



AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS



OCTOBER 2012

VOL. XLI, No. 4

Published by and for the AIAA Long Island Section,
P.O. Box 491, Bethpage, NY 11714

OFFICERS:

Chairman: Dave Paris (516) 458-8593 davidsparis@optonline.net
Vice-Chair: Greg Homatas (212) 268-8595 greghomatas@msn.com
Secretary: Ed Deutsch (516) 781-2262 edjdeutsch@verizon.net
Treasurer: W. Glenn Mackey (631) 368-0433 Glennfly@aol.com

COUNCIL MEMBERS:

Anthony Agnone, Nick DiZinno, Muhammad Hayan, Frank Hayes,
Jason Herman, Peter Kontogiannis, John Leylegian,
Emil Schoonejans, Jason Tyll, and Gerry Yurchison

ADVISOR: Dan Katzenstein

FLIER EDITORS:

Dave Paris, davidsparis@optonline.net
W. Glenn Mackey, Glennfly@aol.com

FLIER PUBLISHER:

John Leylegian, (718) 862-7279, John.Leylegian@manhattan.edu

SECTION WEBSITE:

https://info.aiaa.org/Regions/NE/Long_Island/default.aspx

Webmaster: Gerrv Yurchison

EVENTS CALENDAR

October 4, 5, Aviation Career Fair, at Republic Airport.
Details on page 3.

October 6, The Jet Blue Sky Theater Planetarium opens
at the Cradle of Aviation Museum. Page 5.

October 25, Mike Machat, "Republic - The Company
and its Aircraft," at Dave & Busters. See page 2 for
details.

October 27, Halloween fun at the American Airpower
Museum, Page 8.

November 2, AIAA Region I Young Professional,
Student and Education Conference, at Johns Hopkins
Univ. APL. Abstracts due Oct. 5. For details, go to
Conference website: <http://YPSE2012.org>

November 6, National, State, Local Election. VOTE!

November 9, Field Trip to Arkwin Industries. Please see
page 4.

Suggestion for a meeting? Contact anyone above.

Hofstra College of Liberal Arts and Sciences

and the

School of Engineering and Applied Science

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Note from the Chairman

The Long Island Section is sad to announce the passing of our longtime friend and past Section Vice Chairman Saul Ferdman. He was a retired Grumman VP and a member of AIAA for 65 years. Please see page 6.

Republic retirees will be interested in our October Meeting at which renowned aviation artist and historian Mike Machat will talk about Republic Aircraft Corp. and its famous aircraft. See you there.

Dave Paris, 516-458-8593 davidsparis@optonline.net



JOINT AIAA/ASME/IIIE/IEEE(AES)/AFA/QB SECTION MEETING

Thursday, October 25, 2012

“REPUBLIC – THE COMPANY AND ITS AIRCRAFT”

Speaker: Mike Machat, noted aviation artist, author, and historian

**Location: Dave & Busters
261 Airport Plaza Blvd.
Farmingdale, NY 11735**



**Time: 6:00 PM Social Time
6:30 PM Dinner
7:30 PM Presentation**

**Cost: \$25, Members and Guests
\$10, Students**

**RESERVATIONS REQUIRED
RSVP BY Oct. 24, 2012
to: [David Paris at
davidsparis@optonline.net](mailto:davidsparis@optonline.net)
or (516) 458-8593**

This presentation will review the history of the Republic Aviation Corporation and the legendary aircraft types produced at the Farmingdale plant from 1937 to 1987. Offering an inside look into the early years of the company from the Seversky era to World War II, Mr. Machat will take the audience on a visual journey into the Jet Age and the Cold War. The talk will cover the major aircraft types designed and built by Republic such as the Seversky Racers and P-35, and the Republic P-47, RC-2 Rainbow, F-84 family, XF-91, F-105, and the Fairchild Republic A-10 Thunderbolt II. This presentation will be of interest to Long Island aviation enthusiasts and former employees of the great Republic Aviation Corporation.

Mike Machat has dedicated his career to the documentation of aviation history. He served in the Air Force and with the National Security Agency, earned a BFA degree, was an illustrator, Staff Artist and corporate representative for the McDonnell Douglas Corporation, was a senior flight-rated member of the U.S. Air Force Documentary Art Program, established his own aviation art studio and was elected first president of the American Society of Aviation Artists. Mike's aviation artwork won numerous awards and four of his paintings reside in the permanent collection of the Smithsonian National Air & Space Museum. Mike holds an FAA Commercial Pilot Certificate, has flown in more than 200 different types of aircraft, and has logged 2,000 flights in sailplanes. Mike has been Editor-in-Chief for *Wings & Airpower* Magazine, and has written two best-selling books on commercial and military aviation.

