



# HILLER AVIATION MUSEUM

## WHERE INSPIRATION TAKES FLIGHT

### FASTER AND FARTHER

#### AERONAUTICAL ADVANCEMENTS BETWEEN THE WARS

*By Jon Welte*

A century ago this fall – November 11, 1918 – the guns fell silent on the Western Front, bringing an end to the terrors of the Great War. Today remembered as World War I, at the end of 1918 it was known instead as the War to End All Wars – a conflict so horrendous that surely another could never succeed it. The moniker and the rationale behind it proved tragically false, but the mood in 1918 was one of optimism for the future, tinged with sad remembrance of the past.

Though no other continent suffered World War I to the extent that Europe did, the change brought by the conflict spanned the world. Aviation, still in its infancy in 1913, experienced a tremendous burst of innovation and development during the war years. When battle was first joined in 1914, the airplane

was an oddity with no clear military role. By the time of the Armistice in 1918, control of the air had become an essential pre-requisite for a successful land campaign.



*Glenn Curtiss*

The frail machines flown early in the war were quite similar in performance to the 1905 Wright Flyer, the machine Wilbur and Orville considered to be their first practical flying machine. In contrast, by war's end a proliferation of advanced designs had developed, filling niches in the ecosystem of military aviation undreamed of just a few years earlier.



*Reims Air Meet Poster*

Following the war, air racing quickly took on the role of catalyzing new developments in aviation. The earliest aerial speed competition was not



**OPEN COCKPIT**  
SATURDAY  
SEPTEMBER 15  
10AM-2PM



**HALLOWEEN HAUNTED HANGAR**  
SAT. OCT 27  
6PM-11PM

**OKTOBERFEST**  
SATURDAY OCT. 13  
6 PM - 11 PM



Smithsonian Institution  
Affiliations Program

a true race, but instead an organized set of time trials similar to an Olympic alpine skiing event. Sponsored by newspaper publisher James Gordon Bennett, the Gordon Bennett Trophy was first awarded to Glenn Curtiss in 1909. Curtiss sprang to fame by besting famed French aviator Louis Bleriot by mere seconds. Racing at Reims, France, at a time when French aviation was both technically advanced and a source of intense national pride, the upset victory of the jaunty American was a jolt felt in aviation circles across the continent.

The Bennett Trophy was largely eclipsed by the Schneider Trophy after World War I. Established by Jacques Schneider, the Schneider Trophy was reserved for the world's fastest seaplanes. Today the concept of a race for seaplanes seems absurd – the floats, pontoons and ship-like fuselages required for an airplane to operate from the water add enormous amounts of drag to an airframe. Until the late 1930s, however, the drag and weight disadvantages faced by seaplanes were modest compared to the challenges faced by landplanes. Absent a global network of paved runways, landplanes usually operated from open fields. Virtually every landplane mission in the first decades of flight would be considered an STOL (short take-off and landing) flight today. Seaplanes, in contrast, had access to much longer takeoff runs in the protected waters of harbors, lakes and bays. Freed from the constraints of making short/soft field take-offs and landings, seaplanes could be optimized for high performance.

The first Schneider Trophy races preceded World War I. The 1914 race was won by one of the first aircraft designed and built by the Sopwith Aviation Company, presaging its legacy of high performance fighter aircraft. Following the war, the race series resumed in earnest in Venice, Italy, giving emergent Italian aircraft designers a chance to shine. Italians won the race in consecutive years in 1920 and 1921. The rules of the Schneider Trophy competition stipulated that a team able to win three consecutive races would keep the trophy in perpetuity, giving the Italians an opportunity for an historic win in 1922.



*Supermarine S6*

the war building components for Sopwith. After the war Supermarine found its niche building small numbers of seaplanes for the Royal Navy. A Supermarine airplane first appeared at a Schneider Trophy race in 1919, but sank ingloriously after striking debris on landing. Its 1922 entry, the Sea Lion II, remained afloat and dashed the hopes of the Italians, winning the competition and returning the trophy to the United Kingdom.

Standing in their way was a biplane flying boat constructed by a little-known aircraft manufacturer: the Supermarine Aviation Works.

Incorporated during World War I, Supermarine struggled to field an effective design and survived



*Doolittle and the Curtiss R3C-2*

water during World War I, returned to prominence with a pair of victories in the 1920s, the second flown by James "Jimmy" Doolittle. The final competition was held in 1931, as a British team won a third consecutive victory to claim the trophy for all time. Supermarine designed and built the seaplanes used to win the Schneider Trophy.

