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2005 Boeing National Engineers Week Activities

St. Louis Celebrates National Engineers Week

Boeing St. Louis celebrated National Engineers Week, February 20 - 26, with various events held throughout the week. Over 900 people walked through the Phantom Works Technology Display Center (TDC) open house to kick off the week. The displays highlighted achievements and advancements in Engineering currently being worked here at Boeing St. Louis.

To celebrate the engineering profession, the site hosted a Speaker Series, featuring Peter Wittenberg, Technical Fellow and member of the Red Team with Sandstorm in the DARPA Grand Challenge; Nelda Lee, TacAir Test and Evaluation manager and inductee in the Women in Aviation, International Pioneer Hall of Fame; and Gregg Maryniak, executive director of the Ansari X-Prize Foundation.

National Engineers Week also featured a new addition this year: tours of the JDAM (Joint Direct Attack Munitions) production line in St. Charles. Employees were invited to see first-hand the different elements that work together to



form a successful weapons division. As in previous years, National Engineers sponsored division skills contests. With the addition of Product Support, six contests tailored to each division to test engineering ingenuity and problem solving saw lots of employee participation. Ranging from a speed-team relay race through aviation history, to maneuvering a “flying saucer” through an obstacle course,

these contests demonstrated engineering principles in a fun, competitive atmosphere. During Friday’s closing ceremony, winners from various contests were announced and recognized with awards. Art Contest winners were invited to participate in the Paper Airplane Contest, where teams attempted to land their airplanes on a scaled-down aircraft carrier. The Trivia Contest winner received

her prize, and 10 winners were selected from the scavenger hunt drawing. Concluding the ceremony was the announcement of the “ENGY” Awards, with the first place trophy going to the Flight Lab Operations (FLO) Division.

To find out more about the “ENGY” Award and other E-Week results, visit <http://engmil.stl.mo.boeing.com/engmil/eweek> and check things out.



Huntington Beach Engineers Honored by Orange County Engineering Council

The Orange County Engineering Council (OCEC) presented nine Boeing Huntington Beach engineering employees and the Delta IV Program awards at their Annual National Engineers Week Awards Banquet held on February 26 at the Disneyland Hotel in Anaheim, CA. Russ Taub, Chief Engineer, Delta IV Program at Boeing Huntington Beach, was the Keynote Speaker.

The OCEC Recognition Program is designed to honor engineers and their projects for their engineering excellence. Major selection criteria include: engineering and technical expertise, innovative design ability, generous support of engineering education, and outstanding professional service to the Orange County community.

The following engineers are the recipients of these prestigious awards for their outstanding contributions:

Delta IV Inaugural Launch

Wayne Brown - Delta Program

- Mission Assurance Engineering Project of the Year

Kevin G. Bowcutt

- Senior Technical Fellow - Hypersonics
- The James E. Ballinger Engineer of the Year Award

David E. Blanding

- Technical Fellow - Advanced Vehicle Systems
- Prestigious Engineering Achievement Award

Daniel P. Dennies

Associate Technical Fellow - Material Science and Engineering
Prestigious Engineering Achievement Award

Glenn J. Desargant

Technical Fellow - Electrical Engineering
Outstanding Engineering Merit Award

Tiffany Berry

Systems Engineer - Future Combat Systems
Young Engineer Award

Bala Chidambaram

Mechanical Engineer - Systems/Subsystems Technology
Young Engineer Award

Jon Courter

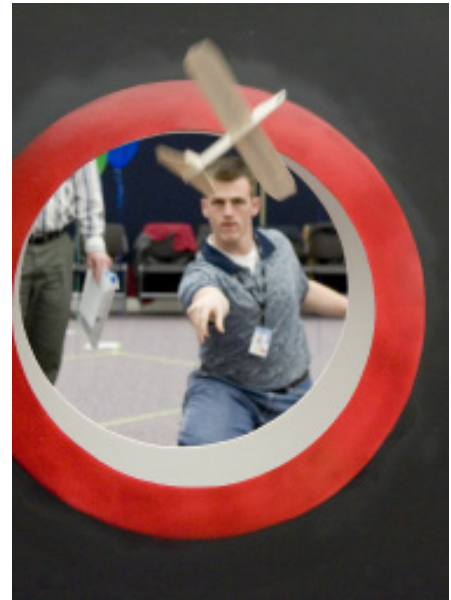
Thermal Protection Engineer - Materials & Processes
Young Engineer Award

