

BRIEFINGS



September – November
2020

HILLER AVIATION MUSEUM WHERE INSPIRATION TAKES FLIGHT

START UPS AT SEA AMPHIBIOUS PERSONAL AIRCRAFT

by Jon Welte

While most flights in modern aviation begin and end at airports, in its earliest days operations from the surface of a body of water were quite common. Over three years before the Wright Brothers' airplane flights at Kitty Hawk, Count Ferdinand von Zeppelin flew his first enormous rigid airship from a unique floating hangar moored in Lake Constance. Von Zeppelin chose a floating launch platform for his experiments in part to enhance safety during flight tests, and in part to allow the hangar – moored at only one end – to swing with the breeze, simplifying airship operations.

Airplanes likewise soon found their way to the water. Despite the obvious disadvantages of the additional weight and drag introduced by the need to operate from water, seaplanes had several advantages. First, they allowed for a long, smooth takeoff run that could usually be made straight into the wind. They could also access seaports, an important consideration in a world where dedicated airports and paved runways were rare. Seaplanes proliferated through the 1920s and 1930s, culminating in exceptional aircraft like the Supermarine S.6B racer and the Boeing 314 Clipper.

While the golden age of seaplanes ended with World War II, water operations have persisted in the world of general aviation. Small seaplanes and amphibians have remained in production through the present day. The emerging world of personal air

vehicles has likewise seen its share of water-capable vertical takeoff or landing aircraft, including the Kitty Hawk Flyer. Developed by Mountain View-based startup Kitty Hawk, the Flyer carries a single pilot in a twin-pontoon aircraft lofted by ten vertically-aligned propellers. Designed as an ultralight aircraft, the single pilot carried by the Flyer need not possess a pilot certificate.



Kitty Hawk Flyer

Flown extensively by Kitty Hawk from 2018-2020, the Flyer provided important data regarding water-based personal air transportation operations. Kitty Hawk ended the Flyer's development program and donated a flown flight test vehicle to the Hiller Aviation Museum earlier this year. As a part of the Museum's growing collection of autonomous and personal air transportation vehicles, the Kitty Hawk Flyer represents yet another innovation in the quest to make personal air travel safe, affordable and convenient to all.

Resources

<https://evtol.news/kitty-hawk-flyer/>, downloaded 9 September 2020

<https://kittyhawk.aero/>, downloaded 9 September 2020

PRESIDENT'S PERSPECTIVE FALL 2020



During the summer, we truly missed being able to see and talk directly with our many visitors and members who normally enjoy the museum. The pandemic situation has required indoor museums, as well as zoos and aquariums,

to remain closed to normal visitation. However, we were able to conduct our Aviation Summer Camp under more restrictive guidelines and were successful in providing 12 weeks of intensive STEM enrichment and immersive aviation activities for more than 700 youth.

As this is written, we don't know when the museum's general reopening will occur. The best way to see how all this is shaping up for the museum is to stay abreast of announcements on our website, www.hiller.org, including our "Hiller at Home" web page which is packed with activities and projects for download. Our new Virtual Invention Lab is a great way to connect live on the internet with museum educators in a facilitated, make-and-take activity. And, our bi-weekly series of live 30-minute "Hiller Hangar Talks" on the Zoom platform have been very successful. Here, we share presentations, exploits, research and personal stories of professional aviators and adventurers. Since beginning in March, the "Hiller Hangar Talks" have enjoyed over 1,000 audience members. Information about all of these activities is to be found on www.hiller.org

We are also pleased and humbled at the financial support we've received during the lockdown. If you're inclined to support the museum, your help is most welcome. Please join us for our live-streamed, Virtual Benefit Gala "Clear Skies Ahead" on Saturday, October 24 at 7 pm. It's our first-ever "thank you for not coming" fundraiser! And thanks to everyone who has supported the museum already this year!

We greatly appreciate our family of museum visitors 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

SPECIAL NOTE

THE HILLER AVIATION MUSEUM WILL REOPEN AND RESUME EVENTS IN ACCORDANCE WITH PUBLIC HEALTH ORDERS. EVENTS LISTED IN THIS EDITION OF BRIEFINGS MAY BE MODIFIED, RESCHEDULED OR CANCELLED IF NECESSARY TO COMPLY WITH FUTURE PUBLIC HEALTH GUIDANCE. PLEASE VISIT WWW.HILLER.ORG.



Smithsonian Institution
Affiliations Program

AVIATION CAMP



FALL/WINTER AVIATION CAMP

SPECIAL HOLIDAY PROGRAMS
OCTOBER 2020 – JANUARY 2021
9 AM – 4 PM

Take flight with fall and winter sessions at Aviation Camp! Build and fly model aircraft, take on challenging flight simulations, explore Museum aircraft and more!