Aeronautical technology accelerated at a breakneck pace throughout the racing era. Glenn Curtiss stunned the French by winning the Gordon Bennett Trophy in Reims at the blistering speed of 47 miles per hour. The Supermarine S6 that won the final Schneider race averaged 340 miles per hour just 22 years later. While seaplanes soon faded from importance, the knowledge gained in their development did not. Supermarine adapted what it had learned to build the exceptional Supermarine Spitfire, hero of the Battle of Britain. Rolls Royce, builder of the engines that powered the S-series racers, went on to design powerplants used in many combat aircraft, including not only the Spitfire but also the later (and most effective) versions of the North American P-51 Mustang.



*Reno Air Races*

flight stem from unending efforts by airlines to seek competitive advantage. In the time between the wars, however, it was the quest for racing glory that drove teams around the world to design, build and fly ever faster airplanes, transforming the technology of flight and inspiring a tradition of performance in aviation that continues to this day.

#### **Resources**

*Aircraft of Air Racing's Golden Age*, Robert Hirsh, 2005  
*The Golden Age of Air Racing*, S. H. Schmid, 1991  
*The Quest for Speed*, Mike Roussel, 2016

Throughout the 1920s, the Schneider competition inspired pilots, aircraft designers, and entire nations with the thrill of higher and higher speeds in a technology that seemed to have no limit. The United States, consigned as an aeronautical back-

water during World War I, returned to prominence with

a pair of victories in the 1920s, the second flown by James "Jimmy" Doolittle. The final competition was held in 1931, as a British team won a third consecutive victory to claim the trophy for all time. Supermarine designed and built the seaplanes used to win the Schneider Trophy.

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Today, events such as the Reno International Air Races are largely for sport. Military aviation advances in response to perceived threats around the world, while developments in commercial

flight stem from unending efforts by airlines to seek competitive advantage. In the time between the wars, however, it was the quest for racing glory that drove teams around the world to design, build and fly ever faster airplanes, transforming the technology of flight and inspiring a tradition of performance in aviation that continues to this day.

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# BOLD DREAMS

# NEW FRONTIERS

## 20<sup>TH</sup> ANNIVERSARY BENEFIT GALA

SATURDAY, OCTOBER 20, 2018

**KEYNOTE BY IVAR SATERO**

SAN FRANCISCO INTERNATIONAL AIRPORT DIRECTOR

5:30 PM / COCKTAILS • 7:00 PM / DINNER & LIVE AUCTION

Tickets, Sponsorships, Donations: [www.hiller.org/gala](http://www.hiller.org/gala)



**BENEFITING THE MUSEUM'S AVIATION AND STEM EDUCATION PROGRAMS**

Individual Ticket  
\$300

Table Sponsorships  
\$15,000 • \$10,000 • \$5,000 • \$3,500

Questions? Contact Rebecca Duran, VP of Development – 650.654.0200 x203 / [duran@hiller.org](mailto:duran@hiller.org)

# WELCOME MEMBERS!

We would like to welcome the following new and returning members May through July:

