

BRIEFINGS



DECEMBER 2016



Hiller Aviation Museum WHERE INSPIRATION TAKES FLIGHT

FLIGHTS OF MERCY HELICOPTER MEDICAL EVACUATION

by Jon Welte

In April 1944, Japanese forces in occupied Burma shot down a Stinson liaison aircraft that had been carrying three wounded British soldiers to safety. The pilot and all three passengers survived the downing, but their location behind enemy lines in remote and rugged terrain would have permitted little opportunity for their rescue—except for the presence of a new technology at the front.



Bell UH-1 Huey in Vietnam

civilians from combat zones and accident sites to medical facilities. Rapid advances in medicine meant that casualties provided with prompt attention were far more likely to survive, but all too often help was a long and difficult journey away.

Shortly after World War II, Captain Valérie André, a doctor serving in the French Army, faced much the same situation in her efforts to treat soldiers in French Indochina (modern day Vietnam, Cambodia and Laos). An experienced airplane pilot, Capt. André realized that the helicopter provided a ready solution to the problem of medical evacuation. She returned to France to earn a helicopter rating and arrange for the purchase of two Hiller 360 helicopters, which she had shipped to the front lines. Over a period of 3 years Capt. André flew over 100 combat missions, some under enemy fire, to insert herself into areas with wounded soldiers in need of treatment and/or to evacuate casualties to proper medical facilities that might have been hours or even days away by surface transportation. André chose the Hiller 360, manufactured at the Menlo Park factory of the Hiller Aircraft Corporation, for its simplicity and reliability. The aircraft was easy to maintain in the field and, crucially, could carry stretchers mounted externally for the transport of seriously wounded patients.

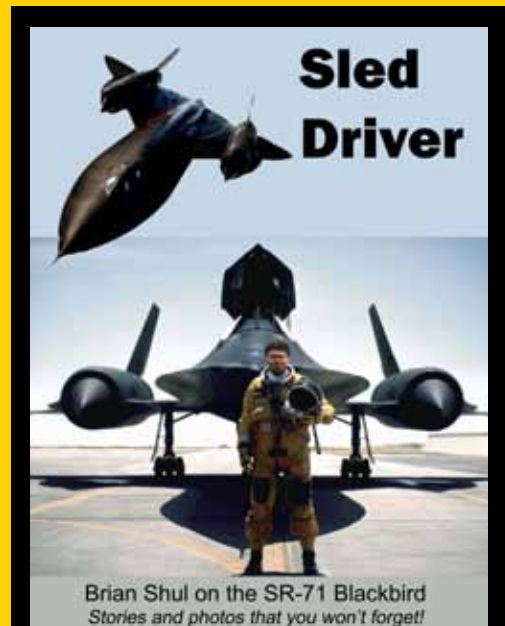
Flying an experimental Sikorsky YR-4B helicopter, pilot Carter Harmon of the US Army's First Air Commando Group flew to the crash site to rescue the downed pilot and soldiers. The early



Valérie André with a Hiller 360

helicopter's performance limitations, combined with hot-and-high conditions at the crash site, limited Harmon to carrying only a single passenger at a time. Over two days Harmon, who later received the Distinguished Flying Cross, ferried the men one by one to a nearby landing strip where a larger fixed-wing aircraft flew them out to safety.

These pioneering flights were the first use of a helicopter for medevac, or medical evacuation. Throughout the first half of the 20th century, aviation promised a solution to a vexing problem—transporting injured soldiers and



Brian Shul on the SR-71 Blackbird
Stories and photos that you won't forget!

FRIDAY, DECEMBER 30, 11AM



CELEBRATE
NOON YEAR'S EVE
@ Hiller Aviation Museum

Saturday, December 31
11AM

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

For More Details:
www.Hiller.org

And don't forget, Santa Arrives by helicopter on Saturday, November 26 at 10:30



Smithsonian Institution
Affiliations Program

Valérie André was ultimately promoted to general and received the National Order of Merit among other decorations in recognition of her service to France.

Elsewhere in Asia, the United States further developed the role of helicopters for medevac operations. During the Korean War the US Army and Marine Corps were bedeviled by rugged terrain and poor roads. Helicopters such as the Hiller UH-12 (derived from the Hiller 360) and Bell 47 were tasked with transporting wounded soldiers to medical facilities. These helicopters evacuated an estimated 20,000 wounded servicemen during the war. By the end of the Korean War the fatality rate for casualties wounded in battle



US Coast Guard Eurocopter H-65

had been cut nearly in half compared to World War II due largely to developments in medevac procedures and technology.