Alejandro R. Diaz

Systems Engineering/Human Systems Integration Engineer - International Space Station Program
Young Engineer Award

Tracey M. Thomas

Systems Engineer - GPS IIF Program
Young Engineer Award



Boeing St. Louis Engineers Compete Using Teamwork

David Carlisle, a software engineer for Boeing Integrated Defense Systems Joint Unmanned Combat Air Systems, participates in the "Precision Strike" leg of the Systems and Flight Engineering Division's National Engineers Week competition in St. Louis (Picture shown above). The competition incorporated the St. Louis National Engineers Week theme of "Great Engineering Achievements in Aviation History" and challenged engineers to complete a four-leg course, using teamwork and engineering ingenuity.

Houston BBEA Engineer for a Day, Feb. 25

The Houston chapter of the Boeing Black Employees Association is sponsoring an Engineer for a Day event Friday. Activities will take place at Space Park in the morning and at Space Center Houston in the afternoon. The event will include sympo-

sia and special guest speakers. The 2005 theme is "Reach for the Stars."

Guest speakers will include Steve Oswald, Boeing vice president and Space Shuttle program manager; Joy Bryant, NASA Systems chief engineer; Robert Howard, NASA engineer and National

Society of Black Engineers—Houston Space Center president; Denise Kelley, Boeing International Space Station Hardware/Software Integration manager; and keynote speaker David Garrison, University of Houston Clear Lake professor of physics.

Engineers Week to be Observed Enterprisewide

Boeing plans a variety of activities to celebrate National Engineers Week, which runs Feb. 20 through Feb. 26. Some of the planned activities include:

Anaheim, CA

- Engineer of the Year presentation
- Bring Your Child to Work Day
- Rocket launch contest
- Discover “E” participation and demonstration in local schools

Canoga Park, CA

- Science Expo Week
- Engineer of the Year rally
- Engineer of the Year luncheon and presentation

El Segundo, CA

- Technical Fellow presentations
- Children’s art exhibit
- Satellite 101 class for non-engineers

Houston, TX

- Engineer for a Day event, sponsored by BBEA

Huntington Beach, CA

- School visits and demonstrations
- Boeing Engineering Challenge
- An egg-drop contest
- Engineering expo

Huntsville, AL

- IEEE National Engineers Week
- Award Banquet
- Job-shadowing of engineers by high school students

Kennedy Space Center, FL

- Florida Operations Engineering
- Showcase
- Engineers of the Year luncheon

Long Beach, CA

- Wooden-airplane contest
- Student plant tours
- Amphibian-machine contest
- Lunch speakers
- Helicopter demo

Mesa, AZ

- Tours and briefings for local college students
- Professional societies onsite for the college student events (Feb. 25)
- Apache assembly-line tour
- Static displays of the Canard Rotor/Wing X-50A Dragonfly, the A160 Hummingbird, and the advanced technology composite rotor blade and face gear transmission

Puget Sound, WA

- Pinewood Derby (Feb. 22 and 24) at Kent and Seattle sites
- Opportunity Fair - HIPO
- Various speakers (Feb. 10 through 24)

St. Louis, MO

- Phantom Works Technical Display
- Center open house
- Children’s “Future of Flight” art contest
- School visits
- Paper-airplane contest
- Speaker series

Seal Beach, CA

- Volunteer participation/demonstration in local schools

Wichita, KA

- Engineer for the Day with 30 high school students
- Wichita Council of Engineering Societies Service Award and Banquet

Huntington Beach Celebrates Engineers Week 2005

During the week of Feb. 21, HB/SB Site Host Engineering hosted three days of activities in celebration of Engineers Week 2005. In addition, 10 engineers visited over 500 local school children to educate and encourage them to consider the benefits of a career as a future engineer.

The site celebrated with events that focused on Engineering's influences and achievements in both the aerospace industry as well as the international community.

