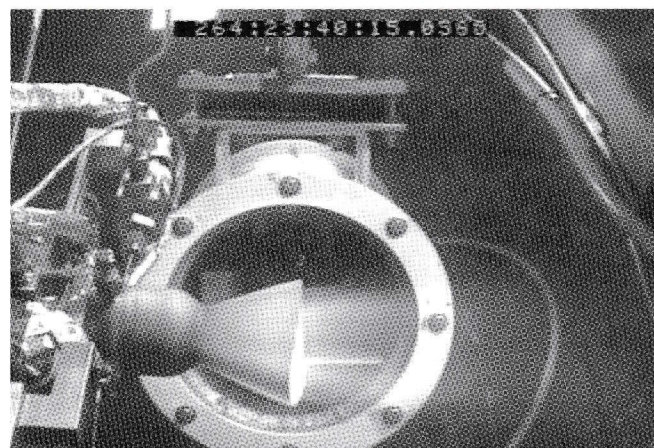


THAAD Divert Thruster Instability Resolution

Boeing Rocketdyne Propulsion & Power
Canoga Park, California

<i>John M. Carroll</i>	<i>Gayle L. Danko</i>	<i>Frederick E. Dodd</i>
<i>Christopher B. Greene</i>	<i>Kevin A. Gulbrandsen</i>	<i>Carlo Hormozian</i>
<i>Robert J. Jensen</i>	<i>James Nestlerode</i>	<i>Cecelia J. Scalvini</i>
<i>Peter A. Schilhavy</i>	<i>Michael G. VanMeter</i>	<i>Brian S. Wygle</i>

Accepting the Project Award
James Nestlerode
Consulting Engineer



Share information,
share victory



Northrop Grumman Integrated Systems and the Engineers' Council
Congratulates these Teams for their Accomplishments

GLOBAL HAWK

Systems Engineering
Risk Management Model and Database Development
System Safety and Reliability
Operation Enduring Freedom Team

PEGASUS DEVELOPMENT TEAM

B-2 SOFTWARE ENGINEERING INSTITUTE LEVEL 5 RATING

ENGINEER OF THE YEAR AWARD 2004

and

PETER RECCHIA OMNI MEMORIAL AWARD 2004

Presented by the 2003 Award Recipient

E.R. "Ed" Glasgow

Technical Vice President for ADP
Lockheed Martin Aeronautics Company
Palmdale, California

to

Norman S. Sakamoto

Vice President
Northrop Grumman Corporation
San Diego, California



Norman S. Sakamoto

PETER RECCHIA OMNI MEMORIAL AWARD 2003

Permanent Replacement Trophy

Presented by

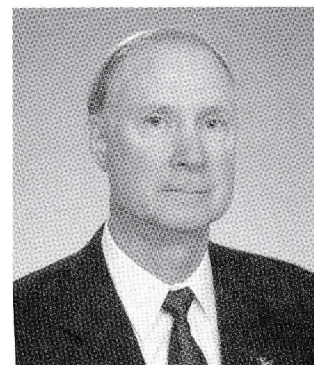
Maynard L. "Joe" Stangeland

Chief Designer
Boeing Rocketdyne Propulsion & Power
Canoga Park, California

to

E.R. "Ed" Glasgow

Technical Vice President for ADP
Lockheed Martin Aeronautics Company
Palmdale, California



E.R. "Ed" Glasgow

The Recchia Omni Memorial Award

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

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
- 1999 Robert Goetz, V.P. Engineering, Lockheed Martin Skunk Works, Palmdale, CA
- 2000 Dr. Michael E. Polites, Deputy Manager, Avionics Dept., NASA/Marshall Space Flight Center, Huntsville, AL
- 2001 Dr. Charles Volk, Vice President Engineering, Litton Guidance & Control Systems, Woodland Hills, CA
- 2002 Maynard L. "Joe" Stangeland, Chief Designer, Boeing Rocketdyne Propulsion & Power, Canoga Park, CA
- 2003 E.R. "Ed" Glasgow, Technical V.P. for ADF, Lockheed Martin Aeronautics Co., Palmdale, CA

Congratulations and Best Wishes!