Helicopter technology continued to advance, and when the United States joined the Vietnam War some ten years later the mission had been largely taken over by the new Bell UH-1 Iroquois, universally known as the "Huey". Powered by turbine engines and able to carry heavier loads than earlier piston-powered Hiller, Bell and Sikorsky aircraft, the UH-1 could carry patients internally rather than strapped to the helicopter's exterior. This made it possible for medical personnel to begin basic treatment while the patient was in the air prior to reaching the medical center. Over one hundred thousand US soldiers were evacuated via medevac during the Vietnam War, and the ability to provide treatment in the air caused the fatality rate to fall in half again compared to the mid-1950s.

By 1969, soldiers wounded in action in Southeast Asia had lower mortality rates than drivers and passengers involved in serious automobile accidents on American highways, suggesting that a medevac program could provide lifesaving support to civilians in peacetime. A pilot effort to evaluate helicopter medical evacuation services was introduced that year in Mississippi. Three Fairchild Hiller FH-1100 helicopters were purchased and operated to transport patients to medical facilities in cases of extreme need. The program was deemed a success, and throughout the 1970s medevac helicopters and helipads

Stanford Life Flight helicopter



at major hospitals grew increasingly common.

Today, modern medevac operators continue the tradition of using helicopters to quickly and safely transport individuals with serious injuries or critical illnesses directly from incident sites to medical centers able to provide life-saving treatment. Stanford Life Flight, a local operator, embodies the best practices in use for civilian medevac helicopter operations. An Airbus Helicopters EC-145 allows operations in all weather conditions. The aircraft's raised tail boom and rear clamshell doors permit stretcher loading directly into the rear of the aircraft. Specially-trained flight nurses provide in-flight emergency care comparable to or better than what a ground-based emergency medical technician could provide, and medical centers around the San Francisco Bay Area train to operate with Life Flight to receive patients requiring urgent and immediate attention. The Bay Area also hosts medevac resources of the uniformed services, with United States Coast Guard Air Station San Francisco operating its Eurocopter HH-65 helicopters from San Francisco International Airport, and the California Air National Guard's 129th Rescue Wing at Moffett Field in Mountain View flying Sikorsky HH-60s along with fixed-wing Lockheed C-130 tanker aircraft.

The Hiller Aviation Museum's collection preserves glimpses of the early development of medical evacuation flights, while San Carlos Airport supports medevac operations in the present day. A Hiller 360 similar to those first flown by General Andre is displayed in the main Gallery, and a Hiller H-23 configured as a US Army medevac aircraft is suspended from the Gallery's ceiling. San Carlos Airport serves as an essential waypoint for modern medevac aircraft, with Stanford Life Flight and the US Coast Guard frequent visitors for both training and operational missions.

The exploits of General André feature prominently in the Museum's new Women in Aviation exhibit, which documents the exploits of female aviators from the early 20th century through the modern day. On Saturday, January 14th the Hiller Aviation Museum will dedicate

PRESIDENT'S PERSPECTIVE



We look forward to events in January in which we celebrate the aviation accomplishments of women. Coinciding with these activities will be the unveiling of our updated "Women

in Aviation" exhibit which features the stories and exploits of twenty four famous women aviators. The exhibit is designed to be extended and we will continue to add content to the exhibit over time.

The museum also continues to expand its impact and focus with K-12 schools in the Bay Area. The museum's aviation-centered STEM programs dovetail beautifully into science curricula and school field trip visits to the museum are being reserved at a record pace. Joining our education team, led by Jon Welte, is a new talented addition to the staff of the museum, Linh Fanger. She is hitting the ground running, helping make the most of our hands-on activities and learning assets in her role as Director of Education.

The museum's 5th annual Aero Design Challenge was successfully undertaken this October and over 400 youth from the Bay Area spent two days at the museum tackling the challenge of designing and flying drones. We are especially thankful for the event's lead sponsor, SAP, and partners who helped with the program including the Bay Area Science Festival and aviation students from SJSU.

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

*Jeffery Bass, President & CEO
Hiller Aviation Museum*

this new exhibit and open it to the public. Come join the festivities and celebrate an important dimension in the history of aviation.

Resources

*Andre, Valerie. Madame le General, 1988.
<https://www.mercyflight.org/content/pages/medevac>, downloaded 1 November 2016.
<https://stanfordhealthcare.org/health-care-professionals/lifeflight.html>, downloaded 1 November 2016.
*Whitcomb, Darrel, Call Sign Dustoff, 2011.**

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 Create and build large structures using safe and easy-to-manuever foam blocks.



