

# ENGINEERS' COUNCIL

*Northridge, California*

*51<sup>st</sup> Anniversary*

**HONORS AND AWARDS BANQUET**

**Saturday, February 25, 2006**

**Souvenir Program**



Keynote Speaker &  
Honorary Engineer of the Year  
**Honorable Curt Weldon**  
*United States Congressman  
Pennsylvania*



Engineer of the Year  
**John B. Plowden**  
*General Manager  
Pratt & Whitney Rocketdyne  
Customer Site Operations*

*In Celebration of National Engineers Week February 19-25, 2006*

# 2006 NATIONAL ENGINEERS WEEK COMMITTEE

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Lockheed Martin Aeronautics Company

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DDG Cryogenics

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Agusta Aerospace Corporation

## *Committee Members*

*Dr. Narisa N.Y. Chu, IEEE*  
California State University, Northridge

*Walter Korp, SME*  
Technical Associates

*Larry Dalton, IEEE/PES, FIAE*  
Los Angeles Department of Water & Power

*Charles C. Olsefsky, P.E., FIAE, IEEE*

*Ken Futernick, SME, FIAE*  
AATLAS Industrial Equipment

*George Ortega, SHPE*  
City of Burbank

*William J. Johnson, CASA/SME*

*R.L. "Ron" Rogers, AIAA*  
Northrop Grumman Integrated Systems

*Jagadish Kariappa, SME*

*Ray F. Straub, SME*  
Accurate Engineering Services

*Special Thanks* to the follows for their generous support:

- Pratt & Whitney Rocketdyne Graphics & Publications for production of the Souvenir Program and support to production of the framed awards.
- General Chuck Yeager Foundation for contributing to the 2006 LA County Science Fair Scholarships.
- Lockheed Martin Aeronautics Company for assistance with the cost of audio/video support.
- Northrop Grumman Integrated Systems for providing a professional photographer for our event.
- All of our Souvenir Program advertisers.

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**Presidential Message for National Engineers Week  
February 19-25, 2006**



**THE WHITE HOUSE**

**WASHINGTON**

December 14, 2005

I send greetings to those observing National Engineers Week.

America has a rich history of exploration and discovery, marked by Scientific and technological achievement that have transformed the world. Through their dedication to the advancement of knowledge, engineers expand the realm of possible and contribute to our Nation's prosperity. This week is an opportunity to reflect on the importance of continuing our progress and laying the groundwork for the future of continued innovation.

I appreciate engineers for your commitment to excellence and for Your effort to inspire curiosity and a passion for discovery in the next generation of engineers. Your good work helps ensure that our country is at the forefront of technology and development for decades to come.

Laura and I send our best wishes.

A handwritten signature in black ink, appearing to read "Barack" followed by a flourish.

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**ENGINEERS' COUNCIL**  
*Northridge, California*

**1955**

*A Brief History*

**2006**

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 the largest Annual 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. Since then, 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 the 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 thousands of 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 Honors & Awards Banquet are used to fund the Engineers' Council scholarship programs, high school mentoring program, and middle-school math and science educational enrichment program.

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***San Fernando Valley Engineers' Council***  
*Northridge, California*

**51st Anniversary**  
***Honors & Awards Banquet***

*Saturday, February 25, 2006*



***Reception – 5:00 p.m.***

***Welcome & Introductions – 6:00 p. m.***

*Paul F. Landry*

***Dinner***

***Presentation of Awards - 7:00 p.m.***

***Keynote Address***

*Honorable Curt Weldon*

***Masters of Ceremony***

*Paul F. Landry*

*Robert B. Tarn, FIAE, AIAA*

*R. L. “Ron” Rogers, AIAA*

*Dr. Charles H. Volk, IEEE*

***Closing***

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**OUTSTANDING ENGINEERING  
ACHIEVEMENT MERIT AWARDS 2006**

**Jeffrey E. Anders**

Quality Test Specialist  
The Boeing Company  
Canoga Park, California

*“For development of a unique inspection procedure for determining material displacement on the Knife Edge Seals of the Space Shuttle Main Engine High Pressure Oxidizer Turbopump”*

**David J. Borden**

Flight Test Specialist  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance, mastering the engineering skills and developing the critical knowledge required as a Flight Test Engineer”*

**Benjamin W. Ankrum**

AHFM IPT Lead  
Northrop Grumman Corporation  
Palmdale, California

*“For key contributions to the success of the AHFM program, providing benefit to the Air Force in terms of reduced maintenance cost”*

**Fred Cohen**

Sr. Engineering Specialist  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For successful operation of battery subassembly units, providing continuous power for the International Space Station and Space Shuttle”*

**Jack P. Baas**

Propulsion Engineer  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance and mastering the engineering skills as a propulsion engineer”*

**Russell Coons**

Mechanical Engineer Staff  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance and mastering the engineering skills and obtaining critical knowledge as a design engineer”*

**Ali Beigali**

Electronics Engineer  
United States Navy  
Point Mugu, California

*“For innovations in the field of Electronic Warfare”*

**Amitabha DebChaudhury**

Associate Technical Fellow  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For providing the highest level of creativity and dedication by creating the Robust Optimization capability at Pratt & Whitney Rocketdyne in support of all new rocket engine and energy programs”*

**Dr. Patrick B. Berbon**

Managing Partner  
DDG Cryogenics  
Santa Barbara, California

*“For his drive and success as an Entrepreneur in Materials Science and Technology Transfer and his Outstanding leadership to the Council EWeek Technical Symposium on “The Nanotechnology Revolution”*

**David M. Fellbaum**

RS-68 Turbomachinery Lead  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For outstanding contributions to the design, development and flight worthiness of the RS-68 Rocket Engine System Turbomachinery”*

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# **OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS 2006**

## **Gerard C. A. Fonte**

Principal Engineer/Owner  
The PAK Engineers  
East Amherst, NY

*“For 22 years of scientific innovation, discovery, and contributions to the profession through technical publications, mentoring, and stimulating interest in science & engineering”*

## **Anil A. Kumar**

Range Infrastructure Development Engineer  
Air Force Flight Test Center  
Edwards AFB, California

*“For singularly distinguished technical accomplishment in support of the Air Force Flight Test Center, reflecting great credit upon himself, his family, and the United States Air Force”*

## **Dr. Xiaojun Geng**

Assistant Professor  
California State University, Northridge  
Northridge, California

*“In recognition of outstanding research achievement in the field of automatic control of asynchronous machines and the development of state-of-the art educational materials in micro-processor systems”*

## **J. Thomas Lawry**

Manager, F-117 Propulsion Integration  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“Mr. Lawry’s leadership assured the technical integrity of the F-117 Propulsion system and the rapid restoration of the F-117 fleet to full operational status”*

## **James B. Haug**

Lead Engineer  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For outstanding execution and leadership of the test operations and data analysis during the RS-68 “4 x life engine endurance demonstration” engine hot fire test series”*

