



BRIEFINGS

HILLER AVIATION MUSEUM WHERE INSPIRATION TAKES FLIGHT

A CENTURY OF CIRCUMNAVIGATIONS FLYING AROUND THE WORLD SINCE 1924

by Jon Welte

Although it might have been news to some of Columbus' sailors in 1492, Earth's spherical nature was known in antiquity. Eratosthenes of Cyrene famously measured Earth's circumference by careful measurement of shadows and distances some 2,200 years ago. His calculation was nearly identical to the actual value of just under 25,000 miles—a daunting distance in a world constrained to travel at the speed of a horse or a wind-propelled ship. It would not be until some 1,700 years later that the survivors of Ferdinand Magellan's expedition became the first to circumnavigate the world by sea in 1522.

While traveling around the world gradually become more feasible and less fantastical as technology improved, it remained an arduous journey—Jules Verne's fictional characters struggled to complete the trip in 80 days in his 1872 novel. The advent of air travel at the beginning of the 20th century, however, offered the intriguing possibility of circling the world in far less than 80 days.

In 1923, the U.S. Army Air Service published a requirement for an airplane capable of completing an around-the-world flight. A 31-year-old Donald Douglas, at



*Douglas
World Cruiser*

the helm of his newly founded Douglas Aircraft Company, won a contract to modify one of his biplane torpedo bomber designs into a world-circling airplane. While the flights would feature many refueling stops, long range for flying extended legs over water and across inhospitable terrain was essential. With modifications designed by Douglas and Jack Northrop, the Douglas World Cruiser traded its forebear's armament for an extra 500 gallons of fuel. For added flexibility, the aircraft could be interchangeably equipped with either wheeled landing gear or pontoons for water landings. A total of five were built, along with an abundant supply of replacement parts. The four production aircraft, each named for an American city, departed the Douglas facility in Santa Monica, California, in March 1924, and launched the official attempt at an around-the-world flight headed westbound from Seattle the following month.

The U.S. expedition was well equipped and supported, yet nonetheless the trip was fraught with difficulties. One aircraft was lost in Alaska before the flight even left North America. Permission to fly in Soviet airspace was never officially granted, and the legs through Southeast Asia featured multiple stops at locations that had never before seen

HAUNTED HANGAR

OCT 22 – OCT 31

TURKEY TOSS

NOV 23

**CELEBRATE
NOON YEAR'S EVE**
@ Hiller Aviation Museum
**December 31
10 AM - 1 PM**
Bring in the New Year with your family and enjoy games, entertainment and activities for all ages.



Smithsonian Institution
Affiliations Program

an airplane. Breakdowns in remote areas were common, with one disabled aircraft towed for miles by paddle-powered boats after a forced water landing in French Indochina. Conditions improved as the surviving aircraft reached Europe, but a second aircraft became disabled and was lost under tow crossing the Atlantic. The original prototype was pressed into service as a replacement and the three surviving World Cruisers arrived triumphantly in Washington, D.C., in September 1924. Following a cross-country tour, the aircraft completed their mission by landing once more in Seattle on September 28, nearly six months after their departure.



Graf Zeppelin

While historic, the 1924 aerial circumnavigation was hardly a practical form of transportation. It did, however, mark the opening of all the world's skies to air travel. Only five years later, the German airship Graf Zeppelin completed an around-the-world flight in just three weeks. The first around-the-world journey by a Pan Am airliner took place by accident in 1941, when a Boeing 314 flying boat operated by Pan Am was forced to return home from New Zealand flying westbound after the Japanese attack on Pearl Harbor closed many trans-Pacific waypoints. Following the war, aerial refueling made nonstop flights around the world possible. The United States Air Force first achieved this feat with a propeller-driven Boeing B-50 in 1949, then repeated it with jet-powered B-52 aircraft in 1957. The latter mission required less than 48 hours to fly around the world—nearly a hundred times faster than the Douglas World Cruisers managed.