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Use tools of science to explore aviation, aerodynamics, engineering, assembly and design.



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With expert help from one of our volunteer pilots, discover how airplanes move in three dimensions with your hands at the controls.



Hiller Aviation Museum
 601 Skyway Road, San Carlos
 (650) 654-0200 • www.hiller.org



SR-71 PILOT BRIAN SHUL, FRIDAY DECEMBER 30, 11AM



Brian Shul is one of the most popular and dynamic aviation speakers in America today. As an Air Force fighter pilot, Brian was shot down in the Vietnam War and severely burned in the ensuing crash. Initially given up for dead, he was rescued and spent one year in hospitals, endured 15 surgeries and was told his flying days were over. Amazingly, Brian returned to active duty flying, became an Airshow Demonstration pilot in the A-10, went on to become a TOPGUN instructor, and culminated his Air Force career by flying the Top

Secret spy plane, the SR-71. Flying the world's fastest and highest flying aircraft required an astronaut physical and Brian made Air Force history when he passed with no waivers.

SANTA CLAUS ARRIVES BY HELICOPTER

SATURDAY NOVEMBER 26, 10:30 AM
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!



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CALENDAR

DECEMBER

FRI, DEC 2
Home School Friday

SAT, DEC 10 • 10:30AM & 1PM
Starlab Sky Show

MON-FRI, DEC 19-23
Aviation Camp – Extreme Flight

WED, DEC 21 • 11AM
Perfect Paper Plane Workshop

WED, DEC 21 • 10:30AM & 1PM
Starlab Sky Show

SAT, DEC 25 • CLOSED ALL DAY

MON-FRI, DEC 26-30
Aviation Camp – Flight Science Lab/X-Plane Pilot

TUE, DEC 27
Drone Build-a-Thon

WED, DEC 28 • 11AM
Happy Birds

WED, DEC 28 • 10:30AM & 1PM
Starlab Sky Show

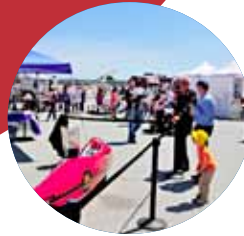
THU, DEC 29
Drone Build-a-Thon

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

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

**GOURMET FOOD TRUCK
DRONE PLEX • SATURDAYS & SUNDAYS
INVENTION LAB • SATURDAYS
FLIGHT SIM ZONE • SATURDAYS
BOY AND GIRL SCOUTS
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To join our Business Circle, contact Rebecca Duran, VP of Development:
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www.hiller.org/join-and-support/business-circle

WINTER RAFFLE

1st Prize: DJI Phantom 3 Standard Drone!
2nd Prize: Drone Day Build-a-Thon All Inclusive Entry!
3rd Prize: MOTA JETJAT Nano Drone Quadcopter!

Tickets now available in the Gift Shop!

Tickets may also be purchased by phone at 650-654-0200 x203 or complete form below for mail or fax entries.

Hiller Aviation Museum Winter Raffle Attn: Development Department 601 Skyway Road San Carlos, CA 94070
Hiller Aviation Museum Winter Raffle Attn: Development Department 650-654-0220

Raffle Tickets: \$10 each, 3 for \$20, or 10 for \$50

Drawing: December 31, 2016

Raffle Entry Form must be received by: 5 pm on Friday, December 30, 2016.

MAIL

Name: _____ # of Raffle Tickets: _____ \$ _____

Address: _____

Phone: _____ Email: _____

Please make checks payable to Hiller Aviation Museum or list credit card info below.

Name on Card: _____

Type of Credit Card: _____ Card Number: _____

Expiration: _____ Security Code: _____ Signature: _____

Questions? Please call the Development Department at 650-654-0200 ext. 203.

More details and official rules available at www.hiller.org/raffle.