## **Dr. Chi-Tsen (C. T.) Lin**

Professor  
California State University, Northridge  
Northridge, California

*“In recognition of outstanding contribution to bringing state-of-the-art knowledge in automation technology and robotics to engineering education and practicing interdisciplinary cooperation in research and education in biomedical engineering”*

## **Cynthia Zaffuto Hicks**

RFINT Project Manager, U-2 Program  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“It is with great pride and pleasure that Ms. Cynthia Hicks be recognized for her significant leadership contributions to U-2 Mission Systems Integration and to the Radio Frequency Intelligence Systems Programs”*

## **Jack Lucas**

Navigation Responsible Engineer  
Northrop Grumman Corporation  
Palmdale, California

*“For devotion to duty, management, and technical expertise as a key contributor to successful development and flight test of the advanced avionics systems of the USAF and Northrop Grumman B-2 Spirit bomber”*

## **Robert D. Johnson**

AHFM RRPI IPT Lead  
Northrop Grumman Corporation  
Palmdale, California

*“For leading the Northrop Grumman team in successful Rapid Response Process Improvement, enabling repeatable high volume AHFM production and regaining B-2 Enterprise confidence in the material producibility”*

## **Anthony D. McKinney**

Materials Design Engineer  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance and mastering the engineering skills and knowledge as a special materials design engineer”*

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# **OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS 2006**

## **Darren M. McLaughlin**

Flight Operations Lead Engineer  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For outstanding and successful leadership of the RS-68 Launch Operations Team through the first four Delta IV Missions, including significant contributions to the inaugural Delta IV Heavy demonstration flight”*

## **Randall Monte**

Sr. Software Engineer  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For the development, deployment, and support of critical databases ensuring continued success for the U-2 program”*

## **Hector V. Ortiz-Perez**

Sr. Scientist  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For outstanding Engineering achievements in the area of thermal, stress and dynamics analysis of flight critical power converter hardware for the International Space Station and Space Shuttle”*

## **Susan Pertik**

Electronics Engineer Staff  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“Susan Pertik is being recognized for her significant contributions in meeting critical U-2 program tests objectives”*

## **Charles B. Pickett**

Senior Stress Engineer  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance and for mastering the skills and acquiring critical knowledge in the field of engineering”*

## **Raashi Quattlebaum**

ASIP Ass't Project Manager, U-2 Program  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“It is with great pride and pleasure that Ms. Raashi Quattlebaum be recognized for her significant leadership contributions to U-2 Mission Systems Integration and to the highly visible ASIP Program”*

## **Paul R. Strauss**

Structural Dynamics Engineer  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For demonstrated excellence in Structural Dynamics, and contributions allowing resolution of SSME dynamics issues prior to the Space Shuttle return to flight in 2005”*

## **Roland J. Szabo**

Sr. Engineer  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“For outstanding support to the Space Shuttle Orbiter Flowliner Investigation and “Safe to Fly” Rationale”*

## **Glen J. Tauke**

S/W Engineer Principal  
Lockheed Martin Aeronautics Company  
Palmdale, California

*“For outstanding performance in the area of flight control law development”*

## **Scott T. Trammell**

Flight Operations Engineer  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*“Outstanding technical leadership of the RS-68 Launch Operations team through the first Delta IV Heavy Mission and the subsequent resolution of the in-flight G9 leak anomaly”*



The College of Engineering & Computer Science  
and the Alumni Association at  
California State University, Northridge

*Congratulates its  
2006 Honorees!*

Xiaojun "Ashley" Geng  
C.T. Lin  
Benjamin F. Mallard

For information on our engineering and computer science programs,  
visit: <http://www.csun.edu/~ecsdean/>

**CSUN Engineering & Computer Science Alumni, you are invited to the  
ECS Alumni Chapter Networking Event**  
Friday, April 28, 2006, 6:00 to 8:00 p.m.  
Engineering Breezeway

**CSUN Alumni, you are invited to the  
2006 Distinguished Alumni Awards**  
Saturday, May 13, 2006, 6:30 p.m.  
Hollywood Renaissance Hotel at Hollywood and Highland

**Congratulations to Engineering & Computer Science DAA Alumnus honoree:**  
*Mory Ejabat, Chair and CEO of Zhone Technologies*

For information on these events, please contact the Office of Alumni Relations  
at 818.677.2137 or visit [www.csunalumni.com](http://www.csunalumni.com)

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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. Houghton, 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, Deputy Asst. Administrator for Commercial Programs, NASA Washington, D.C.
- 1989 Dennis E. Wisnosky, President, Wizdom Systems, Inc., Naperville, IL
- 1990 Dick Cheney, United States Secretary of Defense
- 1993 Daniel S. Goldin, NASA Administrator, NASA Hqts., Washington, D.C.
- 1994 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
- 2002 Hon. Donald H. Rumsfeld, United States Secretary of Defense, Washington, D.C.
- 2003 Brig. Gen. Charles E. Yeager, USAF (ret.)
- 2005 Hon. Sean O'Keefe, 10th NASA Administrator

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# Special Presentation

## Honorary Engineer of the Year Award 2006

Presented by

**Paul F. Landry**

President

San Fernando Valley Engineers' Council  
Northridge, California

to

**Honorable Curt Weldon**

United States Congressman  
Pennsylvania



*Honorable Curt Weldon*

Mr. Weldon is serving his 10th consecutive term representing the Seventh Congressional District of Pennsylvania. He served for six years as the Chairman of the Military Research and Development Subcommittee of the House Armed Services Committee, and now serves as the Vice Chairman of the full committee, Chairman of the Tactical Air and Land Forces Subcommittee, and is the leading House supporter of a National Missile Defense to protect America's families and communities.

As an influential member of the House Science Committee, Mr. Weldon has advocated protection of the environment and of our oceans, increased funding for oceanographic research projects, and funding for wildlife refuges and wetlands preservation.

Mr. Weldon has made improving relations with Russia one of his major efforts in the House, having worked with Russian leaders to improve Russia's energy supply, correct environmental damage, and protect both nations from ballistic missile attack.

Public recognition of Mr. Weldon's accomplishments includes the United States Chamber of Commerce Spirit of Enterprise Award, the Rotary International Paul Harris Fellow, the National Federation of Independent Business Guardian of Small Business Award, the Delaware County Chamber of Commerce Free Enterprise Award, an Honorary Doctorate of Laws from the Neumann College, an Honorary Doctorate of Public Service from West Chester University, the Community Action Association Outstanding Public Official of the Year Award, the Valley Forge Council, BSA, Good Scout Award, and the National Fire Protection Association Fire Safety Award.

In recognition of his outstanding contributions to our nation through his distinguished career as a public servant, scholar, author, environmental advocate, and trustee of our national security, the Honorable Curt Weldon is presented with the Engineers' Council Honorary Engineer of the Year 2006 Award.



