

BRIEFINGS



DECEMBER 2010



Hiller Aviation Museum WHERE INSPIRATION TAKES FLIGHT

DC-3: THE TOOL THAT FORGED AN INDUSTRY THE 75TH ANNIVERSARY OF THE DOUGLAS DC-3

by Jon Welte



On December 17th, 1935—thirty-two years to the day after the Wrights' triumphant foray into the air—an airplane's promise of shrinking the world's distances made its first flight in the skies over Santa Monica, California. That airplane was the third civil transport designed by the Douglas Aircraft Company, one of many new aircraft manufacturing ventures begun in the 1920s beneath the sunny skies of Southern California.

Donald Douglas' company had long since developed a name for itself building airplanes for military use, including the Douglas World Cruiser seaplanes that completed the first circumnavigation of the world by air in 1924. By the early 1930s, it had built its first airplanes for the airline market, the prototype DC-1 and subsequent DC-2. The DC-2 proved to be a moderately successful design. Its sleek, all-metal wings mounted two powerful Wright Cyclone engines, and its sturdy



Wilbur and Orville Wright took aloft the world's first successful airplane on a cold December morning at the dawn of the 20th century. Their achievement was remarkable, yet in the decades immediately afterwards the airplane struggled to find its place in the peaceful commerce of the world. Mechanical reliability concerns, performance limitations and safety worries ensured that trains and ships continued their role as the prime means of long distance human transport, much as they had in the years leading up to that first flight at Kitty Hawk.

BayAreaParent presents

CELEBRATE NOON YEAR'S EVE @ Hiller Aviation Museum

Friday, December 31 10AM - 1PM

Bring in the New Year with your family and enjoy games, entertainment and activities for all ages.

And don't forget, Santa Arrives by helicopter on Saturday, December 4th at 10am

For More Details: www.Hiller.org

1935 2010

75 DC-3 75TH ANNIVERSARY CELEBRATION

DEC 17TH/18TH MORE ON PAGE 4

100TH ANNIVERSARY OF NAVAL AVIATION

JANUARY 15
MORE ON
PAGE 5



Smithsonian Institution
Affiliations Program

metal fuselage could comfortably carry 14 passengers. Over 150 DC-2s were built and put into service across Europe, Asia and the Americas.

Although successful, the DC-2 suffered from mild stability issues and its passenger capacity made it difficult to operate profitably. In response to a request from American Airlines, Douglas' team, led by Arthur Raymond, redesigned the plane with a wider fuselage to permit installation of overnight sleeping bunks. The new fuselage design also allowed seating in the daytime configuration to jump to 24 passengers, and at a stroke the new DC-3 was able to pay its way on fare-paying passengers alone.



Following a fast-paced flight test program, the DC-3 entered revenue service in 1936. Its speed and range allowed it to complete transcontinental trips in under 18 hours, a shorter journey than any comparable trip by train. The DC-3's performance as a passenger-carrying airliner was far superior to any of its contemporaries, so much so that in 1939 90% of all world airline traffic was carried by this remarkable aircraft.

During World War II the DC-3 was produced around the world as the C-47. It was pressed into service ferrying troops and supplies through every theater of the war. Its utility was such that Dwight Eisenhower, commander of Allied forces in Europe, later listed it as one of the four technological

inventions most essential to victory.

Nearly 11,000 DC-3 and C-47 aircraft were built by Douglas at its plants in Santa Monica, Long Beach and Oklahoma City. Thousands more were built overseas under license, both as part of the war effort and afterwards as repurposed C-47s fueled a boom in postwar airline service around the world. Hundreds remain in service today, hauling passengers and cargo around the world—from the wilderness of Africa and Alaska to busy commercial airports worldwide. No other aircraft has yet to approach the DC-3's longevity in service, or match its role in making air travel practicable around the world.