OF EVENTS

JANUARY

MON-FRI, JAN 2-6
Aviation Camp – Drone Rangers

WED, JAN 4 • 11AM
Drone Fest

SAT, JAN 7 • 10AM-2PM
Open Cockpit

FRI, JAN 13
Home School Friday

SAT, JAN 14 • 10AM-2PM
Women in Aviation Day

MON, JAN 16 • 10:30AM & 1PM
Starlab Sky Show

FEBRUARY

FRI, FEB 3
Home School Friday

SAT, FEB 4 • 11AM-2PM
Flying Football Fun Fest

SAT, FEB 11 • 10AM-3PM
Garden Model Train Railroad

MON-FRI, FEB 13-17 • 3:30PM
Engineers Week

MON, FEB 20 • 10:30AM & 1PM
Starlab Sky Show

MON-FRI, FEB 20-24
Aviation Camp – Aero Engineers

WED, FEB 22 • 11AM
Drone Fest

**S • WEDNESDAYS, 11AM-2PM,
SUNDAYS, 10:30AM-12PM & 1PM-3PM
TUESDAYS & SUNDAYS, 10:30AM-4PM
WEDNESDAYS & SUNDAYS, 11AM-2PM,
SCOUT PROGRAMS
WWW.HILLER.ORG/SCOUT-PROGRAM**

FOR MEMBERS ONLY – EVENING COCKTAIL RECEPTION

FRIDAY, FEBRUARY 3,
2017, 5-7 PM

A special evening
for those 21 and
over.

Enjoy a free glass
of wine or beer and
light hors d'oeuvres.
See the museum
after hours in a
whole new light!

Members are free.
Members may bring
guests for \$5 per
person.



“NOON” YEARS EVE PARTY • DECEMBER 31 11AM – 1PM

Presented by The Hiller Aviation Museum and Bay Area Parent Magazine

You're invited to attend the “Noon” Years
Eve Party on Saturday, December 31 at the
Hiller Aviation Museum. This annual event is
designed especially for kids. Join us for these
exciting activities:

- Count Down to 12:00 Noon (“Noon” Years)
Balloon Drop in two separate rooms this year
- Slides and Jumpers
- Face Painting, Games and Fun
- Dance Shows, Magic and more!

Event runs 11am-1pm Saturday, December 31 at
the Hiller Aviation Museum. Event included with
museum admission.



OPEN COCKPIT DAY

JANUARY 7, 10AM – 2PM

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 visitors access to real
aircraft cockpits like an A-4 jet trainer, a
Hiller H-12 helicopter and our Boeing 747.
On this special day, we swing open ad-
ditional cockpits including the Grumman
HU-16 Albatross, Boeing 737 airliners 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. Event included
with museum admission.



FLYING FOOTBALL FUN FEST & PUPPY BOWL

SATURDAY, FEBRUARY 4,
10AM – 1PM

Join the excitement of the
Super Bowl as the Hiller
Aviation Museum explores the junction of football and flight
in a family-friendly extravaganza! See a helicopter football
drop, watch a puppy bowl, check out the Drone Bowl combat
demonstrations, experiment with aerodynamics of footballs
and more! Event included with museum admission.



BAY AREA GARDEN RAILROAD

SATURDAY FEBRUARY 11, 10AM – 3PM

The Bay Area Garden Railroad Society's waist-
high track features live steam locomotives.
These railroad engines are designed to be run in
anyone's backyard garden. Live steam locomotives
have a butane-fueled fire that boils water.,
The resultant steam is then used to power the
pistons. This is the same technique full-sized
locomotives have used for 175 years. Many
examples of old-time model steam locomotives
will be seen running on the track, all the while
puffing wonderful plumes of steam.



WINTER PROG

ENGINEERS WEEK

February 13-17

Launch a journey in innovation and prepare for National Engineers Week! This year's exploration into the Engineering Design Process will harness the power of electricity as participants invent, construct and test a device using a small electric motor to solve an aviation-themed problem.



Engineers Week programs are offered 3:30- 5PM Monday through Friday, February 13-17. There is no charge to join these programs but space is limited and advance registration is required at www.hiller.org.



HOME SCHOOL MONDAYS

Drop-In Field Trip Tours and Programs
Grades K-8

Home school students Grades K-8 may be admitted individually at the field trip rate when accompanied by an adult paying regular Museum admission. Flight simulation programs are available at 12:30 PM for an additional fee. No reservations are necessary, space is available on a first-come, first-served basis.



December 2, January 13, February 3, March 3

WINTER AVIATION CAMPS

December, January and February Programs Available

Take to the skies with special Aviation Camp program for Grades K-6! Five different topics are available, each offering hands-on experiments, flying models, flight simulation and encounters with real aircraft.

EXTREME FLIGHT • December 19-23 • Grades K-6

FLIGHT SCIENCE LAB • December 26-30 • Grades K-5

X-PLANE PILOT • December 26-30 • Grades 5-8

DRONE RANGERS • January 2-6 • Grades K-6

AERO ENGINEERS • February 20-24 • Grades K-6

Winter Camp programs are available Full Day (9 AM—4 PM), and extended hours are available for an additional fee. Partial-week enrollment options are available for most sessions to meet school vacation and family holiday plans. Space is limited—register today to secure your child's spot in winter Aviation Camp!