Jeffrey Abramowitz and Patti Hershfeldt, Shari and Soam Acharya, Gary and Laura Aden, Raquel Aguilar and Jose D. Pedroza, Lydia Chrissy Alexander and Raji Kapoor, Roger and Donna Anderson, Jennifer and Josh Anderson, David and Sarah Apple, Aaron Arvey and Cate Bradford Arvey, Patrick and Angela Aurelio, Eric and Erika Bailey, Mary Anne and Kevin Ball, Kristi and Larry Barker, Robert and Ashley Bartlett, Virginia Bass and Hockkee Yeo, Kyle Belford and Veronica Salas, David Benjamin, Sarah Bercusson and Oren Goldschmidt, Amy Berkeley and Matthew Buechler, Carolyn and Peter Bierman, William Bishop, Russell and Cee Blaine, Henry and Rochelle Blanco, Paul Block, Mark Jon Bluth and Michelle Danzer, Carolyn and Dave Bolan, Jennifer and Willie Booker, David Bower and Sally Glaser, Leigh Bradbury, Leo Bridgeford and Cong Luo, James Bridges and Kristi Jentoft-Nilsen, Mark and Zaniyah Broughton, Rod Broyles, Dan Buegeleisen and Janice Bird, Nicole and Michael Buttler, Quynh Byrer and Jim Byrer, Sarah and Jorge Calderon, Nathan Carroll and Yume Phung, Natalie and Albert Cerussi, Annabel and David Chai, Alexandra and Jeremy Chalmer, Wai Chan and Chen Peng, Nivas Chandrashekar and Shwetha Nagaraju, Keri and Thomas Chapman, Jonathan and Michele Charles, Shuyi Chen and Lide Zhang, Zhezhe Chen and Lingdi Zhao, Ida Cheng and Patrick Egloff, Salena Chiang and John Chan, Wallace and Carol Chin, Waikhee Chin and Poonkeong Ang, Jae and Yoon A. Choi, Hemant Choksi and Amishi Patel, Max and Lisa Chuang, Henry Chun and Jayne Chu, Louis C. Cogliani, David Cohen and Kathleen Carlson, Doug Coke, Robert Coley and Elena Coley-Ford, Gloria and David Comfort, William Craig and Stacy Rabago, Scott Currence and Deborah Maxwell, Meghan Crowell and Jason Trimborn, Brent R. Cyca and Sunita Sastry, Melissa and Stephen Czapiga, David Dabrowski, Nidhi Daga and Sid Singh, Su T. and Stacey L. Dang, T. Roger Danielson, Ajit and Laura Dansingani, Lawrence and Kathy Davenport, Rachel and Dallas Davidson, Carol Day Paine, Jenilee Deal and Matthew Goodwin, Bodhisattva and Soumya Debnath, Madison Denny, Isaiah and Isela Dimery, Jindrich Dinga and Jitka Dingova, Minh Do and Phuong Nguyen, Christopher and Juana Dong, Mary and Gary Driedger, Max Dunn, Ted and Angela Dunning, Shalyn and Randall Eason, Attila Egyedi and Marta Orban, Ben Ehrlich and Mira Browne, Stephen and Pamela Ellingson, David and Sue Ellis, Jessica Emek, Kjell Enander, Julie and Matthew Epley, Chris Erickson and Jill Slattery, Hector A. Espinola, Ricky and Pamela Estrada, Robin Estrada and Jeronimo Soriano Estrada, Eric Evans and Arzu Ozkan, Manuel Ezquerro, Dario Fadda and Francesca Gusso, Angelin and Damien Fairbairn, Phillip and Bobby Feiner, Ryan and Jenny Fell, Patrick Fellowes and Sherrie Chow, Michael Feng and Sophia Tseng, Robert and Melissa Flemming, Mikhail Folomeev