While the challenges faced by would-be aerial circumnavigators have lessened since 1924, the journey remains long, arduous, and seldom undertaken. Over a period of five months in 2021-2022, Belgian-British pilot Zara Rutherford made the first around-the-globe flight in an Aero Shark UL microlight aircraft—and in the process also became the youngest woman to fly solo around the world. Rutherford undertook her flight in part to boost female interest in, and engagement with, the science and engineering inherent in aviation and aerospace. Rutherford's westbound journey began and ended in Belgium and touched North and



Zara Rutherford

South America, Asia, Africa, and Europe—and included an unplanned stay in Alaska, waiting for weather and for permission to enter Russian airspace, very much like the Douglas World Cruiser expedition nearly a century earlier.

Globe-spanning flights continue to capture the world's imagination even in the 21st century. After the historic 1924 flight, the Douglas Aircraft Company's logo was altered to include a depiction of the world with the path of the World Cruisers shown circling around it. The logo, later updated to reflect the advent of the space age, remained a part of Douglas' identity through a series of mergers—including the 1997 merger with former archrival Boeing, which now includes the around-the-world "swoosh" of the Douglas World Cruisers in its own iconic logo.



On October 15 the Hiller Aviation Museum welcomes Zara Rutherford as the keynote speaker for its 18th annual Benefit Gala. Rutherford will share her experiences growing up in an aviating family, piloting a lightweight airplane around the world, and advocating for girls and women to look for their futures in the air.

Resources

https://airandspace.si.edu/collection-objects/douglas-world-cruiser-chicago/nasm_A19250008000 (downloaded 10 August 2022)

<https://www.boeing.com/history/products/douglas-world-cruiser.page> (downloaded 10 August 2022)

<https://flyzolo.com/> (downloaded 10 August 2022)

PRESIDENT'S PERSPECTIVE FALL 2022



It was an exciting summer at the museum. Aviation Camp soared with over 1,800 participants, our largest attendance ever,

with a heavy focus on aviation science that brought young people a bit closer to their dreams of flight with hands-on experiences that are unique in the Bay Area. This intense day camp is highly sought after and a family favorite thanks to the creativity and capable management of the museum's Education team led by Jon Welte and Linh Fanger.

This fall, our 18th annual Benefit Gala on October 15 promises to be a noteworthy event featuring Zara Rutherford, the new world-record holder for youngest woman to circumnavigate the globe by aircraft solo. If you join us (and tickets are available at www.hiller.org/gala), you'll have an opportunity to meet this young woman and hear about her extraordinary around-the-world journey that was completed just this past year. Well covered by international media, Zara's flight was an inspiration for the newest generation of aspiring young aviators. Her story will also soon be featured in our Women in Aviation exhibit, which chronicles the achievements of women pilots.

We are very grateful for the support we've received during the pandemic, and we greatly appreciate our family of museum visitors and Members for helping make the Hiller Aviation Museum a vibrant and exciting part of the community. We look forward to seeing you soon at the Museum!

*Jeffery Bass
President & CEO,
Hiller Aviation Museum*

This event is expected to be conducted fully or partially outdoors!



HILLER AVIATION MUSEUM PRESENTS

ADVENTURE INSPIRES

18TH BENEFIT GALA

Saturday, October 15, 2022

5pm · Cocktails 6:30pm · Dinner & Auction



Keynote by Zara Rutherford

The youngest woman to fly solo around the world

Benefiting the Museum's Aviation and STEM education programs



HILLER
AVIATION
MUSEUM

Individual Ticket
\$300

Table of 10 Sponsorships
\$15,000 · \$10,000 · \$5,000 · \$3,500

Questions?

Contact Rebecca Duran, VP of Development
650-654-0200 x203 / duran@hiller.org



Tickets, Sponsorships, Donations · www.hiller.org/gala

EDUCATION PROGRAMS FALL/WINTER 2022

AVIATION CAMP

FALL/WINTER AVIATION CAMP

HOLIDAY CAMP PROGRAMS
OCT 2022 – JAN 2023 • 9AM – 4 PM

Launch an adventure in aviation over the fall and winter holidays at Aviation Camp! Build and fly model aircraft, take on realistic flight simulations, explore museum aircraft and more, while exploring a unique subject in flight.



FLIGHT & MOTION

OCT 3 – 7
&
DEC
27 – 30

EXTREME FLIGHT

NOV 21 – 23



PILOT CADETS

DEC 19 – 22

AERO ENGINEERS

JAN 3 – 6



DRONE RANGERS

(1-DAY),
NOV 25,
DEC 23,
JAN 9

FAMILY SUNDAY PROGRAMS

FALL 2022

Join the excitement this fall for a series of special outdoor family events! Held on select Sundays, each features hands-on activities just for kids ages 5+. Visit www.hiller.org for more information in each event.