DRONE BUILD WORKSHOP

Drone Build-a-Thon

Drone Construction, Certification and Training for Adults
Tuesday, December 27th & Thursday, December 29th

Aerial Sports League's popular "Drone Day Buildathon" course now includes the newest FPV drone racing technology. Do you want to learn about racing drones but don't have a lot of time? ASL's innovative approach to drone education is perfect for individuals, or small teams of teens, adults and families with kids. ASL provides all the hardware, guidance, hands-on training and FAA registration assistance to provide you with a complete beginner's experience— Plus you get to keep the drone and all the hardware!



Advance registration required for all Drone Build-a-Thon workshops. Visit www.hiller.org for more information, future dates, or to enroll today.



RAMS FOR KIDS



STARLAB SKY SHOW

10:30 AM, 1:00 PM • Dec. 10, 21, 28, Jan. 16, Feb. 4, 20

Enter the Hiller Aviation Museum's newly-upgraded Starlab Planetarium and take a spectacular trip through the glittering stars, planets and constellations of winter. Identify star patterns visible from your own backyard this season during a special 30-minute presentation.

Space for each presentation is limited. Tickets are required and may be purchased at the Gift Shop on the day of the program. Presentations are designed for children aged 5 and up. Children aged 3-5 are welcome to join the first presentation each day. Visit www.hiller.org for more information.



INVENTION & EXPLORATION

Drop-In Weekend/Holiday Activities

The Hiller Aviation Museum offers special interactive activities for families on weekends and select holidays. Invention and Exploration destinations include:



- Invention Lab, open 10:30AM – 4PM
- Flight Sim Zone, open 11AM – 2PM
- FMX flight simulation, open 11AM – 2PM
- Drone Plex, open 10:30AM – 12PM & 1PM – 3PM

Additional fee required for some activities.

Visit www.hiller.org for more information.

DRONE PLEX

Wednesdays, January 4 & February 22 • 11AM-2PM

Remotely operated multi-rotor aircraft are finding their way into our everyday lives as creative designers and operators discover new missions uniquely suited to these tiny flying robots. Join a special presentation offering brief flight demonstrations of many of the most popular multi-rotor designs flying today and exploring the many missions that they fly.



SPECIAL EVENT PRESENTATIONS



PERFECT PAPER PLANES

Featuring Paper Airplane Champion John Collins
Wednesday, December 21 • 11AM-12PM



Join a unique exhibition of paperlight flight! Author and master paper airplane builder John Collins leads an interactive 45-minute session investigating the science of making things fly and the notebook-scale engineering required to fold and fly record-breaking paper gliders. Come prepared to try your hand building and flying your own paper aircraft!

HAPPY BIRDS

Parrots, Macaws and Cockatoos
Wednesday, December 28 • 11AM-12PM

Many birds migrate south for the winter, but not the Happy Birds! Returning to the Hiller Aviation Museum for a special holiday engagement, this talented team of precocious parrots gives a remarkable demonstration of feathered flight. Marvel at their antics as they fly, walk, talk and even sing through a wide range of amazing behaviors that will entertain your whole family!



WOMEN IN AVIATION

Saturday, January 14 • 11AM-2PM

Women have been involved in the pursuit of flight from its earliest days, and the story of pioneering female aviators has always been a part of many artifacts on display at the Hiller Aviation Museum. On Saturday, January 14th the Museum premieres an all-new Women in Aviation exhibit with a special event featuring aircraft and modern-day aviatrixes from across the Bay Area. Planned speakers and exhibits will showcase flying women from local flight schools, commercial airlines, emergency services, air show aviators and more. Hear their inspirational stories, explore their visiting aircraft, and see how the Hiller Aviation Museum's newest exhibit commemorates their contributions to aerospace. All events included with



AVIATION CAMP SUMMER 2017

Dates and topics available online
January 2, 2017

Register early for best selection!
www.hiller.org





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

SPECIAL HOLIDAY SHOPPING

Friday Nov 27 through
Sunday Nov 29

Museum Members
receive a
25% discount
in the Gift Shop
Friday, November 25
through
Sunday, November 27
Only

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

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 _____

Thank you for your support.

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



An Aviator's Paradise,

**Shop on line: www.hiller.org,
Gift Certificates available!**