Directions: Take the Northern Parkway to Exit 40S, or the LIE to Exit 49S, or the Southern Parkway to Exit 32N, all at Route 110. Turn East at Conklin Street (Rt. 24) about 3.0 miles south of the LIE and about 2.3 miles north of the Southern Parkway. Drive about 0.4 miles and turn right at the end of the building into the shopping center. Take first right. D&B is on the right.

4th Biennial Aviation & Aerospace Career Fair

Date: October 4th and 5th, 2012

Place: Republic Airport Main Terminal in Farmingdale

Purpose: Educate students about the many exciting career paths available in the aviation and aerospace industries.

Open to: Middle and high school students, teachers, general public

Entrance Fee: None

Features:

Exhibit Booths where students and teachers can talk to professionals in the industries about careers

Aircraft Static Displays and some Flying Displays

Aircraft Simulators

Brief Talks by professionals about their career areas

Registration: Required; go to <http://aerospaceeducationcorp.org/schools>

Organizer & Host: Aerospace Education Corporation (AEC)

The 2012 Career Fair will see an increasing emphasis on science, technology, engineering, and mathematics in all of the various fields represented in this dynamic and growing industry. Students will learn from speakers representing various exciting fields and experiences. They will have hands on experiences of their own at the many exhibitor booths, and first hand discussions with flight crews of our nation's military, rescue, and corporate aircraft. From college representatives to Homeland Security and the Military, there is no other educational experience that brings so much to one place at one time. AEC estimates that this event will be attended by over 2,000 people.

The AIAA Long Island Section has had a booth at each of the previous fairs and will have one again this year. We are there to represent engineering. At each fair, we engage dozens of students in discussions of their interests and talk to them about how an engineering career might fit their talents. This year, we will also make a presentation to groups of students explaining to them what is necessary to become an engineer and giving them examples of engineering specialties. We will show them some of the accomplishments of aerospace engineers.

Note that this is not a job fair. The purpose is education.

For more information, please contact:

Ms. Jennifer Minori

Vice President

Aerospace Education Corporation

631-389-1470

jenniferm@aerospaceeducationcorp.org

www.aerospaceeducationcorp.org





AIAA SECTION FIELD TRIP TO ARKWIN INDUSTRIES

Friday, November 9, 2012

Location: Arkwin Industries
686 Main Street
Westbury, NY 11590

Time: Afternoon, but exact time
TBD

Cost: Free



RESERVATIONS REQUIRED
RSVP BY Nov. 8, 2012
to: David Paris at
davidsparis@optonline.net
or (516) 458-8593

Arkwin designs, engineers, manufactures and supports hydraulic components for virtually every aircraft flying today. Products include Linear Hydraulic Actuators, Hydraulic Reservoirs, Hydraulic Valve Modules, Fuel Powered Actuators, Hydraulic Subsystems, Thrust Reverser Actuation Systems, Hydraulic Swivel Joints, and different types of Hand Pumps.

The company started in 1951 and has grown into a highly diversified company with customers throughout the world. Its original vision of building a company on the cutting edge of aerospace technology has become a reality. Arkwin has earned a reputation for quality and reliability. It is a leader in custom-designed, precision hydraulic and fuel system components for civil and military fixed-wing aircraft, helicopters, spacecraft, turbine engines, and other special applications.

Arkwin actuators are on Boeing, Airbus and Sikorsky aircraft and GE engines. Aircraft include the F-35 Lightning II Joint Strike Fighter, V-22 Osprey, CH-47 Chinook, and F-22 Raptor.

Directions: Wantagh State Parkway exit W2 West onto Old Country Road. After 0.4 miles, turn right onto State Street. Take first right onto Main Street. Arkwin is immediately on the right.

19th AIAA/CEAS Aeroacoustics Conference (34th AIAA Aeroacoustics Conference)

Abstract deadline: October 31, 2012. Conference will be held in Berlin, Germany in May 2013.