2004 Engineers' Week Honorees

College of Engineering & Computer Science

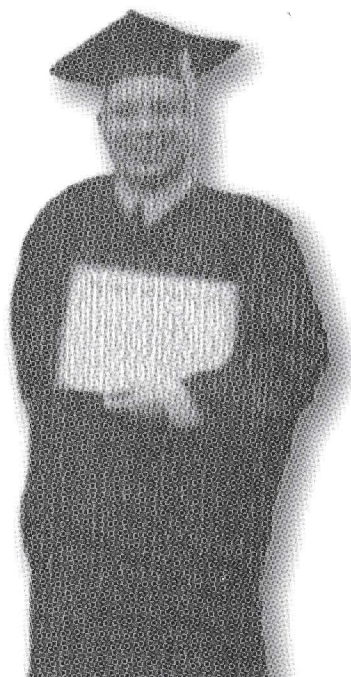
California State University
Northridge

LLOYD W. HIGGINBOTHAM SCHOLARSHIP ENDOWMENT FUND

CSUN Foundation

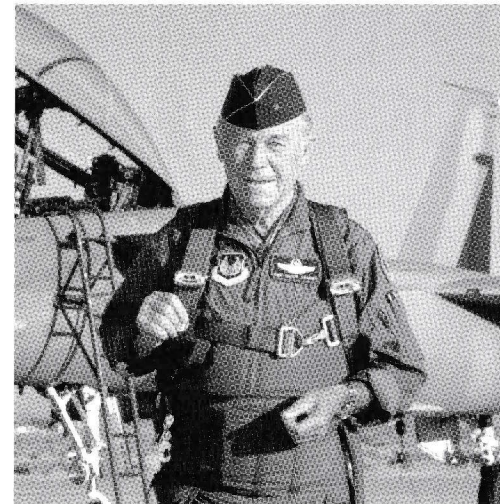
Special Thanks to Ernest Schaeffer and the Engineers' Council for their initial contributions to establish the Higginbotham Scholarship Endowment Fund

Thanks to all who have contributed to the fund, which is administered by the CSUN Foundation. With your ongoing assistance, we will meet our goal of establishing this permanent endowment fund to provide assistance to engineering students at California State University Northridge



★ **General Chuck Yeager Foundation**

P.O. Box 579
Penn Valley, CA 95946



www.GeneralChuckYeager.com

Mission Statement

The General Chuck Yeager Foundation is dedicated to the enhancement and enrichment of young people's lives through programs that are focused on the principals that Chuck Yeager has exemplified.

These include the thirst for knowledge in scientific fields including aviation, perpetuating the idea of honor and dedication to serve one's fellow man and one's country, and preserving the ideals and image of an American hero.

MATHCOUNTS 2004

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 fifteenth year for the NSPE MATHCOUNTS PROGRAM.

Local MATHCOUNTS competition is supported by the Southern Chapters Council of the California Society of Professional Engineers (CSPE). Support at the State and National level for the NSPE MATHCOUNTS competition is by major corporations and local business.

**THE ENGINEERS' COUNCIL, NORTHRIDGE, CALIFORNIA
RECOGNIZES AND CONGRATULATES THE AWARD
WINNERS IN THE 2004 COMPETITION.**

Congratulations!

To
**2004 NATIONAL ENGINEERS
WEEK HONOREES**

And

*Thank You to
Engineers' Council Participating Organizations*

AIAA San Fernando Valley	CSUN/CECS	Northrop Grumman Integrated Systems
Air Force Flight Test Center Edwards Air Force Base	CASA/SME Orange Coast Section	Northrop Grumman Navigation Systems Division
ASM San Fernando Valley	IEEE Los Angeles Council	SAWE International
Boeing Rocketdyne Propulsion & Power	IEEE San Fernando Valley	SME Canoga Park
BEI Technologies, Inc.	JPL/NASA	SME Los Angeles Area Manufacturing Management
CSPE Southern Chapters Council	Lockheed Martin Aeronautics Company	



**San Fernando Valley
Engineers' Council**

NORTHRIDGE, CALIFORNIA

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