On Feb. 22, HB employees partici-

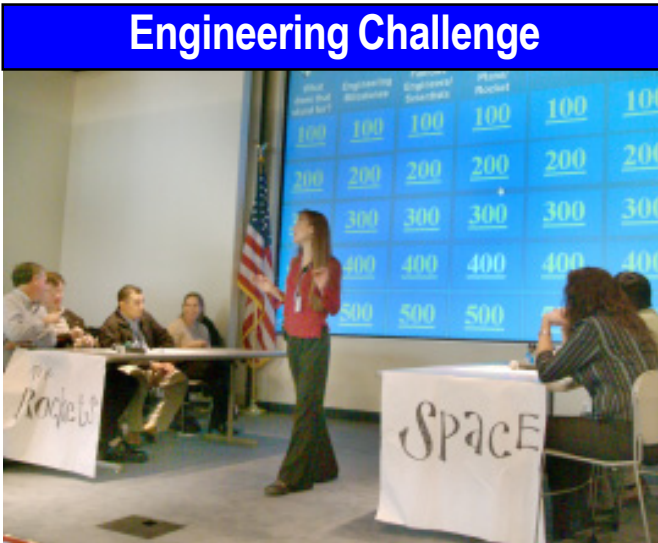
pated in the Engineering Challenge which was formatted like Jeopardy. This battle-of-the-minds challenge had two teams testing their knowledge in such areas as Boeing history, engineering milestones and famous engineers.

At the Engineering Expo later in the week, employees had a chance to learn more about Boeing Integrated Defense Systems programs such as Delta, GPS, Tactical Systems and the UCAV X45-A. Program representatives were on hand to discuss their programs and respond to

employee questions. In addition, ten inventors displayed abstracts and some hardware related to their recently issued patents.

The week of activities drew to a close with 36 employees competing in the annual Egg Drop Contest. Fourteen packages were dropped 40 feet, with the winning package having 32 out of 32 eggs survive the fall.

The following names are those employees who participated in this year's Engineers Week Activities:



Host Jenny Bursch explains the rules of the Engineering Challenge game to the Rockets Team and the Space Team. The following names are those employees who participated in this year's Engineering Challenge



Employees learn more about the technology displayed at the Tactical Systems exhibit. The following names are those employees who participated in this year's Engineering Expo

Engineering Challenge		
The Rockets (Winners)	Hugo Carbajal Darryl Satten	Carly Schlottman Daniel Schwabe
Space	Vicotor Obi Thach Nguyen	JJ Wang Nicolette Yovanof
Host	Jenny Bursch	
Judges	Earl Beeman	Pat Goggin
Scorekeepers	Richard Bradford Nathan Chan	Diana de la Teja Torres Kathy Mo
Game Facilitators	Christine Lopez Sarem Yan	Karen Reinsvold

Engineering Expo		
Program Support	Dave Crosse Carlos Paez Ted Ramsdell John Shea	Alison Schneider Scott Ward Bob Young
Patent Inventors	Roger Clark Bryan Brewer Glen Desargant Robert Dichiarra Michael Hand	AJ Mims Branko Sarh Kenneth Telford William Zanteson Yoram Yadlin
Intellectual Property	Izzy Leybovich Steve Perkins Jim Poole	Baldwin Quan Eli Velasquez
Engineers Week 2005 Proclamation	Alvin Mundo	

Boeing Wichita Hosts Student Engineers Engineer for a Day Event Gives Students Insight

BYRONALD G. BLISS

About 20 junior and senior high school students from across the state took a closer look at careers in engineering at Boeing Wichita recently.

The event was coordinated with the Wichita Society of Professional Engineers, which worked with math and science teachers to identify students who have expressed an interest in engineering as a profession.

Students spent part of the day recently one-on-one with a Boeing engineering mentor to learn about what goes on in a typical day for an engineer.

The Women in Engineering and Science Program at Kansas State University also helped in the event. Students from Manhattan, Junction City and



Boeing Wichita engineers Dwight Spaulding, left, Larry Hole and Kevin Loss discuss the use of composites during a factory tour with a Kansas State University engineering student during Engineering Week

Salina schools were brought to the Boeing Wichita site to learn about engineering careers.