and Kseniya Mankova, Dean and Mira Foster, Chesca Y. Fox, Jae and Keith Foy, Cheryl Frank and Michael Linn, Tamir and Lisa Frankel, Robert Freedman, Claire and Tom Fry, Michelle and Alejandro Gaete, Vineeta and Raj Gajwani, John Gallagher, Amarilya and Stephen Ganner, Stacia Garr, Crystal and Divonne Garza, Jon and Ruth Gavin, Pippa and Alex Gawley, Maryna Gayevska and Yuriy Kulykev, Alyce Gershenson and Michael Lloyd, Anita Ghai and Aniruddha Jain, Andre and Christine Gharagozian, Stefanos Giampanis and Christina Wade, Jo Rawlins Gilbert, Omer Gimenez Llach and Eva Vega Diaz, Robert Ginda and Tatiana Bachniak, Lalita Godbole and Manoj Apte, Jay Goldberg and Bethanne Deuel, Christine C. Gray and James J. Trietsch, Sandra Gu and Joshua Walker, James Guddy and Matt Palczynski, Venera Gumerova and Yuriy Skylar, Soujanya Gundalpalli and Ravagendra Mallampati, Vidyaasagara Guntaka and Lino Abraham, Karan and Rashmi Gupta, Shruti Gupta and Deepam Agarwal, Sonal Gupta and Vrajesh Bhavsar, Shana and Dave Hackworth, Junsheng Han and Dan Liu, Olivia Harris and James Sonnenberg, Elizabeth Harvey-Guedes, Lutful Hasan and Taslima B. Shireen, Harry Hastie, Lura Franco and Scott Hayes, James Heeger and Daryl Messinger, Mike Henneberry, Allen Herr, Marla and Tim Hochman, Lara Hoffman and Meredith Lee, Arnold Hom and Maggie Lou, Elmar and Yvonne Horn, Joel Hornstein and Karen Arellano, Darienne Hosley Stewart and Doug Stewart, Ken and Patricia Howarth, Yihan Hu and Dehua Pan, Qian Huang and Jikai Li, Lin Huang and Xiao Liu, Joe Hwang and Sherry Hikita, Elizabeth Irons Seem and Steven Seem, Hiroki and Rika Ito, Ayush and Pallavi Jain, Eileen and Aaron Jiang, Mohammad Javanbakht and Iman Jedd, Rajeev Jayavant and Ana Mendez, Satish Jayachandran and Sumitha Alwarswamy, Yuntao Jia and Jinfeng Wang, Jamie Johnston and Paul Maa, Stanley and Yvette Jonsson, Robert and Shira Jordan, Deepak Kandepet and Madhavi Deshmukh, Padma Kaninan and Prakash Parthasarathy, Serguei and Alena Karhovich, Simona Katcher and Josh McGinn, Phillip and Kathleen Kelleher, Shawn Kirgater and Laleq Haghshenas, Jennifer Kerwin and Neal Hooper, DaYean and EunJu Kim, Don Kimber, Mikey Kindler, Jenny and Mike King, Wong Kingchen and Hongquan Su, Brian Kirks, Andrew and Jennifer Kitt, Andrew Klootwyk and Kimberly Newton-Klootwyk, Cheryl and Michael Kong, Oleksii and Elena Kononenko, Nadia and Hafidha Kortas, Daniel and Tracy Kraft, Joan E. Kral, Murray Kucherawy and Chandra Alexandre, Sean and Veronica A. Kuiper, Norm and Rosemarie Kutchuk, Bernice and Christopher Kwong, Seth LaForge and Ania Mitros, LiMin Lam and Tony Hui, Meredith Larsen, William Latтин, Alesandra and Barbara Laurell, Vivian Lee and Eric Tsai, Kristinelli and David Leggett, Raymond and Alisa Leung, Irina and Aleksey Lib, Grant and Gray Ligon, Le Lin and Xuebin Guan, Ira Lit and Jin