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# San Fernando Valley Engineers' Council

NORTHRIDGE, CALIFORNIA

## *Congratulates* 2006 NATIONAL ENGINEERS WEEK HONOREES

*And*

### *Thanks Engineers' Week Participating Organizations*

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AIAA San Fernando Pacific

Air Force Flight Test Center  
Edward Air Force Base

The Boeing Company

CSUN/CECS

General Chuck Yeager  
Foundation

IEEE San Fernando Valley

JPL/NASA

Lockheed Martin  
Aeronautics

Northrop Grumman  
Integrated Systems

Northrop Grumman  
Navigation Systems

Pratt & Whitney Rocketdyne

SME San Fernando Valley

University of California  
Riverside

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Your participation enables us to further our mission, to promote science and engineering careers, provide educational enrichment in science and engineering, and recognize student achievement in the art and science of engineering for the general welfare of humankind.

In the year 2005, the Engineers' Council contributed to its educational and charitable programs, which included the following.

#### **Scholarships**

- CSUN Foundation Scholarship Funds
- Scholarships to graduating seniors from El Camino Real, William Howard Taft and Palmdale High Schools

#### **Educational Enrichment**

- Major Sponsor of LADWP/LAUSD Science Bowl
- Sponsor of CSPE MATHCOUNTS Competition at CSUN
- LA County Science Fair

#### **Engineering Education**

- Engineers Week Technical Symposium on Autonomous & Robotic Vehicle Technologies
- Edwards Flight Test Historical Foundation

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# ENGINEERING EDUCATOR OF THE YEAR AWARD 2006

Presented by

**Dr. Reza Abbaschian**

Dean  
Bourns College of Engineering  
University of California, Riverside

to

**Dr. Mihri Ozkan**

Assistant Professor  
University of California, Riverside



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The Engineering Educator of the Year Award is given in recognition of significant achievements by the professor in 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".

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Dr. Alfonso F. Ratcliffe, CSUN	1982	Dr. John W. Adams, CSUN	1994
Dr. Robert Y. Wong, CSUN	1983	Dr. Sembian R. Rengarajan, CSUN	1995
Dr. Edmond S. Gillespie, CSUN	1984	Dr. Roger Di Julio, CSUN	1996
Dr. Thelma Estrin, UCLA	1985	Dr. Martin S. Roden, CSULA	1997
Dr. Gregg W. Dixon, CSUN	1986	Dr. Ramin Roosta, CSUN	1998
Dr. Bonita J. Campbell, CSUN	1987	Dr. Helen A. Ryaciotaki-Boussalis, CSULA	2000
Dr. Diane Schwartz, CSUN	1988	Dr. Sharlene Katz, CSUN	2001
Dr. Larry Lichten, CSUN	1989	Dr. Stewart Prince, CSUN	2002
Dr. B. J. Shell, Northop University	1991	Dr. Nagwa Bekir, CSUN	2003
Dr. Mihran S. Agbabian, USC	1992	Tarek A. Shraibati, CSUN	2004
Dr. Michael Hassul, CSULB	1993	Dr. Robert G. Ryan, CSUN	2005

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# ***DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006***



## ***Falcon***

Lockheed Martin Aeronautics Company  
Palmdale, California

### ***Team Members***

<i>Robert I. Baumgartner</i>	<i>John B. Kalisz</i>	<i>Jordan S. Reaser</i>
<i>Teri K. Carlstrom</i>	<i>Daniel A. Klotz</i>	<i>Patrick E. Rodi</i>
<i>John D. Elvin</i>	<i>Ronnie D. Lawhon</i>	<i>Robin E. Vermeland</i>
<i>Ester E. Gravance</i>	<i>John C. Macguire</i>	<i>Robert J. Wetherall</i>
<i>Darryll E. Johnson</i>	<i>Christian H. Meyer</i>	<i>Brian J. Zuchowski</i>
	<i>Michael G. Rankin</i>	

### ***Accepting the Project Award***

**Robert I. Baumgartner**  
Program Senior Manager

## ***F/A- 18 Aircraft Environmental Control System/Liquid Cooling System Max Capacity Tests***

Northrop Grumman Corporation  
El Segundo, California

### ***Team Members***

<i>Joel L. Cleveland</i>	<i>Galen O. Becker</i>
<i>Terrell J. Haggerty</i>	<i>Albert Rodriguez</i>
<i>John P. Barnes</i>	<i>Donald Mihovil Jr.</i>
<i>John M. Zemitis</i>	<i>Alan D. Johnston</i>
<i>Mark D. Cayot</i>	<i>Dennis M. Powers</i>

### ***Accepting the Project Award***

**Joel L. Cleveland**  
Team Leader



## ***RS-27 Test Team*** The Boeing Company Canoga Park, California

### ***Team Members***

<i>Thomas R. Tarn</i>	<i>Joseph A. Silveri</i>	<i>Joseph R. Marko</i>
<i>Steven A. Dember</i>	<i>Thomas A. Littlefield</i>	<i>Richard D. Lee</i>
	<i>Charles D. Heinrich</i>	

### ***Accepting the Project Award***

**Thomas R. Tarn**  
Test Operations Project Lead

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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006

## *Global War On Terrorism Maintenance Team*

Northrop Grumman Corporation

San Diego, California

### *Team Members*

*Averell O. Anderson     Steve Wheat  
Jim Kohn                 Ron Bleyle  
Beckisue Roybal         Denise LaVigne*

### *Accepting the Project Award*

**Averell O. Anderson**  
Deployment Manager



## *Delta IV Heavy Demo MECO Anomaly Resolution*

### *Team*

Pratt & Whitney Rocketdyne

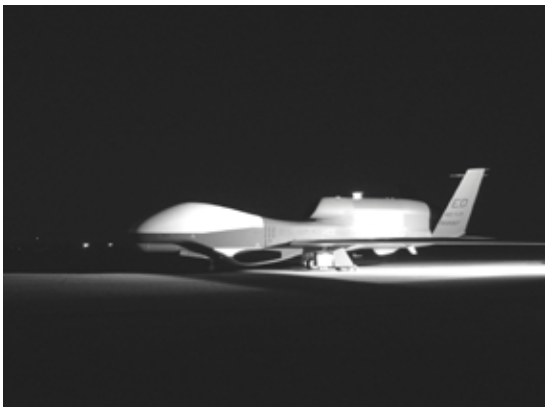
Canoga Park, California

### *Team Members*

*Steven R. Bennett     Paul F. Seitz  
Brian P. Boyce         Roland J. Szabo  
Willard C. Clever       Morgan Williams  
Reynaldo S. Principe   Brian S. Wygle  
                                 Barry Yao*

### *Accepting the Project Award*

**Steven R. Bennett**  
Engineer



## *High Band SigInt Integration Team*

Northrop Grumman Corporation


San Diego, California

### *Team Members*

*William S. Buchwald   Jim Arvin             Francisco Macias  
Wendy Schneider     Monty Hall           Brent Bremer  
                                 Mario Lopatriello*

### *Accepting the Project Award*

**William S. Buchwald**  
HBS Manager



Vision is the ability to turn  
dreams into deeds.