Join the Hiller Aviation Museum as we celebrate the 75th anniversary of this world-changing aircraft. Weather permitting, up to four flying DC-3s and C-47s will arrive at San Carlos on Friday, December 17th. Tour these airplanes and try your hand flying one in the Museum's Flight Sim Zone. Bid farewell to these proud birds when they depart on Saturday, December 18th. Don't miss this rare opportunity to experience the Douglas DC-3.



Resources

<http://www.centennialofflight.gov/essay/Aerospace/DC-3/Aero29.htm>, downloaded 26 October 2010

<http://www.douglasdc3.com/>, downloaded 25 October 2010

<http://www.pbs.org/kcet/chasingthesun/planes/dc3.html>, downloaded 26 October 2010

President's Perspective



We've recently acquired new aircraft for display in our gallery, including an intriguing GyroPlane built by expert Martin Hollman and a rare Bell 47D helicopter, donated by the Keith

Harvey Family. Both of these aircraft are examples of pioneering efforts to push the envelope of vertical flight. The Bell 47 type is an aviation icon used most famously as a medical evacuation helicopter during the Korean War along with the Hiller H23. You can explore both of these helicopters, side by side, and we hope you enjoy seeing them in our gallery.

Those who attended our recent Fundraising event in October, Wings, Wheels and Whirlybirds, were treated to an amazing evening featuring walk-through tours of a huge and stately Grumman Albatross amphibious airplane, courtesy of Reid Dennis, along with a beautiful display of vintage cars from the collection of Richard DeLuna. Topping off the evening was an appearance by Erik Lindbergh, the grandson of famous "Lucky Lindy". The event was a great success and raised crucial funds to support the museum's many education programs. Thanks to everyone who attended and for providing such generous support.

There are some exciting programs coming up in the next few months that you will want to put on your calendar including events celebrating the 75th anniversary of the Douglas DC-3 aircraft and the 100th anniversary of Naval aviation. You'll find interesting details of these upcoming events in this issue of Briefings.

A heartfelt "thank you" goes to all of the many contributors and museum Members for supporting us and making the museum part of your lives and a shining jewel of the San Francisco Peninsula. There are great things coming and we look forward to seeing you this winter at the Hiller Aviation Museum.

—Jeffery Bass, President & CEO

SUPPORT THE MUSEUM!

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1-800-677-1744

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WINGS AT SEA

EUGENE ELY AND THE CENTENNIAL OF NAVAL AVIATION

by Jon Welte

Today the United States depends on the ability to safely operate airplanes from the deck of a ship to maintain the national defense and respond to humanitarian emergencies around the world. A century ago, the very idea of a frail contraption of wood and fabric flying from one of the Navy's ships seemed absurd. Yet one of the first steps towards the acceptance of airplanes at sea occurred in San Francisco Bay on January 18th, 1911.

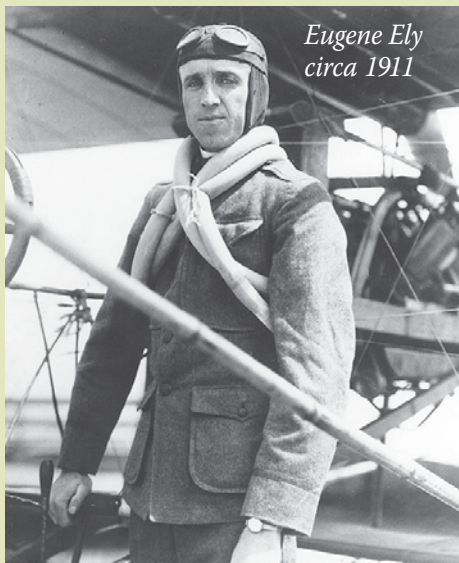
In the fall of 1910 the United States Navy appointed Captain Washington Chambers as the first head of Naval Aviation. Chambers perceived the possibilities offered by aviation and sought to demonstrate them. He developed a relationship with aircraft designer Glenn Curtiss and one of Curtiss' contract pilots, young Eugene Ely.