REPORT ON SEPTEMBER SECTION MEETING

On Wednesday September 12, the AIAA Long Island Section sponsored a joint meeting at the Bethpage Public Library on "100 Years of US Marine Corps Aviation" presented by Bernie Feuer. Mr. Feuer is a seasonal park ranger with the US Department of Interior at the Gateway National Recreation Area and has presented many historical lectures on military history and the local history of the Rockaways. A total of thirty members, non-members and guests attended including representatives from AIAA Long Island Section, the ASME Long Island Section, Air Force Association and the IIE NYC Long Island Chapter. We all enjoyed pizza and soda prior to the meeting before retiring to the auditorium for the presentation.



Mr. Feuer spoke of the various campaigns that the US Marine Corps were engaged in starting from their beginning to the present day. He also spoke about the Marine Corps need to have an air arm of their own for close air support and not to depend on other services for the success of their missions. Regarding USMC history, Bernie gave a capsule summary of the force's beginnings from the historic Halls of Montezuma and then recounted the Marines' aviation history with beginnings in US Naval aviation pre-World War I to World War I in France, banana wars of the 1920s and 1930s in Central America, Wake Island, Henderson Field, Peleliu and Iwo Jima in World War II, Korea, Vietnam up to the present day in Iraq and Afghanistan.

We all enjoyed this historical tribute to the air arm of one of our armed services.

Greg Homatas

Cradle of Aviation Museum

1 Davis Ave. Garden City, NY 11530 (516) 572-4111

<http://www.cradleofaviation.org/>

The Jet Blue Sky Theater Planetarium will officially open on Saturday, October 6th in conjunction with World Astronomy Day and the Columbus Day weekend. All planetarium tickets for the opening weekend, October 6th, 7th and 8th are \$5.00* for children or adults. The opening weekend will include the Long Island premiere of three new Planetarium shows, "One World, One Sky: Big Bird's Adventure", "We are Astronomers" and the Tom Hanks narrated "Passport to the Universe." The new digital dome Sky Theater Planetarium has a state-of-the-art high-resolution projection and sound system which provides an exciting, entertaining and unparalleled experience that will take you to worlds you've never imagined.

Visit the Cradle with your children and grandchildren, explore their world-class exhibits, talk to their knowledgeable docents, join in their events, and watch a first run movie in their wide screen domed theatre. The Cradle always has great events planned, especially for students.

SCOUTS - The Cradle of Aviation Museum Scout Department invites you to the 1st Annual Space Derby! - Sat., Oct. 13th, 9:30 AM Check-in

Work on your Space Derby rockets in your den meetings and come race them on Space Derby Day! Win, place, show and "Best of Show" trophies and participant patches will be awarded. Space Derby Kits can be purchased at your local Scout Shop. Space is limited! For registration, please call Marie Ilardi at 516-572-4062. FREE with museum admission.

IN MEMORY OF SAUL FERDMAN

Saul Ferdman, a past Vice Chairman and member of the Long Island Section Council and a retired Grumman executive died on September 18 at age 88. He was a member of AIAA for 65 years. A memorial was held for him at the Cradle of Aviation, where he served as a docent for a number of years. He had most recently been living in a nursing home in Westchester. The Long Island Section will miss his contributions and good humor.



A Brooklyn native, he graduated from Stuyvesant High school in 1941, and was attending the Guggenheim School of Aeronautics at the New York University College of Engineering when he interrupted his education to enlist in the Army Air Corps in 1942. After graduating from navigation school in the spring of 1944, he shipped out to Great Britain and joined the 407 Bombardment Squadron of the 8th Air Force. His Group flew the B24-H out of Cheddington, near London and was highly unusual, as it was the only American Group that flew at night and every airplane went out alone. They dropped counterfeit currency, counterfeit ration books, surrender leaflets, and an occasional agent. After flying 42 missions as navigator/bombardier, he returned from Europe and was given other assignments, including a few special missions in the Pacific in C-54's. First Lieutenant Ferdman was discharged from the Army Air Corps in November 1945. After returning to civilian life, Saul finished his education at NYU earning a bachelor's degree in aeronautical engineering in 1947, and a master's degree in the same field in 1951. He then joined the Grumman Aircraft and Engineering Corp., starting his four decade career as a structural flight engineer in 1951. From 1961 to 1972, he held a number of key management positions in the Grumman space program, the keystone of which was the design and construction of the vehicles that landed astronauts on the moon during the Apollo program. Ferdman's role during that period largely was to market the various space vehicles that the company designed. He was later vice president of government marketing for Grumman Allied Industries, a business unit that developed postal trucks and other non-aerospace products. He retired as Vice President of the Electronic Systems Division.