Northrop Grumman congratulates the  
2006 Distinguished Engineering Project Achievement Awards Winners.

BQM-34 Integrated Product Team  
BQM-74F Integrated Product Team  
F-35 SSOR Team • FSA for RQ-4A Team  
GHMD and CDD ISS Development Team  
Global War On Terrorism Maintenance Team  
HBS Integration Team  
Antelope Valley Test Equipment Development Team  
Aircraft Environmental Control System/ Liquid Cooling System Max Capacity Tests Team  
B-2 Windshield Design Improvement Team  
B-2 Air Vehicle Three Low Observables Team  
B-2 Systems Engineering Process Improvement Group  
B-2 Processor Modernization Team  
See and Avoid Team • HURT Program Team

**Mr. Benjamin Ankrum** Individual Award Nomination

**Mr. Robert Johnson** Individual Award Nomination

**Mr. Jack Lucas** Individual Award Nomination

**Mr. Douglas Wood** Jack Northrop Spirit of Innovation Award



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# Jack Northrop Spirit of Innovation Award 2006

Presented by

**Ron L. Rogers**

Manager

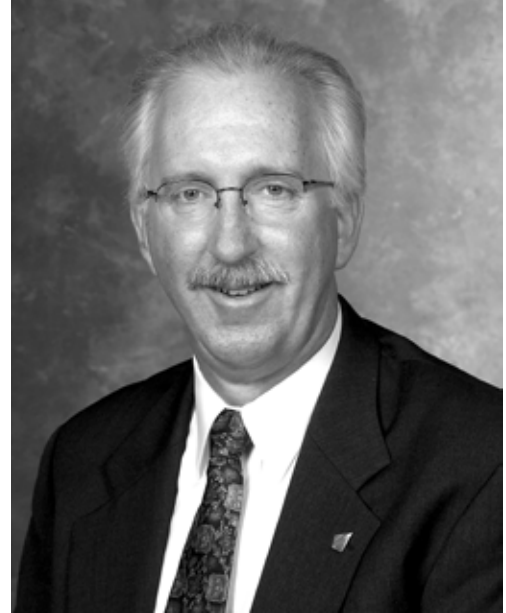
Engineering Program Integration  
Northrop Grumman Integrated Systems  
San Diego, California

to

**Douglas E. Wood**

Engineering Director

Northrop Grumman Integrated Systems  
Huntington Beach, California



Douglas E. Wood

The Engineers' Council bestows this award in honor of the individual technical contributions that inspire innovation and advance the progress of the industry.

The Jack Northrop Spirit of Innovation Award commemorates the vision, perseverance and engineering prowess reminiscent of Jack Northrop, whose achievements and techniques broke the barriers of traditional aircraft design.

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# DISTINGUISHED ACHIEVEMENT AWARDS 2006



## *Distinguished Engineering Achievement*

### **Lt. Col. Ronald L. Grove**

Deputy Director, Engineering Directorate  
Air Force Flight Test Center  
Edwards AFB, California

*For contributions to engineering within the Air Force acquisition workforce, covering computer network operations, information warfare assessments, and KC-135 aircraft modifications resulting in the success of numerous national defense programs*

## *Distinguished Engineering Achievement*

### **John A. Halchak**

Director, Material Applications Processes  
Pratt & Whitney Rocketdyne  
Canoga Park, California

*For Materials Engineering and Technology leadership, providing core materials and processes support to all Pratt & Whitney Rocketdyne programs, new materials and processes development, and reduction of hazardous materials from production usage*



## *Distinguished Engineering Achievement*

### **Lawrence I. Harzstark**

Associate PMP Director  
The Aerospace Corporation  
El Segundo, California

*For management of the Space Industry Tiger Team in support of USAF understanding of field programmable gate array anomalies and implementation of corrective actions*

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# DISTINGUISHED ACHIEVEMENT AWARDS 2006



## *Distinguished Engineering Achievement*

### **Eric Knutson**

Director  
Lockheed Martin Aeronautics  
Palmdale, California

*In recognition of outstanding contributions in creating both a market and product for multiple Government customers and successfully leading the new line of business for Lockheed Martin Aeronautics*

## *Distinguished Engineering Achievement*

### **Charles A. Lee**

Manager, Advanced Systems Architecture  
Northrop Grumman, Navigation Systems Division  
Woodland Hills, California

*For outstanding contributions in the development of inertial navigation systems and for leadership in the field of Systems Engineering*



## *Distinguished Engineering Educator*

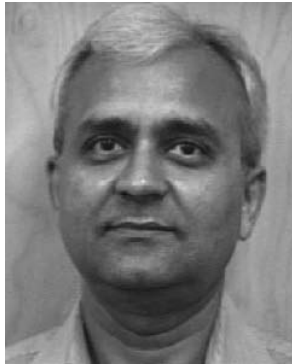
### **Benjamin F. Mallard**

Lecturer  
California State University Northridge  
Northridge, California

*For engaging engineering students in classroom and extracurricular activities, and applying state-of-the-art knowledge in microelectronics, integrated devices and circuit design to interesting real-world design problems*

---

# DISTINGUISHED ACHIEVEMENT AWARDS 2006



## *Distinguished Engineering Achievement*

### **Dr. Pradeep Raj**

Aeronautical Engineering Sr. Manager  
Lockheed Martin Aeronautics  
Palmdale, California

*In recognition of outstanding contributions in the management, development and application of technologies related to vehicle sciences and subsystems with lifelong emphasis on computational fluid dynamics and active flow control*

## *Distinguished Engineering Achievement*

### **Michael J. Sampson**

Program Manager  
NASA/Goddard Space Flight Center  
Greenbelt, Maryland

*For leading the International NASA Electronic Parts Assurance Group, setting the framework for microelectronic Mission Assurance for return to lunar exploration and the venture to MARS Manned Missions*



## *Distinguished Engineering Educator*

### **Ronald D. Smetzer**

Professor/Director  
LA Pierce College  
Woodland Hills, California

*In recognition of significant extra-curricular student mentoring and inspiring students to set and reach long-term educational and career goals beyond the immediate topic of today*

## *Distinguished Engineering Achievement*

### **Brian Tausig**

Acting Director - Engineering  
Lockheed Martin Aeronautics  
Palmdale, California

*In recognition of exceptional contributions to core Engineering and to the programs residing at the Palmdale facility*



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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *Aegis Ballistic Missile Defence Program Successful Flight Intercept*

Pratt & Whitney Rocketdyne

Canoga Park, California

### *Team Members*

<i>William A. Bauer</i>	<i>Matthew C. Widman</i>	<i>Victor Doan</i>
<i>Patrick A. Buckley</i>	<i>Jack L. McCalla</i>	<i>Hadi Darejeh</i>
<i>Deborah L. Koncel</i>		<i>David J. Lindsey</i>