Within weeks of Chambers meeting Ely, the Navy authorized a demonstration in Hampton Roads near Norfolk, Virginia. A short wooden deck was built over the bow of the cruiser *Birmingham*, and on November 14th, 1910, Ely flew a Curtiss Model D pusher off the deck and into the air. The 57-foot takeoff run was inadequate and Ely's departure included a disconcerting dive to the wave-tops—the landing gear and propeller struck the water. Ely made an immediate emergency landing at the closest beach, but the launch had been a success.

Buoyed by this outcome, Captain Chambers secured permission for a more challenging demonstration: landing aboard the cruiser *Pennsylvania* in San Francisco Bay. Construction of a landing platform began at Mare Island Shipyard in the North Bay, and the Curtiss Model D was brought to California.

The flight deck installed aboard the *Pennsylvania* was just 120' long, a fraction of the distance normally needed to stop. Ely's airplane was given extended wings to reduce landing speed, but landing remained problematic. Ultimately, large hooks were installed on the undercarriage of the Model D, and ropes weighted with sandbags at each end were stretched across the flight deck. The hooks would catch on the ropes upon landing, and the weight of the sandbags would provide a swift and certain stop.

Ely practiced this landing method repeatedly at the Tanforan flying field, near modern-day



SFO. Soon he was able to regularly hook a practice rope placed in a rectangle the size of *Pennsylvania's* flight deck. Wearing a leather football helmet and bicycle inner tubes for safety, Ely launched from Tanforan on the morning of January 18th, 1911, bound for the *Pennsylvania*.

Conditions aboard the cruiser were poor. Her captain insisted on remaining at anchor in the narrow confines of San Francisco Bay, and tides swung her until the wind blew onto the landing deck. The tailwind increased landing speed, but Ely persisted. A single flyby of the *Pennsylvania* showed that the landing deck was in readiness. Ely turned his plane onto final approach.

Almost immediately Ely noticed a crosswind. Crosswind landings were unheard of in 1911—in a world without runways, pilots simply landed straight into the wind upon reaching a large, open field. Ely adjusted his flight to adjust for the wind and pulled off all engine power 50 feet from the deck, as the looming superstructure of

the cruiser dead ahead made a go-around impossible. Committed to the landing and quietly drifting aboard, Ely clearly heard commands shouted by officers to the assembled sailors. Upon reaching *Pennsylvania's* fantail, turbulent airflow bucked the Model D upwards. Ely forced the pusher onto the deck, engaging the arresting lines and bringing the plane to a halt with 50' to spare. Naval aviation was born at 10:59 AM Pacific Time.

After a moment of silent disbelief, the crew of the *Pennsylvania* broke into cheers, accompanied by sirens and horns from surrounding vessels. Ely's wife was aboard the ship and greeted him warmly, along with the ship's commander. Within an hour, The Model D was turned around and Ely was bound once more for Tanforan and another hero's welcome.

Eugene Ely's demonstrations opened the way for the development of true aircraft carriers during the first half of the 20th century. Modern carrier aircraft weigh up to 60 times as much as Ely's Model D and operate at speeds unimaginable in 1911. Yet even the highest performance naval aircraft in use today use the same tailhook arresting technology first used by Ely aboard the *Pennsylvania*.

On Saturday, January 15th, 2011, the Hiller Aviation Museum joins the naval aviation community in commemorating the 100th anniversary of Eugene Ely's landing in San Francisco Bay. Join us as the Museum highlights its full-scale replica of Ely's airplane with a panel of distinguished speakers, a fly-in of vintage naval aircraft, special flight simulations and (weather permitting) a dramatic flyby by a modern US Navy fighter—a fitting tribute to a milestone aviation achievement attained on the waters of San Francisco Bay.

Resources

Johnson, Brian. *Fly Navy—The History of Naval Aviation* (New York, 1981).

http://www.glenncurtissmuseum.org/educational/articles/albany_flyer.html, downloaded 29 October 2010.

<http://www.boeing.com/defense-space/military/fa18ef/>, downloaded 29 October 2010.

SANTA CLAUS ARRIVES BY HELICOPTER

SATURDAY DECEMBER 4
SANTA ARRIVES AT 10 AM
RAIN OR SHINE.