Choo, Yu-Yen Liu and Ho-Li Chen, Peter Liu and Patricia Zheng, Serena Loh, Tony and Tracy Lucia, Chris and Sue Lupo, Lori and Scott Lyle, Irina and Sergei Lysenko, Debbie Madden and Lana Lau, Akhil Madhani and Shannon Peavey, Arita Mak and Arkin Si, Ronalee and David Mann, Amar and Surekha Manohar, Niloo and Navid Mansourian, Fred and Debbie Martin, Christian Martine, Daniel and Diane Martinelli, Praveen Kumar and Vasudha Marupadige, Elena Matsa, Christina McCall and Catherine Liang, John McDowell, John McElroy and Sandra Tichenor, Eric and Shannon McGovern, Sergio D. and Janet Medina, John Meere and Gillian Deeniman, Sean and Jill Melvin, Roger S and Peter Mertz, Ed and Dina Miklovsky, Elena Mironova and Denis Khitrik, David G. Mitchell, Luis Montano, Ilana Morady and Matthew Stevenson, Ronald P. Mork, Jennifer and Jason Mostasis, Nazgol Mozaffarian and Amir Arabi, Karthik Nagaraj, Elaine and Mack Nagashima, Dharna Naik, Vijay Narayanan and Sharmila Vijay, Paul K.C. and Maria Antonia R Narth, Fabio Necco and Aileen Sweeney, Katie and Mike Nee, Katharine Nelson and John Beaber, Karen and Elliott Ng, Kelly Ng and Lawrence Ip, An Nguyen Ruda and Kenneth Ruda, Paul Nichols, Patrick and Bonnie O'Connor, Robert and Emily Ohgami, Philip O'Sullivan and Marir Solanes, Mark Palatucci and Katie Antypas, Pratibha Pandit and Pramodh Mallipatna, Pamela and John Park, Jacqueline Parr, Walter Parubrub and Elizabeth Thompson, William Patterson, John and Romy Pavolotsky, Nicole and David Peartree, Sarah and Stephen M. Perry, Amanda and Ran Petel, Katie and Marc Pfenninger, Claudia and Mike Pohl, Wolfgang Polak, William and Laura Porter, Geoff and Verity Powell, John Proctor and Laura Tomarcho, Suzanne and Greg Pulliam, Chi and Huiro Qi, Karen and Daniel Rabe, C.N. and Aruna Radhakrishna, Bill Reeves and Celina Mikolajczak, Michelle Reiningger and Adam Berkelhimer, Sarah and Struan Robertson, Ison and Jacqueline Rocha, Richard Rojo and Beatrice Hildreth, Nilo A. and Patzy Roman, Howard Rosen and Susan Doherty, Alberto and Carol Rossi, Jason and Jodi Rubino, Al Ruffinelli, Daniel Ruiz and Ana Uribe Ruiz, Seunghwa Ryu and Haejin Kim, Mitra Safa and Roland Mirador, Christopher Sallen and Catherine Chapman, Olivier Salles, Yura and Lusine Sargsyan, Saket Saurabh and Barkha Saxena, Brian and Anne Marie Schar, Steven and Cathy Schechter, William Schick, Christopher Schmidt, Ken Schmidt, Kim Schoknecht, Lisa and Marc Schonbrun, Christian and Louise Selchou-Hansen, Amanda and Kieran Senior, Guneet Sethi and Rupeet Malhorta, Katerina and Abraham Jose Sevilla, Chanda Seymour, Anjani and Sanjay Shah, Bhairavi Shanghavi and Navdeep Jaitly, Sherril Shapiro and Arthur Levitt, Mark Shapiro, Veronica and Christopher Sharp, Donald G. and Elta Sharp, Yabing Shen and Nan Jiang, Subha and Prashanth Shetty, Yunzhou Shi and Jinhua Li, Liliya Shilova and Ignat Shilov, Tricia and Alexander Shkapsky, Sophia and David Shoemaker, Clayton and Catherine Shum, Benny and Anthony Simi, Shelby and Tuhan Sinha, Mark and Meg Sneddon, Jack Soares, David and Mary Solis, Marina Solomatnikova and Alex Solomatnikov, Eunice and Min-Kuk Song, Leah Soper, Jonathan and Joseph Sorger, Preeba Srikannan and Srikannan Gopalsamy, Savitha and Pramod Srivatsa, Viktoriia and Oleksiy Stashok, Madeline J. and Isaac Stein, Tom and Debra Steipp, Vincent and Patricia B. Stella, Joseph and Makiko Stevens, Glen Stevens, Jason and Marci Stockwell, Bruce Storms, William and HAPPY Stuart, Yue Sun and Yiming Jing, Ritaja Sur and Supratik Datta, Ben Sutherland and Alethea Bair-Sutherland, Virginia and Derick Sutton, Edward Sweeney and Kathy Hansen Sweeney, Daniel Swinehart, Mark and Briana Tabry, Bani Tamraz and Vittoria d'Aste-Surcouf, Nick and Neha Tandon, Susan Tang and Bertrand Lui, Anna and Adam Taub, Carrie Taylor and Eric Evangelista, Natalie Telis and Benjamin V. Lehmann, Vitra Thai and Lucilla Ng, David Theis, Seshu Thulipala and Pallavi Kondapalli, Daniel and Susan Todd, Kim Touneh and Lawrence Kim, Karim Nassiri Toussi and Arshia Zameni, Luba Tovbin, Alejandra Trejo and Sanjay Shetty, Gabe and Shilo Trionfi, Matt and Nicole Trunnell, Annie Tsai and Thomas Tsih, Richard Tskushi, Elizabeth and Paul Tucker, Nicolai Utehin, Payal and Parag Vaish, Sharon Valentine and Larry Colondres, Hans and Babette Van Antwerpen, Pallavi Vanacharla and Ravikanth Vaka, Salvador Vargas and Julieta Bravo, Elena Velizhanina and Dmitry Velizhanin, Keith and Catherine Vendola, Lakshmi Venkatraman and Ashish Mahashabde, David Vespremi and Roberta Kuehne, Yury Vidineev and Kseniia Vidineeva, Angel Viloria and Narinya Kellogg, Sriramulu Vinakota and Jyothi Robertson, John R. and Marie Violet, Fred and Jacob Volinsky, Caroline Vu and Edward Cha, Sanjay and Jyoti Vyas, Randy and Catherine Waldeck, Eliska Waldova and Tomas Wald, John and Patricia Walsh, Helen and Sherman Wan, Mark A. Warren, Zhen Wei and Felix Freimann, Robert and Adrienne Werner, Catherine Whitney and Whitney Glockner Black, Rhonda and Scott Wildy, Keith Williams and Christine Denise Ching, Peter Williams and Rene Meisner-Williams, Kimberly Williams, Brian and Austin Wilt, Donley Winger, Hsiu I Wu and Chih-Wei Chang, Yizi Wu and Cuiping Pan, Shekhar Yadav and Amita Paul, Yang Yang and Wentao Wang, Joyce Yankowski and Marek Wolter, Ming-Yuan Yeh and Weng-Ling Chen, Doris and James Yoon, Natalya Yusupova and Mike Galanter, Derek and Lisa Zaba, Anna Zavarzina and William Wright, Julia Zehr and Michael Schwartz, Ian Zhao and Min Fang Yan, Chenguang Zhou and Jing Han, Ning Zhou and Jumin Lu, Jolin Zhu and Julie Thompson, Michael Zhu and Tracy Wang, Guibo Zhu and Shuai Yuan, Terry and Jennifer Zody