### *Accepting the Project Award*

**Patrick A. Buckley**

Chief Project Engineer

## *BQM-34 Integrated Product Team*

Northrop Grumman Corporation

San Diego, California

### *Team Members*

<i>Bruce A. Shaw</i>	<i>Lee C. Bodenhamer</i>	<i>Scott A. Hunter</i>
<i>Robert J. Bell</i>	<i>Dr. Fu-Hau Ho</i>	<i>Keith A. Howe</i>
	<i>Fritz G. Anderson</i>	

### *Accepting the Project Award*

**Bruce A. Shaw**

IPT Lead

## *Antelope Valley Test Equipment Development*

Northrop Grumman Corporation

El Segundo, California

### *Team Members*

<i>Mike Beecher</i>	<i>Zachary Fisher</i>
<i>Elizabeth Hogan</i>	<i>Mark A. Anderson</i>
<i>Kevin Lefforge</i>	<i>Monty Hutto</i>
<i>Ron Seydel</i>	<i>Karen Campbell</i>

### *Accepting the Project Award*

**Michael P. Beecher**

Test Equipment Manager



## *Tactical High Energy Laser Modeling & Simulation Team*

The Boeing Company

West Hills, California

### *Team Members*

<i>Philip Dunlap</i>	<i>Shelly Eucker</i>	<i>Stewart Allen</i>
<i>Lynn Bonsall</i>	<i>Anthony Lashley</i>	<i>Chris King</i>
<i>James Robin</i>	<i>Grant Keller</i>	<i>Lathan Collins III</i>

### *Accepting the Project Award*

**Dr. Lynn Bonsall**

Senior Manager

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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



***HURT Program***  
Northrop Grumman Corporation  
El Segundo, California

*Accepting the Project Award*  
**Dwight E. Cass**      **Dr. H. R. Keshavan**  
Associate Technical      Technical Manager  
Fellow

## ***Space Based Infrared System Team***

Northrop Grumman Corporation  
Woodland Hills, California

### ***Team Members***

<i>Jerry Edwards</i>	<i>Jeff Dewey</i>	<i>Debbi Deane</i>
<i>George McCammon</i>	<i>George A. Clark</i>	<i>Carey Tate</i>
<i>David Chong</i>	<i>Rich Wohlers</i>	<i>Mike Case</i>
	<i>Eric Chin</i>	
	<i>Kayhan Tavasoli</i>	

*Accepting the Project Award*  
**Jerry Edwards**  
Engineering Manager



## ***Process Variation Reduction Team***

Pratt & Whitney Rocketdyne  
West Palm Beach, Florida

### ***Team Members***

<i>Rich Pugh</i>	<i>Reed Kakuska</i>
<i>Larry Witherup</i>	<i>John Hotchkiss</i>
<i>Dan Mulvihill</i>	<i>Steve Wood</i>
<i>Jim Couillard</i>	<i>Maurice Cabrera</i>
<i>Ed Walford</i>	<i>Gordon Steppens</i>
<i>Mike Paytas</i>	<i>Brett Scotten</i>
<i>Bill Askey</i>	<i>Tom Kmiec</i>

*Accepting the Project Award*  
**Danny E. Guisinger**  
Program Chief Engineer

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# William B. Johnson International Inter-Professional Founders Memorial Award 2006

Presented by

**Charles H. Volk**

Vice President & Chief Technologist  
Northrop Grumman Navigation Systems  
Woodland Hills, California

to

**Robert B. Tarn**

Sr. Engineer & Recognition Integrator  
Pratt & Whitney Rocketdyne  
Canoga Park, California



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 reflects his image

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## Past Recipients

William B. Johnson	1982	Byron K. Wood	1997
George J. Hallinan	1990	Jim Albaugh	1998
Dr. John J. Guarrera	1991	Sherman Mullin	1999
Lloyd W. Higginbotham	1992	James S. Paulson	2000
Roland V. Roggero	1993	Maynard "Joe" Stangeland	2001
Norman Shaffier	1994	John B. Plowden	2003
Alan R. "Al" Bjorklund	1995	Jeffrey S. Kincaid	2004
Jack L. Ferrell	1996	Capt. George T. Mellen II, USAF	2005



# General Chuck Yeager Foundation

P.O. Box 579  
Penn Valley, CA 95946



## 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.



*The Foundation is pleased to support the 2006 Los Angeles County Science Fair Scholarships with a gift of \$ 1,000, in honor of Bob Tarn's service to the General Chuck Yeager Foundation*

[www.ChuckYeager.com](http://www.ChuckYeager.com)



**American Institute of Aeronautics and Astronautics**

**San Fernando Pacific Section**

***Congratulates all Engineers Week Honorees***

**Including the Following AIAA Members**

**William B. Johnson Founders Memorial Award**

*Robert B. Tarn*

**Distinguished Engineering Achievement Award**

*Dr. Pradeep Raj*

**Outstanding Engineering Achievement Merit Award**

*Glen J Tauke*

**Distinguished Engineering Project Achievement Awards**

**Team Leaders**

*Robert I Baumgartner*

*Donald S. Stevenson*

*Donald S. McAlister*

**Team Members**

*Kenneth A. Cote*

*Daniel A. Klotz*

*William M. Munsch*

*John D. Elvin*

*Ronnie D. Lawhon*

*Robin E. Vermeland*

*Stephen G. Hanna*

*Greg J. Marien*

*Robert J. Wetherall*

*Gabriel R. Katell*

*Brian J. Zuchowski*



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# Brigadier General Charles E. “Chuck” Yeager International Aeronautical Achievements Award 2006

Presented by  
Brigadier General (ret.)  
**Charles E. Yeager**

to

**Lt.Col. Dawn M. Dunlop**  
Commander 586th Flight Test Squadron,  
46th Test Group  
Holloman Air Force Base, New Mexico



Dawn M. Dunlop

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 reflects a lifetime career of dedication to the progress of aerospace technology.

### Past Recipients

Brig. General 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	1990	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 Diax	1995	Col. Russell E. Schlee, USAF	2003
Jack Real	1996	Maj.General Doug Pearson, USAF	2004
		Roy Martin, NGC	2005

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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *Global Hawk Maritime and Congressional Demanded Demonstration Development*

Northrop Grumman Corporation  
San Diego, California

*Team Members*

<i>Venu Chivukula</i>	<i>Eric Bohley</i>	<i>Patrick Ryan</i>
<i>Craig Bosworth</i>	<i>Dan Greer</i>	<i>Mike Wilson</i>
	<i>Dan Caballero</i>	

*Accepting the Project Award*

**Venu Chivukula**  
Payloads Manager

## *Integrated Powerhead Rocket Engine Technology Demonstration*

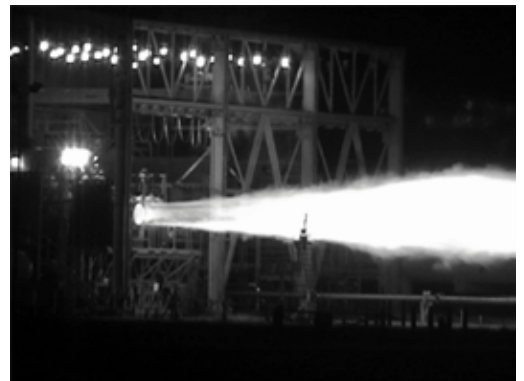
Pratt & Whitney Rocketdyne  
Canoga Park, California