FLIGHT SCIENCE LAB

OCTOBER 12 – 6

EXTREME FLIGHT

NOVEMBER 23 – 27

DRONE ZONE

DECEMBER 18 & JANUARY 4

AERO ENGINEERS FLIGHT SIMULATOR ACES

DECEMBER 21 – 23

X-PLANE PILOT ENGINEER'S WORKSHOP

DECEMBER 28 – 30

All programs are operated in compliance with state and county health orders specific to day camp operations. Visit www.hiller.org for complete program descriptions, registration forms and additional information.



HILLER HANGAR TALKS

Presentations, exploits, research and even some tall tales from aviators and flying enthusiasts. Each talk is about 20-30 minutes with time for Q&A. Presented via Zoom. Talks are free but do require pre-registration.

Visit www.hiller.org/event/hiller-at-home-2020

AIRCRAFT HOMEBUILDING WITH DR. CHINMAY PATEL



WEDNESDAY SEPT. 23. 7:00 PM

Yet another two-seat airplane taking shape in a garage. What's different?

Senior Aerospace Engineer at Wisk Aero, Dr. Chinmay will present an overview of his custom-built airplane project, where the design, build and pilot training is just as important as getting airborne. He will discuss the fundamentals of the design process, what considerations are important for each discipline involved, and how the rest of life overlaps with such a project.

CHASING A DREAM: AIR FORCE B-52 PILOT AND FLIGHT SURGEON DAVE PRAKASH, MD, MS



WEDNESDAY OCT. 7, 7:00 PM

Dave was originally a doctor. But after completing medical school and residency he applied to the US Air Force. He omitted that he was a doctor to

ensure he went to pilot training just weeks before reaching the age limit of 30. He went on to serve as a B-52 operational test pilot and eventually convinced the service to let him to work as a flight surgeon too. After 13 years on active duty as one of only nine pilot-physicians, he left for business school at Stanford in 2017. His story is a remarkable example of a person ignoring all perceived limits in following ambitious dreams.

COBRAS TO LITTLE BIRDS: ATTACK AVIATION IN THE MARINES AND SPECIAL OPERATIONS WITH MATTHEW CROCE



WEDNESDAY OCT. 21, 7:00 PM

Matt will discuss his experiences and lessons learned throughout a 26-year military career in attack aviation, from stateside training and pre-9/11 deployments, to 24 combat rotations supporting our special operations forces in Iraq and Afghanistan.



TUESDAYS AND THURSDAYS, 2 PM

Meet Hiller Aviation Museum staff and build an aviation-themed project online in a special Virtual Invention Lab session!

Each session runs 30-35 minutes and includes an introduction, hands-on activity, and exploration of an aircraft or aircraft replica in the Hiller Aviation Museum. Presented live via Zoom from the Invention Lab studio. No pre-registration required, just drop in! It's Free!

PLEASE JOIN US "IN THE CLOUD"
FOR A VIRTUAL FUNDRAISER!



Hiller Aviation Museum Presents
CLEAR SKIES AHEAD
16TH BENEFIT GALA and AUCTION

SAVE THE DATE

Saturday, October 24
7-8 pm

Benefiting the Museum's Aviation and STEM programs

SPONSORSHIPS AVAILABLE

\$15,000 · \$10,000 · \$5,000 · \$3,500 · \$2,000

Keynote by **Gary Gysin**, President & CEO of Wisk,
a joint venture between Boeing and Kitty Hawk
Urban Air Mobility: Opportunities and Challenges

QUESTIONS?

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



hiller.org/gala

Mark Your Calendar

Hiller Aviation Museum's first-ever "thank you for not coming" fundraiser!

YOU ARE INVITED TO MAKE A DIFFERENCE WHEN IT'S NEEDED MOST
BY LOGGING ON TO THIS LIVESTREAMED VIRTUAL EVENT



HILLER AVIATION MUSEUM

601 Skyway Road, San Carlos, California 94070

www.hiller.org

Non - Profit
Organization
US POSTAGE PAID
San Carlos, CA
PERMIT No. 96



Join Now!

Senior (age 65+) \$50

Unlimited admission for you + 2 guest passes.

Individual \$65

Unlimited admission for you + 2 guest passes.

Family \$90

Unlimited admission for 2 named adults and up to 4 children (17 & under) + discounts on Aviation Camp.

Pioneer \$125

Family Membership benefits + an additional card for a named member (ideal for caregivers) and 2 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+) \$50 | <input type="checkbox"/> Barnstormer \$550 |
| <input type="checkbox"/> Individual \$65 | <input type="checkbox"/> Adventurer \$1,000 |
| <input type="checkbox"/> Family \$90 | <input type="checkbox"/> Explorer \$2,500 |
| <input type="checkbox"/> Pioneer \$125 | <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 _____

SUPPORT THE MUSEUM!

DONATE YOUR CAR TRUCK, RV, OR BOAT



CALL TOLL FREE 1-888-205-3420

Or call Development Office at

650-654-0200 x203

Tax Deductible Gift

AN AVIATOR'S PARADISE! VISIT OUR GIFT SHOP

Gift Certificates available!

Thank you for your support.

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