## President's Perspective FALL 2018



It's been an exciting summer at the Museum! Aviation Camp soared with over 1,300 participants and a heavy focus on aviation science, bringing young people

a bit closer to their dreams of flight with hands-on experiences that are unique in the Bay Area.

The Hiller Aviation Museum's new look for our 20th anniversary features a design called "dazzle." The paint scheme is not exactly camouflage but was applied to war ships so they would present a confusing silhouette to prowling submarines and surface vessels. The design was also applied to aircraft to thwart easy identification. The museum now presents a provocative and intriguing visage. We are certainly in less danger of being sunk by U-boats than at any other time in the museum's history. For creative design and final execution we thank HGA Architects, William F. Rossi Painting and The Signworks.

Behind the scenes, we are happy to welcome Christopher Lee to the museum's Board of Directors. Chris brings strong connections to the capital finance and investment banking world, along with his expertise with a BS in Mechanical Engineering and a lifelong interest in aviation. We look forward to working with Chris.

Meanwhile, activities abound in our restoration shop with the fabrication of a full-size replica of a Fokker Dr.I Triplane, the "Red Baron." You can watch the action every Tuesday and Thursday as skilled volunteers apply fabric covering to control surfaces and bring together the engine, cowling, landing gear and other elements with a goal of displaying the aircraft in its final form in early 2019.

Thank you for supporting our mission to improve understanding of science and technology using aviation as a gateway. There are great things coming, and we look forward to seeing you this fall at the Hiller Aviation Museum!

— Jeffrey Bass, President & CEO

# EDUCATION PROGRAMS FALL 2017

## AVIATION CAMP

### FALL/WINTER AVIATION CAMP SPECIAL HOLIDAY PROGRAMS

NOVEMBER 2018 – JANUARY 2019

9 AM – 4 PM (EXTENDED HOURS AVAILABLE)

Take flight this holiday season at Aviation Camp! Build and fly model aircraft, take on challenging flight simulations, explore Museum aircraft and more while exploring a unique subject in flight.



#### TEST PILOT SCHOOL

NOVEMBER 19-23\*

#### EXTREME FLIGHT

DECEMBER 19-20

AERO BOT INVENTORS (K-5)  
FIGHTER ACES (5-8)

DECEMBER 26-28

WINGS & FLYING THINGS (K-5)  
INVENTION CONVENTION (5-8)

JANUARY 2-4

#### DRONE ZONE

JANUARY 7



\*No camp November 22. Partial-day enrollment options available to match school dismissal schedules. Visit [www.hiller.org](http://www.hiller.org) for more information. We'll see you there!

## DRONE RANGERS

### ADVENTURES IN MULTIROTOR FLIGHT

Grades K-5

SATURDAYS, 10 AM – 12:30 PM

SEPTEMBER 8, OCTOBER 6, NOVEMBER 3

Join the robotic revolution at the Hiller Aviation Museum! Children Grades K-5 investigate the technology of remotely piloted vehicles, master multirotor flight in the Drone Plex's simulator lab, and earn their wings with basic flight training inside the Drone Plex cage. Each participant will take home a lightweight drone (no FAA registration required).