Join the West Bay Community Band and sing Christmas Carols while the kids line up to tell Santa their Christmas gift list. At 12:00 noon Santa will then drive to downtown San Carlos on a fire truck for more holiday cheer.

Sponsored by the San Carlos Chamber of Commerce



75TH ANNIVERSARY OF THE DOUGLAS DC-3

DECEMBER 17TH/18TH

Friday Dec 17

- 12pm Aircraft Arrivals
- 1pm-4pm Display

Saturday Dec 18 10am-3pm

- Aircraft & Antique Cars
- Presentations
- Entertainment
- Aircraft Departures



**Aircraft display subject to weather conditions*

"NOON" YEARS EVE PARTY

DECEMBER 31
10AM - 1PM

Presented by Bay Area Parent Magazine & The Hiller Aviation Museum

Your invited to attend the "Noon" Years Eve Party on Friday, December 31st at the Hiller Aviation Museum. This annual event is designed especially for kids. Join us for these exciting activities:

- Jumpers and a Rock Climbing Wall
- Face Painting, Games and Fun
- Count Down to 12:00 Noon ("Noon" Years) Balloon Drop and Sparkling Cider Toast
- Happy Birds Live Bird Show, RJ & Lori, Dance Shows and More!

Event runs 10am-1pm Friday December 31 at the Hiller Aviation Museum. Event included with museum admission.