FLIGHT SIMULATOR RALLY

SEPT 18,
OCT 16,
NOV 20
2:30 – 4PM



GLIDER DISCOVERY DAY

DEC 11,
11AM



HELICOPTER ADVENTURE

SEPT 4,
NOV 6, DEC 18
11AM



KIDS' CARNIVAL

(ALL AGES)
SEPT 25,
OCT 22 – 23
NOV 27
10AM – 12PM



STRAW ROCKET WORKSHOP

OCT 2,
DEC 4,
11AM



WATER ROCKET RALLY

SEP 11,
OCT 9,
NOV 13
11AM



HOLIDAY FUN WEEK

SPECIAL EVENTS • DEC 27-31

Celebrate the holidays with a special event in flight! Daily events December 27-31 provide special experiences in aviation for kids and adults alike! Each is included with museum admission.

HAPPY BIRDS

TUES, DEC 27, 11AM



Take flight on the wild and feathered side with the Happy Birds! Back by popular demand,

this outrageous troupe of parrots, macaws, and cockatiels perform a remarkable routine of natural and trained behaviors.

OPEN COCKPIT

WED, DEC 28
10AM – 1PM

Explore the captain's seat in airliners, seaplanes, helicopters and more! The doors of many of the Hiller Aviation Museum's unique and historic aircraft swing open for visitors of all ages on Open Cockpit Day.



PERFECT PAPER PLANES

THURS, DEC 29,
11AM



Join world champion paper airplane designer John Collins for

an interactive, hands-on celebration of the art and science of paperlight flight! John shares his award-winning designs and leads everyone in the quest to build and fly the perfect paper plane.

SLED DRIVER – FLYING THE SR-71

FRI, DEC 30,
11AM

Celebrated United States Air Force pilot Major Brian



Shul returns to the Hiller Aviation Museum this December to share his experiences flying the world's fastest operational combat aircraft. Capable of exceeding three times the speed of sound, the SR-71 Blackbird was truly exceptional – as was the elite cadre of aviators who flew it.

NOON YEAR'S EVE PARTY



SAT, DEC 31, 10AM – 1PM

Join the countdown to 12 noon on the last day of the year in a kid-friendly New Year's Eve spectacular! Dance and music routines, hands-on activities, and special presentations prepare the way for the dramatic countdown and noon-time balloon drop. Advance reservations are required! Tickets go on sale on Dec. 1st. This event will sell out.

HOLIDAYS BY HELICOPTER

HOLIDAY FUN BY HELICOPTER

Helicopter Operations Donated by Bay Area Helicoptours, www.bayhelicoptours.com

HALLOWEEN PUMPKIN DROP

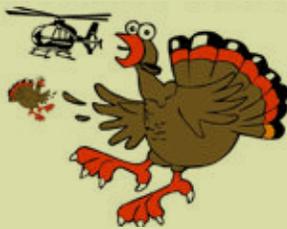


SAT & SUN, OCT 29-30, 12PM

THANKSGIVING TURKEY TOSS

FEATURING COMMEMORATIVE FOAM TURKEYS

WED, NOV 23, 11AM



SANTA CLAUS ARRIVES BY HELICOPTER



SAT, DEC 3, 10AM

All Helicopter Events are Weather Permitting

HALLOWEEN EVENTS



HALLOWEEN HAUNTED HANGAR



**OCT 22 – 31
10AM – 5PM**

**(OCT 28 – 30 ONLY)
10AM – 8PM**

Share a family-friendly fright

as the Hiller Aviation Museum transforms into the Halloween Haunted Hangar in a special annual tradition! Enjoy creepy creations, dreadful decorations, and spirited Halloween fun.

HALLOWEEN KIDS' CARNIVAL

**SAT/SUN, OCT 22/23
10AM – 12PM**

Paint the museum's Cessna Cardinal in ghastly Halloween colors, launch a Ghosticopter in a wind tunnel, assemble a Halloween craft and more at the Haunted Hangar.