Marsha Meili, co-coordinator for the event and a structural design engineer, said students got a close hand look at the skills that engineers provide to the company.

“We have students mentor with engineers in MR&D (Manufacturing Research and Development), military programs, the 787, the 747 and other areas so the visit gave students a chance to see the different jobs that engineers can do here at Boeing. That is helpful for them in making career decisions,” she said.

Larry Hole, co-coordinator for the event and International Head of State program systems engineer, said this year’s program was the 30th anniversary for him.

“I participated in an Engineer for a Day program while in high school. Today, I still talk with the engineer that mentored me that day. His name is Wilmer Freund, a civil engineer. We are good friends and I learned about engineering that day.”

The annual Engineer for a Day event hosts students visiting Boeing Commercial Airplanes Group Wichita Division; Boeing Airplane Services; and Wichita Maintenance & Modification Center.

Students who participated were from Augusta, Arkansas City, Wichita North-east Magnet, Herrington, Rose Hill, Circle, Wichita Southeast, Wichita Heights, Campus, Haysville, Nickerson Trinity Catholic, Wichita Bishop Carroll, Derby, Maize and Home School.

Huntington Beach Celebrates Engineers Week



Egg Drop 2005 Contestants

Egg Drop Contest			
Winner Overall	Humpty's Heroes Ed Ito – designer Jill Katayama – foam carver Lily Lim – designer Candy Linn – designer Karen Mak – designer/dropper		
	Troy Nimmer – designer Janell Schulenberg – designer Thomas Skelley – foam carver Jay Yoshinaga – sponsor		
Most Unique Exterior	Elizabeth Schulte – designer Terry Wilhite – assembler/dropper		
Most Unique Interior	Cindy Tran – designer/dropper Susan Ying – co-designer		
Egg Drop Contestants	Reta Anderson Cecilila Andre John Brown Russ Brown Eva Gutierrez Natalie Hiser Sewon Hong Kevin Hsu	Imelda Hunkin David Hwang John Iguar Kimberly Ip Dan Kaz Albert Koivu, Jr. Janice Loreto Alan Nakamura	Nicholas Ngo Brian Norris Sandy Rivera Kara Schones William Selfridge Judy Tejwani De Monti Michael Jensen
Judges	Pat Goggin Carolyn Lowe	Ravi Kahandal	

Boeing Engineers Participate in Engineers Week at Northwest Vista College

Engineers from BASC-SA paid a visit to Northwest Vista College to talk to students interested in the engineering field.

On Monday, February 23, Senior Liaison Engineering Manager Tony Gonzalez, Jr., Analysis and Integration Manager John Choi, and Liaison Engineer Jason Garza, joined representatives from other local businesses to help Northwest Vista College make their 1st Annual Engineers Week Celebration a success.

Jason Garza spoke to the students about some of the challenges and rewards he experienced while pursuing a BA, applying for internships and finally realizing his dream of a career in engineering with The Boeing Company. After his presentation, Tony Gonzalez, Jr., and John Choi shared some of their personal and professional knowledge with the students.

When the floor opened for questions, students were eager to know how and when they should apply for internships and, more specifically...will they actually use any of the engineering courses in their

everyday professional careers.

Gonzalez, Choi, and Garza stayed after the event to talk more with the students one-on-one.



(l-r) Boeing engineers Tony Gonzalez, JR. and John Choi visit with a student during Northwest Vista College's 1st Annual Engineers Week celebration

Boeing IDS Puget Sound Hosts Events During National Engineers Week

To celebrate National Engineers Week, the Boeing IDS Puget Sound HIPO Program will be hosting several events on February 22 and 24, 2005. Among the events will be a Pinewood Derby competition at the Kent and DC sites. All Boeing employees (Program Teams and Individuals) are eligible to enter a car in the competition. Boeing IDS is providing the car kits and the kits will be available for pickup starting January 12th. The deadline for registration and obtaining a car kit is February 10th. To register for the derby and pick up a car kit, contact Vicki L. Smith (Kent site) at 253-773-1405 or Debbie Jackson (DC site) at (206)655-5729. The car kits will be provided on a first come basis but every effort will be made to accommodate interested competitors. The competition is open to individuals and teams from a program or organiza-