CALENDAR

DECEMBER 2010

DECEMBER 4 • 10AM-12PM

Santa arrives by helicopter

DECEMBER 10

Museum closed for private event

DECEMBER 11 • 9:30 AM-4:30PM

Boy Scout Aviation Badge Program

DECEMBER 17 & 18

DC-3 75th Anniversary Celebration

DECEMBER 18 • 9:30 AM-4:30PM

Boy Scout Weather Badge Program

DECEMBER 24

Museum Closes at 3pm

DECEMBER 25

Closed for Christmas Holiday

DECEMBER 27-30 • 9AM-4PM

Aviation Camp Holiday Session

DECEMBER 29 • 9:30, 10:30, 2, 3

Starlab Sky Show

DECEMBER 31 • 10AM-1PM

Bay Area Parent's Noon Years Eve Party

DECEMBER 31

Museum Closes at 3pm

JANUARY 2011

JANUARY 8 • 11AM-3PM

Open Cockpit Day

JANUARY 8 • 9:30AM-4:30PM

Boy Scout Aviation Badge Program

JANUARY 11 • 3:30PM-4:50PM

After School Aviators

JANUARY 13 • 3:30PM-4:50PM

After School Aviators

JANUARY 15 • 10AM-2PM

Naval Aviation Centennial Celebration

OF EVENTS

JANUARY 15 • 12:30PM-5PM

Girl Scout Aviation Patch Program

JANUARY 17 • 1:30PM-4:30PM

Take Flight! for Kids

JANUARY 22 • 9:30AM-4:30PM

Boy Scout Weather Badge Program

FEBRUARY 2011

FEBRUARY 5 • 10:30, 11:30, 2, 3

Starlab Sky Show

FEBRUARY 12 • 9:30AM-4:30PM

Boy Scout Aviation Badge Program

FEBRUARY 12 • 11AM

Saturn V - The First 700 seconds presentation

FEBRUARY 15 • 3:30PM-4:50PM

After School Aviators

FEBRUARY 17 • 3:30PM-4:50PM

After School Aviators

FEBRUARY 19 • 12:30PM-5PM

Girl Scout Aviation Patch Program

FEBRUARY 21 • 1:30PM-4:30PM

Take Flight! for Kids

FEBRUARY 26 • 9:30AM-4:30PM

Boy Scout Weather Badge Program

MARCH 2011

MARCH 12 • 9:30AM-4:30PM

Boy Scout Aviation Badge Program

MARCH 26 • 9:30AM-4:30PM

Boy Scout Weather Badge Program

APRIL 2011

APRIL 9 • 9:30AM-4:30PM

Boy Scout Aviation Badge Program

APRIL 16 • 12:30PM-5PM

Girl Scout Aviation Patch Program

APRIL 18-22 • 9AM-4PM

Aviation Camp Holiday Session

OPEN COCKPIT DAY

JANUARY 8, 11 AM – 3 PM

Who isn't fascinated with sitting in the cockpit of a modern airliner or a jet? The Hiller Aviation Museum is unique in regularly providing access for visitors to real aircraft cockpits like an A-4 jet trainer, a Hiller H-12 helicopter and our Boeing 747 airliner. On this special day, January 8, we swing open additional cockpits including the Boeing 737 airliner, the Boeing SST and the Cessna 177 Cardinal. From general aviation piston aircraft to commercial airliners, you will get a real "hands-on" experience and unique perspective on flying from real pilots and airline captains.



CELEBRATE THE 100TH ANNIVERSARY NAVAL AVIATION

JANUARY 15 10AM-2PM

On January 18, 1911, Civilian pilot Eugene Ely became the first person to ever land an aircraft on board a ship, flying a Curtiss pusher onto a makeshift wooden platform constructed on the armored cruiser Pennsylvania in San Francisco Bay



On January 15, 2011 the Hiller Aviation Museum honors the birth of Naval Aviation with a special exhibition of our replica of Eugene Ely's Curtiss Pusher, presentations, fly-ins of vintage naval aircraft and an exciting fly-over of a modern F/A-18 Hornet jet fighter*.

**Aircraft subject to weather and military approval*

SATURN V – THE FIRST 700 SECONDS

BY FARIDE KHALAF

SATURDAY FEBRUARY 12 • 11AM

As we witnessed each launch of the Apollo program, we would forever remember the countdown, ignition sequence, images of the Saturn V rocket engines billowing out vast, fast and furious hot gas, and then lift off. We'll never forget those sheets of ice breaking off the exterior and raining down on the launch pad as the rocket cleared the tower. What we saw, what we remember, and the extent of what was broadcast on the daily news is a very small fraction of all that lead to NASA's greatest achievements. Highlighting some of the interesting and little known technical aspects of the various missions, Faride Khalaf will take you down memory lane and visit the Apollo program in a unique way. We will focus on some of the details starting from launch preparation to the last rocket blast that sent the gallant crew and their spacecraft to the moon. In this presentation, you'll find answers to questions that Walter Cronkite never thought to ask!



Come join us and relive the oldest of human dreams, a dream worth revisiting.

GIVE A GIFT THAT LASTS ALL YEAR!

Give a Hiller Aviation Museum membership to someone special. The membership will allow that person or family free admission to lectures, various events, the Vertical Challenge Helicopter Air Show and a discount in the museum store.

Now that is a gift that keeps giving!

MEMBERSHIP APPLICATION

Becoming a member of the Hiller Aviation Museum means you are participating in the growth of museum exhibits and have a role in the museum's goal to advance education.

\$35 Senior (age 65+)

Includes admission for you plus two guest passes and all membership benefits.

\$50 Individual

Includes admission for you plus two guest passes and all membership benefits.

\$75 Family

Includes admission for two adults and up to four children, (age 17 and under) plus discounted registration for Aviation Summer Camp and Programs, plus all membership benefits.

\$100 Pioneer • \$250 Pilot

Includes Family membership benefits plus two guest passes, recognition in Briefings and recognition on the museum Membership Wall for the current year.

\$500 Barnstormer • \$1,000 Adventurer

Includes Pilot membership benefits plus recognition on the museum Donor Wall, four guest passes and a 10% discount on museum rental and birthday parties (based on availability).

\$2,500 Explorer • \$5,000 Navigator

Includes Barnstormer membership benefits, eight guest passes plus 15% discount on museum rental and birthday parties. (based on availability).

\$10,000 Aviator

Includes Explorer membership benefits, twelve guest passes, 25% discount on museum rental and birthday parties (based on availability) and a Hiller Aviation Museum jacket.