HALLOWEEN FESTIVAL AND PUMPKIN DROP



**SAT/SUN, OCT 29/30
10AM – 12PM
(PUMPKIN DROP AT 12PM)**

Join the fun as our high-flying witch prepares her doomed pumpkins for their final flights! With

Halloween games, special prizes, and helicopter-borne pumpkin drops as the clock tolls 12 noon.

You can help inspiration take flight... by donating your vehicle!



No matter your reason, donating your vehicle is as easy as pie.

www.hiller.org/vehicle

1-855-550-4483

We Thank Our Top Sponsors!

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Ojangetheory Redwood City

And our thanks to San Carlos Airport!

Sunday, November 20, 10 am - 1 pm

RECYCLE YOUR E-WASTE!

Hiller Aviation Museum, 601 Skyway Rd. San Carlos



No full-size Appliances

Rotary Club of Peninsula Starlight

Golden State Hauling & Demolition

SM area Chamber of Commerce

HILLER AVIATION MUSEUM

Hiller Aviation Museum is going green with digital eMembership cards.

Members, please visit www.hiller.org/digital-membership for details and download the eMembership App on your Smartphone.

HILLER AVIATION MUSEUM



Saturday Oct 22 through Sunday Oct 30th, Daily 10am-5pm (open until 8PM 28-30th)

HAUNTED HANGAR

KIDS' CARNIVAL

SAT-SUN

OCT 22/23

10 AM-12 PM

- SPECIAL ACTIVITIES JUST FOR KIDS
- COCKPIT EXPLORATION
- GLIDER AND HELICOPTER CONSTRUCTION AND MORE
- PRINT THE MUSEUM'S PRINT-A-PLANE ORANGE AND BLACK
- FUN FOR THE WHOLE FAMILY!

HELICOPTER PUMPKIN DROP

SAT-SUN

OCT 29/30

10 AM-12 PM (DROP AT 12 PM)

- PUMPKIN DROP
- CREEPY GAMES AND PRIZES
- MEET THE WITCH AND SIGN HER SPECIAL HALLOWEEN PUMPKIN
- GREAT PUMPKIN SAFARI HUNT