*Team Members*

<i>William M. Munsch</i>	<i>Laura Brozowski</i>	<i>Stephen G. Hanna</i>
<i>Pankaj Goel</i>	<i>Kin C. (Danny) Woo</i>	<i>Rosemarie Hernandez</i>
<i>Dave Fleck</i>	<i>Lou Rojas</i>	<i>Terry Pollen</i>
<i>Gary Gebert</i>	<i>Julie Smith</i>	<i>Grant Hart</i>
	<i>Tai Yu</i>	

*Accepting the Project Award*

**Donald S. McAlister**  
Program Manager



## *B-2 Air Vehicle Three Low Observables Restoration*

Northrop Grumman Corporation  
Edwards AFB, California

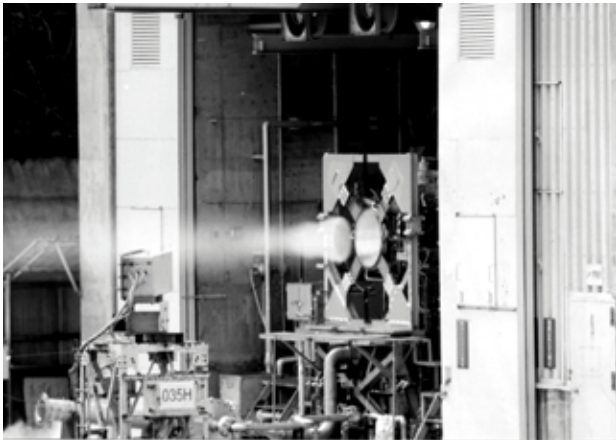
*Team Members*

<i>John Studt</i>	<i>David Goodwin</i>	<i>Joe Rivas</i>
<i>Terri Shout</i>	<i>Theron Hall</i>	<i>Wayne Deleew</i>
<i>Mark Meeks</i>	<i>Rodger Hecht</i>	<i>Karen Chappel</i>
<i>Jim Diefenderfer</i>	<i>Jeff Huerta</i>	<i>Anne Houle</i>
<i>Charles Shea</i>	<i>Dean Warren</i>	<i>Esther Hernandez</i>
	<i>Tim Johnson</i>	

*Accepting the Project Award*

**Tim Johnson**  
Air Vehicle 3 Manager

# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *MB-XX Engine Development & Test*

Pratt & Whitney Rocketdyne  
Canoga Park, California

### *Team Members*

<i>William F. Sack</i>	<i>Charlie Hoover</i>
<i>Thaddeus Chilcoat</i>	<i>John Keba</i>
<i>Dave Ewing</i>	<i>Rory Trujillo</i>
<i>Tom Henderson</i>	<i>Julie Watanabe-Sloan</i>

### *Accepting the Project Award*

**William F. Sack**  
Program Manager

## *Unmanned Air Vehicles See and Avoid Development*

Northrop Grumman Corporation  
El Segundo, California

### *Team Members*

<i>Won-Zon Chen</i>	<i>Deena Tin</i>	<i>Fabricio Guzman</i>
<i>Eric Portilla</i>	<i>Julieta Lercari</i>	<i>Cedric Ma</i>
<i>Omid Shakernia</i>	<i>Bruce Awalt</i>	<i>Skye Otten</i>
<i>Jan De Luca</i>	<i>Alex Fung</i>	<i>Leo Wong</i>
	<i>Carlo Maranan</i>	

### *Accepting the Project Award*

**Won-Zon Chen**  
Technical Fellow

## *B-2 Systems Engineering Process Improvement Group*

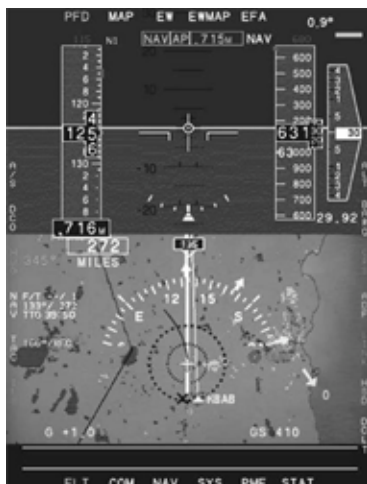
Northrop Grumman Corporation  
Palmdale, California

### *Team Members*

<i>Carl D. Dever</i>	<i>Ron Naylor</i>
<i>Mark N. Mithers</i>	<i>Paul Balke</i>
<i>Patricia Brault</i>	<i>Michael Wallace</i>

### *Accepting the Project Award*

**Carl D. Dever**  
B-2 Deputy Chief Engineer



## *Block 20 Avionics Software Upgrade*

Lockheed Martin Aeronautics Company  
Palmdale, California

### *Team Members*

<i>Marcie Abbott</i>	<i>John Doolittle</i>	<i>Chris Londergan</i>
<i>Joey Backenstoe</i>	<i>Bruce Fox</i>	<i>Chris Martin</i>
<i>Larry Bialecki</i>	<i>Verna Griffin</i>	<i>Susan Pertik</i>
<i>Mike Brethour</i>	<i>Bob Haines</i>	<i>Tom Poulter</i>
<i>Jim Conrad</i>	<i>Michelle Johnston</i>	<i>Gabe Restine</i>
<i>LaVor Deuel</i>		<i>Kyle York</i>

### *Accepting the Project Award*

**Verna A. Griffin**  
Project Engineer

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# Lockheed Martin Aeronautics Company. . .

Proudly congratulates the  
2006 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.



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# Clarence L. "Kelly" Johnson Memorial Skunk Works Award 2006

Presented by

**Frank Cappuccio**

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

to

**Dr. Anthony J. Tether**

Director  
Defense Advanced Research Projects Agency  
Arlington, Virginia



Dr. Anthony J. Tether

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 sly 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 he 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 wards, 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 Society 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 program of the future.