I want to be a member of the Hiller Aviation Museum in the following category:

- | | |
|--|---|
| <input type="checkbox"/> \$35 Senior (65+) | <input type="checkbox"/> \$500 Barnstormer |
| <input type="checkbox"/> \$50 Individual | <input type="checkbox"/> \$1,000 Adventurer |
| <input type="checkbox"/> \$75 Family | <input type="checkbox"/> \$2,500 Explorer |
| <input type="checkbox"/> \$100 Pioneer | <input type="checkbox"/> \$5,000 Navigator |
| <input type="checkbox"/> \$250 Pilot | <input type="checkbox"/> \$10,000 Aviator |
| <input type="checkbox"/> New Member | <input type="checkbox"/> Annual Renewal |

PRIMARY ADULT MEMBER NAME: _____
(FOR FAMILY MEMBERSHIPS)

SECOND ADULT MEMBER NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

DAYTIME PHONE: _____ EMAIL: _____

THIS IS A GIFT MEMBERSHIP FROM: _____

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CARD # _____ : EXP. DATE: _____

SIGNATURE: _____

All memberships are annual. Thank you for your support!

Please make checks payable to: Hiller Aviation Museum, 601 Skyway Road, San Carlos, CA 94070
Tel: 650-654-0200, Fax: 650-654-0220
Donations are tax deductible to the extent allowed by law.

WELCOME MEMBERS!

We would like to welcome the following new and returning members August through October:

Gail and Alex Abbas, AeroCentury Corporation, Rachna Ahuja, Sam and Carrie Allen, Wayne D. Allen, Judith Amsbaugh, Marilyn Anderson, Ilya and Nadya Anisimova, Vidhya Babu and Jitinder Sethi, Jordan and Janis Bajor, Alex and Natalia Ballart, Michael Barnes and Jessica Staddon, Bakir Begovic and Gretchen Schroeder, Doug and Susan Bell, Jan and Sharon Bento, James and Nancy Biggers, Louise Bizzell, John A. Bottini, Craig Bowman and Susan Schoenung, Sabrina Braham and Irene Kivitz, James Bridges and Kristi Jentoft-Nilsen, Bruce and Agapi Burkard, Lawrence F. and Judith Byers, Roger Cain, Tom and Niki Calastas, John and Michelle Camp, Jerry Carroll and Kate Fickle, Ed Cartagena, Margaret Caulkins, John F. and Ann M. Cazahous, Wen Ming Chang, Calvin and Liza Chin, James Chou and Rozanda Lee, Ken and Tina Church, Charles and Juliette Cody, Greg and Maia Coladonato, Thomas and Donna Cole, Ron and Gayle Collins, Kathy Colman, Kent and Linda Conrad, Philip Cossuto, Cara Dakin, Lena Datwani and Jaideep Singh, Sevda Daudert and Herb Wong, Thad and Ingrid Davis, Richard and Matilde DeLuna, Gary and Joyce Diamond, Julie and Rick DiMaio, Mario Dlima, Chunyan Du and Wenhao Qiao, James T. Elliot, Richard Engstrand, Mike Etheridge and Stacie Goeddell, Arthur and Pam Evans, Manuel Ezquerro, Didier Fernandes and Chithkala Harinarayan, Gary and Noah Fiedel, Enrique and Amy Figueroa, John and Phyllis Fisher, Karl and Challeen Flick, Fox Family, Janis E. Frakes, James Freitag, Carey Gamble and Keith Stater, Michael and Judith Garb, Demece and Sally Garepis Holland, Richard A. George, Eugene and Isabella Gershtein, Thomas and Dawn Giannini, Molly Gilbert, Donald and Lori Giles, Dorene and Roger Goad, Carlos A. and Griselda Gonzalez, Mary Goodman, Debbie and David Goren, Keely and Joe Grand, Karen Grant, Marc and Kelly Greenfield, Lise Grondahl and Carolina Navarro, Bill and Sarah Grosso, Esperanza and Reuben Halili, Harry and Jean Hastie, Jeff and Heather Haworth, Robert Heffley, Gregory and Erica Heibel, Bonnie Heinsen-Kinney, David Hengehold and Cathy Post, Michael Henshaw and Jennifer Jorgl, Elenia Hoffer and Thomas Pindelski, Jane and T.J. Holden, Alyson Huey-Weaver, Todd and Monique Imbernon, Anthony Intintoli and Rita Aquino, Ken and Charlene Ip, Mark Jaremko and Joanne Quan, Paul Jemelian, Craig and Pamela Jeung, JinJin Jiang and Li Yu, Vanja and Milli Josifovski, Kamath Family, Sunir and Padma Kapoor, Marc and Jean Katz, Nolan Katz, Hope Kavooosi and Tanuj Chatterjee, Carter Keller, Adam and Micheline Kemist, Harry Kenney, Joanne V. Kezer, Milton Klein, Denise and Jack Kouzoujian, Alex and Oxana Kozlov, Roger Krakow, Bernhard Krevet and Claudia Beisiegel, Marko Krivokapic and Milena Jovovic, Michael and Stephanie Levitt, Brandon and Karen Lee, Quynh Legos, Peng and Maggie Leong, Bob Leuten, Anna Levin-Shohat and Ari Shohat, Katie and Barney Lim, Alan Littleford and Lang Anh Pham, Joseph and Sandra Locasto, David and