tion. However, it is recommended that teams limit their members to four employees so that everyone on the team will receive an award should they place or win one of the competitions. The competition will be held at two locations. The competition in Kent will be held in the 18-06 cafeteria on February 22nd. The DC competition will be held in the 9-94 cafeteria on February 24th. The rules of the race have been changed a little from the classic Boy Scout rules to encourage ingenuity and creativity. In addition to the racing competition, judges will evaluate the entries for ingenuity, creativity, workmanship, and program theme. Medals will be awarded to individuals and team members. There are two perpetual trophies to be awarded to the programs with the winning teams of both the racing competition and the artistic/thematic competi-

tion. These trophies will be displayed prominently for the next year. Next year, the trophies will be awarded to next year's winning teams. The National Engineers Week program is sponsored by the National Society of Professional Engineers and is dedicated to raising public awareness of engineers' positive contributions to quality of life around the world through educational events to schools and communities.



Pinewood Derby Trophies

Boeing IDS Puget Sound Hosts Events During National Engineers Week

Pinewood Derby Rules		
Car Specifications	Car Rules	Disclaimer
<ul style="list-style-type: none"> • Width – 2 3/4" • Length – 7" • Weight – 5 ounces • Width between wheels – 1 3/4" • Bottom clearance between car and track – 3/8" min 	<p>The car must be freewheeling, with no starting devices. Additional features are permissible as long as these details do not exceed the maximum length, width, and weight specifications. Each car must pass inspection by the official inspection committee before it may compete.</p>	<p>These rules will supersede all official rules found in the Grand Prix Derby Kits. Point of Contact: Richard Basham at richard.r.basham@boeing.com</p>
National Engineers Week – Entry Judging Criteria		
<p>Engineering Ingenuity (1 = low ingenuity, 5 = high ingenuity) (rate each 1 through 5, sum = final score)</p>	<p>_____ Mechanical design</p> <ul style="list-style-type: none"> • Ingenuity in the design of moving components <p>_____ Aerodynamic design</p> <ul style="list-style-type: none"> • Ingenuity in the shape of the car <p>_____ Structural design</p> <ul style="list-style-type: none"> • Ingenuity in how the body of the car is designed <p>_____ Use of materials</p> <ul style="list-style-type: none"> • Ingenuity in the use of unique materials to achieve a design goal <p>_____ Performance of design</p> <ul style="list-style-type: none"> • Relative racing results, 5 ranking groups (5 = top 20% to 1 = bottom 20%) <p>_____ Form and function as a race car</p> <ul style="list-style-type: none"> • How well does it resemble the appearance of a race car <p>Total Sum of the above six scores</p>	
<p>Workmanship (1 = low quality, 5 = high quality) (rate each 1 through 5, sum = final score)</p>	<p>_____ Surface finish</p> <ul style="list-style-type: none"> • Smoothness, clarity of paint job, straight pin stripes & decals etc. <p>_____ Joint transitions</p> <ul style="list-style-type: none"> • How well the joints transition from one part of the car to the next <p>_____ Bond lines</p> <ul style="list-style-type: none"> • How clean, smooth, and straight any glue or fasteners were installed <p>_____ Materials</p> <ul style="list-style-type: none"> • Quality use of materials used for a given task/feature <p>_____ Form and Function of moving parts</p> <ul style="list-style-type: none"> • How well the moving parts were prepped and assembled <p>Total Sum of the above five scores</p>	
<p>Program Theme (1 = low, 5 = high) (rate each 1 through 5, sum = final score)</p>	<p>_____ Structural configuration</p> <ul style="list-style-type: none"> • Closely reflects program design <p>_____ Color scheme and markings</p> <ul style="list-style-type: none"> • Identifiable to program markings and color <p>_____ Branding / Logo</p> <ul style="list-style-type: none"> • Easily identifiable as a Boeing product <p>_____ Use of materials</p> <ul style="list-style-type: none"> • Ingenuity in the use of unique materials to achieve a design reflective of program theme <p>Total Sum of the above four scores</p>	
<p>Creativity (1 = low quality, 5 = high quality) (rate each 1 through 5, sum = final score)</p>	<p>_____ Innovative design</p> <ul style="list-style-type: none"> • Reflects out of the box thinking. <p>_____ Inventive design</p> <ul style="list-style-type: none"> • Allowing the concept to enhance performance <p>_____ Use of Color in Design</p> <ul style="list-style-type: none"> • Colors enhance the concept of the car <p>Total Sum of the above three scores</p>	
Grand Total of all four judging categories		
Point of Contact – Richard Basham – richard.r.basham@boeing.com		