### Past Recipients

Clarence L. "Kelly" Johnson (Posthumously)	1992	Natalie W. Crawford	1999
Lt. Gen. James A. Fain, Jr., USAF	1993	Burt Rutan	2000
Major Gen. Richard Scofield, USAF	1994	Sherman N. Mullin	2001
Ben R. Rich (Posthumously)	1995	Lt. Gen. Bruce Carlson, USAF	2002
Gen. Joseph W. Ralston, USAF	1996	Lt. Gen. Michael A. Hough, USMC	2003
Ge. Howell M. Estes III, USAF	1997	Lt. Gen. Harold W. Blot, USMC (ret.)	2004
Lt. Gen. George K. Muellner, USAF	1998	Dain M. Hancock, LMAC	2005

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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *BQM-74F Integrated Product Team*

Northrop Grumman Corporation  
San Diego, California

### *Team Members*

<i>Gary L. Longtin</i>	<i>Fu-Hau Ho</i>	<i>Marlie A. Selke</i>
<i>Daniel O. Santos</i>	<i>Edwin N. Roeske</i>	<i>David T. Lu</i>
<i>Greg J. Marien</i>	<i>Kenneth A. Cote</i>	<i>Paul C. Wilfong</i>
<i>Charles Fiscina</i>	<i>Robert A. Barger</i>	<i>John A. Vanderslice</i>
<i>Robert C. Hastings</i>	<i>Daniel R. Gerdes</i>	<i>Keith Howe</i>
<i>Mike Bozир</i>	<i>Kenneth Brevig</i>	<i>Sean Ni</i>
	<i>Arthur Prast</i>	

### *Accepting the Project Award*

**Gary L. Longtin**  
IPT Lead, Manager

## *Deep Impact Inertial Reference System*

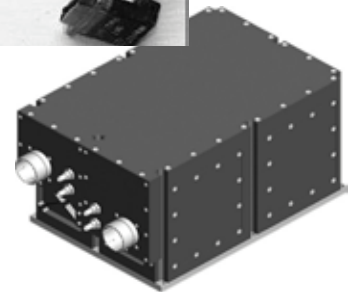
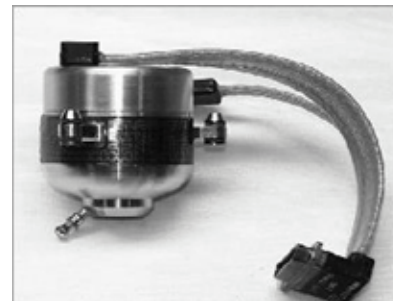
Northrop Grumman Corporation  
Woodland Hills, California

### *Team Members*

<i>John Bellasalma</i>	<i>Kayhan Tavasoli</i>
<i>James Campanile</i>	<i>Miguel Ochoa</i>
<i>John Kenyon</i>	<i>Eric Chin</i>
<i>Frank Landavazo</i>	<i>David Rozelle</i>

### *Accepting the Project Award*

**John S. Bellasalma**  
Systems Engineer



## *747 Large Cargo Freighter Section 41 Structural Modification*

Pratt & Whitney Rocketdyne  
Canoga Park, California

### *Team Members*

*David M. Johnson*  
*Eric J. Krieg*  
*Roger E. Berenson*

### *Accepting the Project Award*

**Jon C. Volkmann**  
Program Manager

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# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *Fielding Strategy Development For RQ-4A*

Northrop Grumman Corporation  
San Diego, California

### *Team Members*

<i>Mike Mackey</i>	<i>Rho Cauley</i>	<i>Dave Yackel</i>
<i>MyMy Dao</i>	<i>Nancy Chugon</i>	<i>Tom Malia</i>
<i>Alden Holmes</i>	<i>Doug Nulf</i>	<i>Stan Blandin</i>
<i>Jim Pilkington</i>	<i>Raquel Varela</i>	<i>Nelson Acosta</i>
<i>Nancy Kirby</i>	<i>Jack Tanner</i>	<i>Gary Owen</i>
<i>Mike Billups</i>	<i>Harry Brunner</i>	<i>Lance Boyd</i>
<i>Mike Fullen</i>	<i>Rob Teel</i>	<i>Craig Bosworth</i>
	<i>Jim Payne</i>	

### *Accepting the Project Award*

**Michael K. Mackey**  
FSA Project Manager

## *Terminal High Altitude Area Defense Program First Flight*

Pratt & Whitney Rocketdyne  
Canoga Park, California

### *Team Members*

<i>Larry T. Coady</i>	<i>Stephen M. Parry</i>
<i>Kevin A. Gulbrandsen</i>	<i>Donald S. Stevenson</i>
<i>Gabriel R. Katell</i>	<i>Jody A. Wali</i>
<i>Jose E. Montes-Jr</i>	<i>David F. Woolery</i>

*Accepting the Project Award*  
**Donald S. Stevenson**  
Chief Project Engineer



## *F-35 Strength Summary and Operating Restrictions*

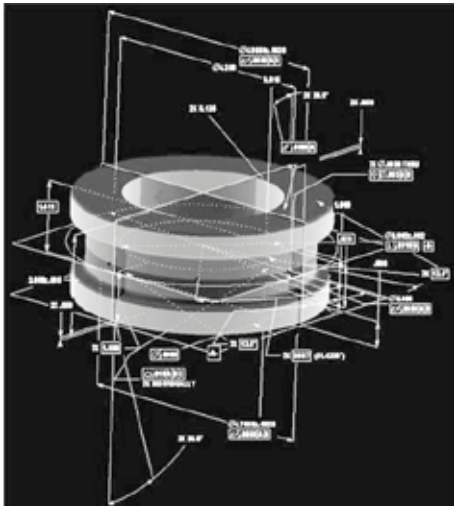
Northrop Grumman Corporation  
El Segundo, California

### *Team Members*

<i>Keith Myer</i>	<i>Justin Corff</i>	<i>Karsten Browning</i>
<i>Emily Fung</i>	<i>Bijan Rashidian</i>	<i>Tim Brooks</i>
	<i>Addison Pan</i>	

*Accepting the Project Award*  
**Keith E. Myer**  
Engineer 5

# DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS 2006



## *Model Based Product Acceptance*

Pratt & Whitney Rocketdyne  
Canoga Park, California

### *Team Members*

Larry L. Rochester  
David L. Kittinger  
Thomas A. Koehnlein

### *Accepting the Project Award*

**Larry L. Rochester**  
Quality Systems Specialist

## *B-2 Processor Modernization Team*

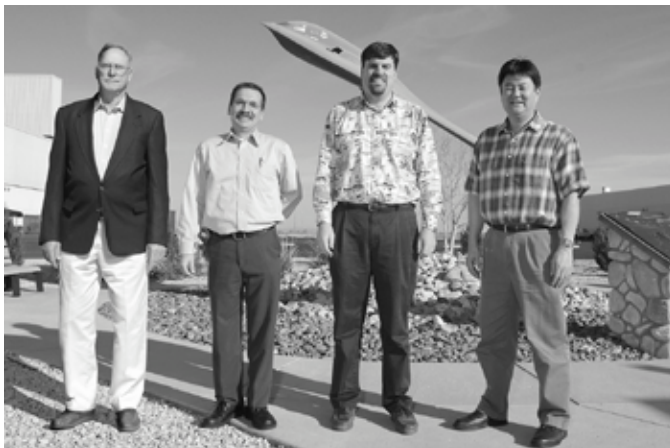
Northrop Grumman Corporation  
Palmdale, California

### *Team Members*

Charles Rogers	James Ellis	Steve Adams
Brian McEvoy	Mike Nichols	Jennie Mast
Gregory Davis	Jerry Womack	Ronald Carroll
Ted Karcher		Jerry Ritenour