Heidi Lucey, Rudolph and Carmen Lukas, Paul and Karen Lynch, Amber Macmillan and Erwan Rivet, John C. Mallinson, Rich Marsili, Larry Matter, W.J. McCroskey, Dean McCully and Lisa Bickford, Keith and Laura McDaniels, Walter McElroy and Theresa Fairley, Fred McKenna, Steven B. and Heather McLaughlin, Zeke and Terri Mead, Benjamin Miller and Charmaine Bevan, Dennis Millward and Margie Pollock, Jami Milton and Yee Lee, Sheila Mooney, Alison Morantz and Daniel Wohl, Morse Family, Darius Moshteghi and Holly L. Pederson, Peter and Anna Moskovits, Beth Mulcahy and Thomas Martin, Tina Mulford and Jean Miller, June L. Munro, Adrienne and David Murphy, Peter Murray and Jacqui Bellini-Murray, Frank Newman and Jennifer Ow, Andrew Ng and Jenny Cheng, Elaine Noe Linski, Tom O'Gorman and Jane Madden, Thomas E. O'Neill, Chuck Ott, Alex and Cindy Panchula, John and Katie Pandes, Leslie and Andrew Parker, Jacqueline Parr, Dan Passanisi and Danielle Barros, Leslie and Johnnie Perkins, Christine Perris and Joe Merlino, William and Carol Pollak, Doy Prater, Lelani and Hugues Prevost, Ray Prouty, Hans Purkey and Vickie Tsui, Gene Putney, Jamshaid Rai and Laura Schooley, Troy and Claudia Rask, Raymond and Sue Rawcliffe, Dave and Lisa Renner, Anthony J. and Mary Jo Ricci, Greg and Connor Richey, David R. Roberts, Diane M. Robey, Mario Rosales and Desiree Arretz, John Ross, Alberto Rossi and Carol Gesell, Erik and Gloria Rothbaum, Al Ruffinelli, Daniel Ruiz and Ana Uribe Ruiz, Alexander and Isabella Rybkin, Praveen Sadhu, Hideko Sakamoto and Vijay Tella, Amartya and Nandita Sarkar, George Sarkisov and Natalya Komissarova, Cristina Schmedes, Ralph A. Schoenfeld, Grace and Drew Schulz, Joe and Julie Seroogy, Gregory and Janet Shaw, Ignat and Liliya Shilov, Jaesoon Shin, Allen Sikes, Ryan and Steven Silvers, Abby Smerklo and Katy Blondynka, Brendon and Deborah Smith, Dave Smith, Cliff and Maddi Sojourner, Lance and Jeannie Solomon, Sprowls Family, Srijayanthi Srinivasan and Ramesh Narayanaswamy, James Stavosky and Andrea Polites, Katherine and Andrew Stephens, Joan and Ron Stingley, Warren and Maralyn Struven, Walter and Ulrike Sujansky, Rachele Sullivan, Kenneth Sumrall, Zsolt Szabo, Joseph Szep, Olga Tereshenko, Alex and Denise Terry, Katherine and Navid Tofigh, Marland Townsend, Stefanie and Bill Trenchard, Katie C. Treu, Agnes and Rene Triana, Adriana Trofimoff Perez and Francisco Perez-Gonzalez, Patricia Tsai, Alberto Vargas and Arely Oliden, Barbara Varseveld and James Farnworth, Vaidy Venkatesan and Poornima Meenaksimisundaram, Etienne G. Vick and Michael G. Hernandez, Gary and Sarah Vostry, Janet and Julien Wade, Robert S. and Liz Walker, Andy Wang and Judy Sing, Weicheng Wang and Li Zheng, Curt Weil, Chris and Susie Whipps, Harvey and Erin Whitney, David and Tracy Williams, Peter Williams and Rene Meisner-Williams, Joseph and Sheila Winslow, Sarah and John Wolking, Marian G. Wong and Michael J. Fitzgerald, Rich Woodward, Ian and Anne Wright, Paul Ziemba and Yvonne Leyba