In February, 2008, Saul gave a presentation to the Long Island Section about his Personal Memories as a Navigator/Bombardier in the U.S. Army Air Corps 8th Air Force in WWII. The talk was well received and Saul was asked to repeat the talk for five other local professional societies.

Saul had been an avid tennis player, stamp collector and lover of art and music. He attended numerous Broadway shows and was a subscription member of the Metropolitan Opera.

Saul is survived by four children, Susan Ferdman Parker of Briarcliff Manor, Deborah Ferdman Drucker of Randolph, N.J., Sandra Ferdman Comas of Redding, Conn., and Richard Ferdman of San Jose, Calif., and six grandchildren.

AIAA SECTION AWARDS ANNOUNCED SEPTEMBER 24, 2012

The **Public Policy Award** is presented for stimulating public awareness of the needs and benefits of aerospace research and development, particularly on the part of government representatives, and for educating section members about the value of public policy activities. The winners include:

Medium: First Place: Long Island, Frank Hayes, public policy officer

The **Communication Award** is presented to sections that have developed and implemented an outstanding communications outreach program. Winning criteria include level of complexity, timeliness, and variety of methods of communications, as well as frequency, format, and content of the communications outreach. The winners include:

Medium: Second Place: Long Island, David Paris, newsletter editor

The **Outstanding Section Award** is presented to sections based upon their overall activities and contributions through the year. The winners include:

Medium: Third Place (tie): Long Island, David Paris, section chair

Tribute to Neil Armstrong 1930 - 2012

Neil Armstrong, the first man to walk on the moon, died on August 25, at age 82, from “complications resulting from cardiovascular procedures.” He had undergone heart bypass surgery.

He was a quiet, private man, at heart an engineer and crack test pilot, who had learned to fly by the time he was 15. He was an engineering student at Purdue University on a Navy scholarship when he interrupted his education to become a Navy fighter pilot during the Korean War, in which he flew 78 combat missions. He became a test pilot for NACA and made seven X-15 flights at 4,000 miles per hour, reaching the edge of space, and piloted many more of the most innovative and dangerous aircraft ever developed. As the first American civilian astronaut to fly in space, he commanded the Gemini 8 mission in 1966 where he and his copilot performed the first successful docking of two vehicles in space by linking the Gemini to an unmanned Agena in an essential test for later operations on lunar flights. As commander of Apollo 11, he radioed to mission control “Houston, Tranquility Base here, the Eagle has landed.”

Then upon climbing down the ladder to the lunar surface, the famous “That’s one small step for man, one giant leap for mankind.”

After returning to Earth, he was an associate NASA administrator for aeronautics, but tired of a Washington desk job. Ignoring many high-level offers in business and academia, he returned to Ohio as a professor of aeronautical engineering at the University of Cincinnati and bought a farm near Lebanon, Ohio. He also served as a director for several corporations. Ever modest, he was “a reluctant hero who always believed he was just doing his job.” He traveled and gave speeches but rarely gave interviews and avoided the spotlight. In 2008, at the AIAA sponsored NASA 50th Anniversary celebration, he gave an excellent speech about the challenges facing NASA (picture at bottom right).

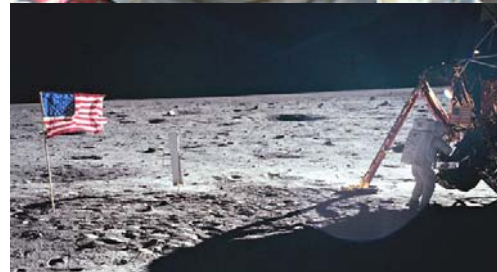
“He remained an advocate of aviation and exploration throughout his life and never lost his boyhood wonder of these pursuits.”

AIAA is honored to have been chosen by the Armstrong family as one of three recipients of gifts made in memory of Neil Armstrong. Gifts to the **Neil Armstrong Scholarship Fund** will provide scholarships to outstanding aerospace students.

Donate on line by choosing “Donate” at www.aiaa.org.

Or by mail to:

The American Institute of Aeronautics and Astronautics
Neil Armstrong Scholarship Fund
1801 Alexander Bell Drive, Suite 500
Reston, VA 20191-4344





The American Airpower Museum – Where History Flies!

1230 New Highway
Farmingdale
New York, 11735

Phone: 631-293-6398
Office of Public Affairs: 212-843-8010
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