GET TICKETS AT WWW.HILLER.ORG

HILLER AVIATION MUSEUM 601 SKYWAY RD SAN CARLOS, CA 94070

CALENDAR

SEPTEMBER

SUN, SEPT 4 • 11AM
Helicopter Adventure

SUN SEPT. 11 • 11AM
Water Rocket Rally

SUN, SEPT 18 • 2:30PM-4:00PM
Flight Sim Rally

SUN, SEPT 25 • 10AM – 12:00PM
Kids' Carnival

OCTOBER

SUN, OCT 2 • 11AM
Straw Rocket Workshop

SUN, OCT 9 • 11AM
Water Rocket Rally

SAT, OCT 15 • 5PM-10PM
Adventure Inspires, Museum Gala

SUN, OCT 16 • 2:30PM-4:00PM
Flight Sim Rally

OCT 22 – OCT 31 • 10AM-5PM
OCT 28-30 • 10AM-8PM
Halloween Haunted Hangar

SAT/SUN, OCT 22/23 • 10AM – 12:00PM
Kids' Halloween Carnival

SAT/SUN, OCT 29/30 • 10AM – 12:00PM
Halloween Helicopter Pumpkin Drop

NOVEMBER

SUN, NOV 6 • 11AM
Helicopter Adventure

SUN, NOV 13 • 11AM
Water Rocket Rally

SUN, NOV 20 • 2:30PM-4:00PM
Flight Sim Rally

WED, NOV 23 • 11AM
Turkey Toss

THURS, NOV 24
Closed for Thanksgiving

DECEMBER

SAT, DEC 3 • 9:30 AM – 12 PM
Santa by Helicopter

SUN, DEC 4 • 11 AM
Straw Rocket Workshop

SUN, DEC 11 • 11AM
Glider Discovery

SUN, DEC 18 • 11AM
Helicopter Adventure

WED, DEC 25
Closed for Christmas

TUESDAY, DEC 27 • 11AM
Happy Birds

WED, DEC 28 • 10AM – 1PM
Open Cockpits

THURS, DEC 29 • 11AM
Paper Airplane Guy

FRI, DEC 30 • 11AM
SR-71 Pilot Brian Shul

SAT, DEC 31 • 10AM – 1PM
Noon Years Party

FLIGHT SIM ZONE AND FMX FLIGHT SIM
WEEKENDS 11AM - 2PM

INVENTION LAB
WEEKENDS 11AM - 3PM

DRONE PLEX
WEEKENDS 11AM - 3PM

HELICOPTER TURKEY TOSS

WED NOV. 23, 2022 11 AM



Celebrate the Thanksgiving holiday with a family-friendly re-enactment of a classic television event! In 1978, WKRP in Cincinnati first aired its timeless "Turkeys Away" episode. In 2022, the Hiller Aviation Museum commemorates this fictional holiday catastrophe with a "Turkey Toss" of its own.

The museum is known for many helicopter-borne events throughout the year. Now, for the first time, the museum will drop turkeys - not the actual birds, but soft foam turkey toys! Small, squeezable take-home turkeys will rain from the sky - reminding all of the immortal words of WKRP General Manager Arthur Carlson, "As God is my witness, I thought turkeys could fly!"

SANTA CLAUS ARRIVES BY HELICOPTER

SATURDAY, DECEMBER 3,
10AM RAIN OR SHINE.
DOORS OPEN AT 9:30.

Join the West Bay Community Band and sing Christmas carols while the kids line up to tell Santa their Christmas gift list. No Museum admission fee required for this event!





HILLER AVIATION MUSEUM

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

Non - Profit
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San Carlos, CA
PERMIT No. 96

Halloween Costumes

Be an Aviator,
pioneer
airline pilot
fighter pilot
or astronaut

Suit up in
the Gift Shop!

*Special
Holiday Shopping*

NOV 25 THROUGH DEC 31

**MUSEUM MEMBERS RECEIVE A
25% DISCOUNT
IN THE GIFT SHOP**

NOVEMBER 26 - DECEMBER 31

**Become a Museum Member
and take advantage of this
great holiday offer!**

Join Now!

- Senior (age 65+) \$55**
One adult plus 2 one-time use guest passes
- Individual \$70**
One adult plus 2 one-time use guest passes
- Family \$105**
2 adults and up to 4 children (17 & under)
plus discounts on Aviation Camp
- Pioneer \$140**
Family Membership benefits plus one
additional card for an adult, ideal for
caregivers (up to 3 adults per visit),
& 2 one-time use guest passes

- Pilot \$275**
Family Membership benefits with a
total of 3 guest passes + 8 FMX Flight
Simulator passes and 50% off additional
FMX tickets.
- Barnstormer \$550 Adventurer \$1,000**
Pilot Membership benefits with a total of
4 guest passes + 10% off Museum Rental
and Birthday Parties.

- Explorer \$2,500 Navigator \$5,000**
Pilot Membership benefits with a total of
8 guest passes + 15% off Museum Rental
and Birthday Parties.
- Aviator \$10,000**
Pilot Membership benefits with a total
of 12 guest passes + 25% off Museum
Rental and Birthday Parties and a
Hiller Aviation Museum jacket.

Annual Membership Application

Or join online at www.hiller.org/member

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

- | | |
|--|---|
| <input type="checkbox"/> Senior (65+) \$55 | <input type="checkbox"/> Barnstormer \$550 |
| <input type="checkbox"/> Individual \$70 | <input type="checkbox"/> Adventurer \$1,000 |
| <input type="checkbox"/> Family \$105 | <input type="checkbox"/> Explorer \$2,500 |
| <input type="checkbox"/> Pioneer \$140 | <input type="checkbox"/> Navigator \$5,000 |
| <input type="checkbox"/> Pilot \$275 | <input type="checkbox"/> Aviator \$10,000 |

New Member Annual Renewal

Primary Adult Member: _____

Second Adult Member: _____
(Family Memberships and up)

Third Adult Member: _____
(Pioneer Memberships only)

Address: _____ City: _____

State: _____ Zip: _____ Daytime Phone: _____

Email: _____

This is a gift membership from: _____

Payment Amount: _____ VISA MC AMEX

Card #: _____ Exp. Date: _____

CSC: _____ Print Name on Card: _____

Signature _____

Thank you for your support.

Please make checks payable to
Hiller Aviation Museum
601 Skyway Rd, San Carlos, CA 94070