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4-DAY HOLIDAY CAMP • DECEMBER 27 – DECEMBER 30

Launch a special camp adventure through the skies and into the solar system for cadets in Grades 1 through 5. Spaceflight Academy is an intensive, hands-on experience in air and space. Camp meets 9 AM — 4 PM daily. Each day, campers build and fly a working model aircraft, investigate destinations in our solar system, explore one or more aircraft in the Museum's Gallery and complete a mission in the flight simulators. Spaceflight Academy activities include:

- Water-powered rocket launches • Constellation viewing and star charts
- Observations of the Sun • Space shuttle gliders • Model airplanes and helicopters
- Supersonic flight simulation • And much more!

Space is limited and a special program fee of \$259 per child (\$235 Members) is required. Visit www.hiller.org for more information or to download our enrollment form. Sign up today for an out-of-this-world winter experience!



WWI "KNIGHTS OF THE SKY" COMPETITION

SATURDAY FEB. 12 • 10AM – 2PM

For the last five years, teams of middle school students from schools on opposite sides of the Bay — the Bentley School of Oakland and Sunnyvale Middle School — have met in a tournament that replicates the battles in the skies over France in World War I: the Annual Cross-Bay Aerodrome® 1.1 Scholastic Tournament. On February 12 2011, the tournament will be held, for the first time, at the Hiller Aviation Museum.

Using colorful models of World War I aircraft, the young "pilots" of each school's team maneuver their aircraft over a playing area designed to resemble the trenches of the Great War, their goal is to "shoot down" the pilots of the opposing school.

The Tournament is played using Aerodrome® 1.1 — a widely popular tabletop game supplemented by a simple but effective scoring system to determine, after several hours of "battle", the winning school. The victors take home the Tournament Trophy, to be engraved with the name of their school, and retain it — until the following year's Tournament.

Aerodrome® 1.1 is a simple, easy to learn and fun to play game that allows players of all ages to recreate the essence of aerial combat between World War I's "Knights of the Sky". There will be a table set up to so you too can learn to play.



AVIATION CAMP 2010

REGISTRATION OPENS JANUARY 3TH!

Plan ahead to join us for a summer of aviation fun and adventure in 2011! The Hiller Aviation Museum's annual Aviation Camp program for kids returns on June 13th. Topic and schedule information will be available at www.hiller.org/daycamp in late December, with registration opening on Monday, January 3th. Register early for the best selection of dates and topics. We'll see your child this summer!



HILLER AVIATION MUSEUM

601 Skyway Road, San Carlos, California 94070 www.hiller.org

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Tuesday Dec 7: 5-8pm

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