## AERO DESIGN CHALLENGE

Open to Grades 5-12

### SCHOOL PROGRAMS

OCTOBER 29-30, NOVEMBER 5-7 9:30 AM – 12:30 PM

### PUBLIC PROGRAM

SUNDAY, NOVEMBER 4, 1:30 PM – 4:30 PM

Launch an adventure in design and engineering at the 2018 Aero Design Challenge! Recently honored by the California Association of Museums and California Department of Education with the Superintendent's Award for Excellence in Museum Education, the Aero Design Challenge presents middle and high school students with unique design challenges intended to spur creative thinking and



problem solving. This year, students design, build and test a helicopter! There is no charge to participate, but space is limited and advanced reservations are required. Visit [www.hiller.org](http://www.hiller.org) for more information.

## FAMILY SUNDAY PROGRAMS

Fall 2018

Join the excitement select Sundays at the Hiller Aviation Museum! Each event features hands-on activities just for kids, ranging from drone flights and paper planes to design challenges and airplane painting. Visit [www.hiller.org](http://www.hiller.org) for more information on each event.

### AERO WORKSHOP

Ages 10+ • Sept. 9, Oct. 7 • 2 – 4 PM

### DRONE MEET

Ages 8+ • Sept. 16, Oct. 14, Nov. 18 • 1 – 4 PM

### FLY FOR FUN PAPER PLANES

Ages 5+ • Oct. 21, Nov. 11 • 1 – 4 PM

### KIDS' CARNIVAL

All Ages • Sept. 23, Oct. 28, Nov. 25 • 10 AM – 12 PM

### WATER ROCKET RALLY

Ages 5+ • Sept. 30 • 11 AM – 12 PM

## STARLAB SKY SHOWS

SATURDAYS, SEPTEMBER 29, OCTOBER 6,  
NOVEMBER 10, DECEMBER 1, 12:30 PM

Explore the stars, planets and constellations of autumn beneath the Starlab dome! Each 30-minute presentation highlights night sky objects visible from your own backyard.

Space is limited. Starlab ticket required in addition to Museum admission, may be purchased in the gift shop on the day of the program.



## OPEN COCKPIT

SATURDAY, SEPTEMBER 15.  
WEDNESDAY, NOVEMBER 21  
10AM-2PM

Who isn't fascinated with sitting in an aircraft cockpit?

The Hiller Aviation Museum regularly provides access to aircraft in its exhibits. On Open Cockpit Days the doors swing open on many others, including the Boeing 737, Grumman HU-16 Albatross, Aero L-39 and more to provide a pilot's eye view of these iconic aircraft.



## SMITHSONIAN MAGAZINE MUSEUM DAY

SATURDAY, SEPTEMBER 22

Free admission all day for any person (plus a guest) who presents a Museum Day Admission Card available in the September issue of Smithsonian Magazine, or visit [www.smithsonian.com/museumday](http://www.smithsonian.com/museumday) to download your Museum Day Admission Card. Each card provides museum access for two people (one Admission Card per household).



## KIDS' CARNIVAL & HELICOPTER PUMPKIN DROP

SUNDAY, OCTOBER 28, 10AM – 12PM

Visit the Hiller Aviation Museum this October for a frightful treat! Come in costume and see the Gallery decked out in its spooky Halloween decorations. Join the creepy carnival games to earn special prizes, meet our flying witch and sign her special Halloween pumpkin. Join a spooky honor guard to accompany the witch to her helicopter before she takes off and splats the great orange gourd across the landscape below in a festive salute to the Halloween spirit! Event included with Museum admission.



## HAUNTED HANGAR PARTY

SATURDAY, OCTOBER 27  
6PM-11PM

Who says Halloween is just for kids? Fright takes flight in an all new event at the Hiller Aviation Museum! Join ghosts, skeletons, witches and warlocks as darkness falls on the Museum on October 27. Grab a drink or a delicious dinner from Bone Yard BBQ, dance to Q102 DJ Billy Vidal and explore a festively spooky collection of aircraft and aviation artifacts. Put on a costume and come to party the night away. Little goblins are welcome too! Event is included with regular museum admission.



## THANK YOU



To the following generous organizations who support aviation and STEM education for local students by underwriting the cost of the museum Aero Design Challenge and school field trips!



[www.hiller.org](http://www.hiller.org)

## CORRECTION:

The following **CHARTER MEMBERS** of the Museum were accidentally omitted from the last Briefings newsletter. The following people have been members uninterrupted since the museum opened June 5, 1998. We apologize for this error. With members like you we are able to bring the history of aviation to everyone.