Engineering People Recognize San Fernando Valley Engineers' Council 2005 National Engineers Week Banquet February 26, 2005

The 50th Annual Honors & Awards Banquet celebrating National Engineers Week was held on February 26, 2005, at the Sportsmen's Lodge in Studio City. As nearly 700 attendees looked on, the Engineers' Council conferred special recognition awards. Sean O'Keefe, making his first public appearance since completing his tenure as the 10th NASA Administrator and taking his new job as the 7th Chancellor of Louisiana State University, was on hand to give the keynote address to the attendees representing The Boeing Company, Northrop Grumman, Lockheed Martin Aeronautics, JPL, Edwards Air Force Base, Moog Chatsworth Operations, Moore Industries, Shell Solar, Capstone Turbine, California State University Northridge, the Institute of Electrical and Electronic Engineers, the American Institute of Aeronautics and Astronautics, the Society of Manufacturing Engineers, and others. Byron Wood, Boeing Vice-President and General Manager of Rocketdyne Propulsion & Power, presented the Engineer of the Year Award to Tom Gavin, Associate Director of JPL for Flight Projects and Mission Success. Jeff Kincaid, Boeing Canoga Park Chief Engineer, presented the William B. Johnson Founders Memorial Award to Capt. George T. Mellen, EAFB F/A-22 Flight Commander. Fifteen individual awards were presented to Rocketdyne engineers, and 87 Rocketdyne people on 7 teams were recognized by the Engineers' Council. Distinguished Engineering Achievement Awards were presented to Barbra Schackel and John Vilja (Lynne Haas was on hand to receive for John who was on business travel), and Outstanding Engineering Achievement Merit Awards were presented to Steve Barson (CFD Leadership), Gerry Brennan (CFD PC Cluster), Alexander Cruz (BSS Computer Aided Design Support), Gyan Hajela (ISS PV Thermal Control System), Steve Inclendon (Shuttle Power Transfer Unit Converters for ISS), David McConnell (SSC Test

Stand Upgrades), Chris Meister (ABL Sunnyvale Engineering Support), Don O'onnor (Structures Technology Leadership), Cuyler Richards (SSME GSE for Return to Flight), Bob Stec (Variable Capacitance Accelerometer Application), Jeff Stout (Combustion Chamber & Nozzle Technology Improvements), Jim Wolff (System Safety, Reliability, Maintainability & Testability), and Christina Zeringue (SSME Electronic Planning System). Rocketdyne projects recognized by the council with Distinguished Engineering Project Achievement Awards were the ACS Propulsion Programs Test & Delivery (received by Patrick Buckley), Channell Wall Nozzle (received by Jeffry

Fint), SEI CMMI Level 5 Achievement (received by Alan Podmore), HIP Braze Thermal Modeling (received by Youping Gao), IPD MCC (received by Lynne Haas), ISS Electrical Power System (received by Ed Gholdston), and Shuttle Return to Flight (received by Dan Adamski). The San Fernando Valley Engineers' Council was founded in 1955, through the joint efforts of the California Society of Professional Engineers, the Institute of Electrical and Electronic Engineers and other technical professional societies. Proceeds from the Honors & Awards Banquet fund the Council's scholarship, mentoring, and educational outreach programs.



Council President Bob Tarn gives welcoming address



Honorable Sean O'Keefe delivering Keynote Address



Sean O'Keefe receives the Honorary Engineer of the Year 2005 Award



Byron Wood presents Peter Recchia Omni Memorial Award to Engineer of the Year 2005 Tom Gavin



Scott Halloran receives AIAA Region VI Engineer of the Year Award



Byron Wood, Tom Gavin, Bob Tarn, and Sean O'Keefe