### *Accepting the Project Award*

**Charlie Rogers**  
SW Engineer 5



## *B2 Windshield Design Improvement*

Northrop Grumman Corporation  
Palmdale, California

### *Team Members*

Gary Kunitake	Perry Tanouye	Matthew Hooper
Alvaro Bermudez		Fred Williams

### *Accepting the Project Award*

**Gary M. Kunitake**  
Manager





# Laser & Electro Optical Systems



**Proudly Congratulates the  
2006 National Engineers Week  
Award Winners!**

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## 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 E.R.
- 2003 "Ed" Glasgow, Technical V.P. for ADF, Lockheed Martin Aeronautics Co., Palmdale, CA
- 2004 Norman S. Sakamoto, Vice President, Northrop Grumman Corporation, San Diego, California
- 2005 Thomas R. Gavin, Associate Director, Jet Propulsion Laboratory, Pasadena, California

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**ENGINEER OF THE YEAR AWARD 2006**  
**and**  
**PETER RECCHIA OMNI MEMORIAL AWARD 2006**

Presented by

**Thomas R. Gavin**

**Associate Director**

Flight Projects & Mission Success  
Jet Propulsion Laboratory  
Pasadena, California

to

**John B. Plowden**

**General Manager**

Pratt & Whitney Rocketdyne  
Customer Site Operations



John B. Plowden

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**PETER RECCHIA OMNI MEMORIAL AWARD**  
**Permanent Replacement Trophy**

Presented by

**E.R. "Ed" Glasgow**

**Technical Vice President for ADP**

Lockheed Martin Aeronautics Company  
Palmdale, California

to

**Thomas R. Gavin**

**Associate Director**

Flight Projects & Mission Success  
Jet Propulsion Laboratory  
Pasadena, California



Thomas R. Gavin

**The Recchia Omni Memorial Award**

The movies have their Oscars, the television industry has its Emmy, and the Engineers' Council presents, for the thirtieth 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, AIEE. 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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**LLOYD & MARY HIGGINBOTHAM  
SCHOLARSHIP  
ENDOWMENT FUND**

CSUN Foundation

*Special Thanks to Ernest Schaeffer and the Engineers' Council for their initial contributions to establish the Lloyd and Mary 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 \$30,000 to ensure it's perpetuity.*

*This year, the fund will generate its first scholar to assist an engineering student at California State University Northridge.*



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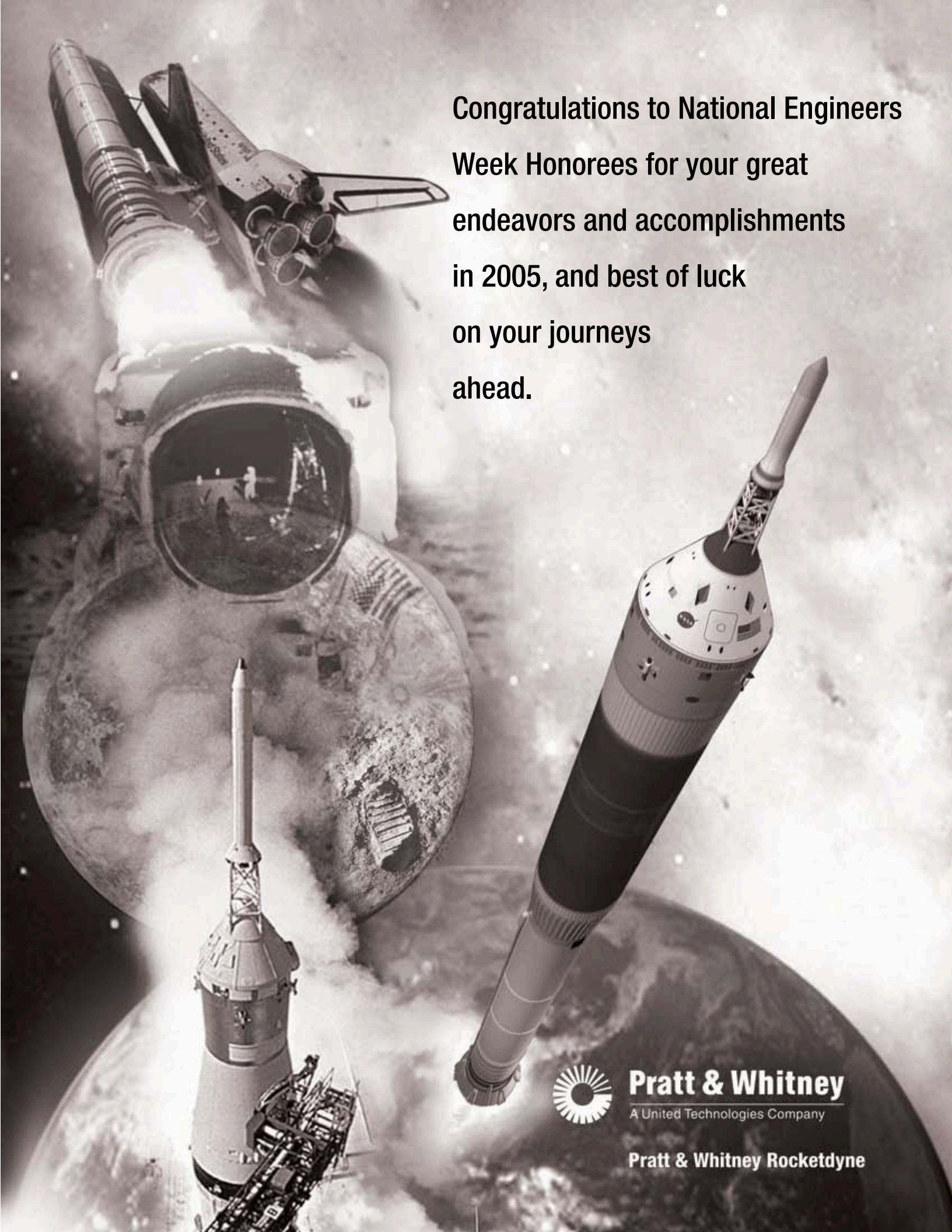
**MATHCOUNTS 2006**

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 2006 COMPETITION.**

A composite image featuring several space launch vehicles and spacecraft. In the upper left, a large rocket is shown in the process of launching, with a bright plume of fire and smoke. Below it, a smaller rocket is also shown launching. To the right, a large, dark-colored rocket with a white nose cone is shown in flight. In the lower left, a smaller rocket is shown in flight. The background consists of a view of Earth from space, with the Moon visible in the upper right. The overall scene is set against a dark, starry sky.

**Congratulations to National Engineers  
Week Honorees for your great  
endeavors and accomplishments  
in 2005, and best of luck  
on your journeys  
ahead.**



**Pratt & Whitney**

A United Technologies Company

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*Graphic Design and Printing Courtesy of  
Pratt & Whitney Rocketdyne*