Henry D. Miller

David G. Mitchell

June L. Munro

Michael & Hong Murphy

Einar B. Nielsen

Walt Ramseur

Robert E. Scharff

John Straubel

Richard & Joy Tabery

# CALENDAR

## SEPTEMBER

SUN, SEPT 9 • 2PM-5PM  
Aero Workshop

SAT, SEPT 15 • 10AM-2PM  
Open Cockpit

SUN, SEPT 16 • 1PM-4PM  
Drone Meet

SAT, SEPT 22 • 10AM-5PM  
Smithsonian Museum Day

SUN, SEPT 23 • 10AM-12:30PM  
Kids' Carnival

SUN, SEPT 30 • 11AM-12PM  
Water Rocket Rally

## OCTOBER

SUN, OCT 7 • 2PM-5PM  
Aero Workshop

SAT, OCT 13 • 6PM-11PM  
Peninsula Oktoberfest

SUN, OCT 14 • 1PM-4PM  
Drone Meet

SAT, OCT 20 • 5:30PM-10:30PM  
Bold Dreams, New Frontiers Gala

SUN, OCT 21 • 1PM - 4PM  
Fly For Fun – Paper Airplanes

SAT, OCT 27 • 6PM-11PM  
Haunted Hangar Party

SUN, OCT 28 • 10AM-12:30PM  
Kids' Carnival – Pumpkin Drop

## NOVEMBER

SUN, NOV 4 • 2PM-5PM  
Aero Workshop

SUN, NOV 11 • 1PM - 4PM  
Fly for Fun – Paper Airplanes

THURS, NOV 22  
Closed for Thanksgiving

SUN, NOV 25 • 10AM-12:30PM  
Kids' Carnival

Check online schedule at  
[www.hiller.org/calendar](http://www.hiller.org/calendar)  
for the most up to date schedule

## GOURMET FOOD TRUCKS

WEDNESDAYS 11AM - 2PM

## FLIGHT SIM ZONE, INVENTION LAB AND FMX FLIGHT SIM

WEEKENDS 11AM - 2PM

## DRONE PLEX WEEKENDS

10:30AM - 3PM

# Hiller Aviation Museum



German  
Food  
Brews  
Music  
and  
More!

# PENINSULA OKTOBERFEST

## SATURDAY OCT. 13

### 6:00PM - 11:00PM



Discount Tickets  
Available On-line

**Eventbrite**

Hiller Aviation Museum 601 Skyway Rd, San Carlos  
(650) 654-0200 \* [www.hiller.org](http://www.hiller.org)

## PENINSULA OKTOBERFEST!

**SATURDAY, OCTOBER 13**  
**NEW HOURS: 6PM - 11PM**



### MICROBREWS AND SEASONAL BEERS:

#### German Beers:

Hofbrau Oktoberfest, Hofbrau HEFE, Weltenburg Dunkel, Anders VolBier, Stiegle Radler, Fruh Kolsch

#### Great Microbrews and Seasonal Beers from:

Devil's Canyon, Uncommon Brewers, Seismic Brewing Co.

German food by Little Red Riding Truck will be available for separate purchase. Plenty of sausages, bratwurst and sauerkraut

Two bands, the San Mateo Elks Oktoberfest Band and the return of Bayern Maiden, The Rockin' Oktoberfest Band, playing the hits directly from the tents in Munich.

Museum admission required to enter the event. Beer glasses (required for drink purchases) \$5/each (or

you can bring your own glass, 16oz pours). Oktoberfest brews available for \$5/pour. Discount tickets available on Eventbrite [www.hiller.org](http://www.hiller.org) The museum admission fee is free for museum members to the event.

**EVENT WILL BE HELD RAIN OR SHINE**



Oktoberfest is at hand! Over two hundred years after Crown Prince Ludwig and Princess Therese of Saxony-Hildburghausen wed, the Hiller Aviation Museum joins the celebration with a special Oktoberfest beer, music and dining event on **Saturday evening, October 13.**

In honor of the great festival held in Munich each year, the Peninsula Oktoberfest will pour:



# HILLER AVIATION MUSEUM

601 Skyway Road, San Carlos, California 94070 [www.hiller.org](http://www.hiller.org)

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

**Halloween Costumes**

**Be an Aviator,**  
pioneer  
airline pilot  
fighter pilot  
or astronaut

Suit up in  
the Gift Shop!

**HALLOWEEN  
HAUNTED  
HANGAR  
SAT. OCT 27  
6PM-11PM**

## 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](http://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 \_\_\_\_\_

Thank you for your support.

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

