



AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS



JANUARY 2013

VOL. XLI, No. 5

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

**FLIER PUBLISHER:**

John Leylegian, (718) 862-7279, [John.Leylegian@manhattan.edu](mailto:John.Leylegian@manhattan.edu)

**SECTION WEBSITE:**

[https://info.aiaa.org/Regions/NE/Long\\_Island/default.aspx](https://info.aiaa.org/Regions/NE/Long_Island/default.aspx)

Webmaster: Gerrv Yurchison

**EVENTS CALENDAR**

**January 7-10**, AIAA Aerospace Sciences Meeting, Grapevine, Texas. Long Island Section Council member Nick DiZinno will present a paper.

**January 12**, Flying Model Competition at the Cradle of Aviation Museum. More information on page 6.

**January 18**, Field Trip to Arkwin Industries. Please see page 3.

**January 24**, Jason Kendall, "Curiosity: Seeking Habitable Locations on Mars." At the Bethpage Library. Details on page 2.

**February 12**, Engineers Week Seminars sponsored by the Engineers Joint Council of Long Island, at Dave & Busters, Farmingdale. Details in next FLIER.

**February 13**, MESC Engineers Week Celebration at the Polytechnic Institute of NYU in Brooklyn. Information and sign-up sheet on page 4.

**February 27**, 10th Annual Cradle of Aviation Museum Air & Space Gala. <http://www.cradleofaviation.org> for information.

*Note from the Chairman*

We have not published a FLIER since before Hurricane Sandy hit New York. For those of you who have been seriously impacted by the storm, we hope that your families have recovered and that your homes and businesses have been or are being restored to their previous conditions. My wife and I were without power for six days and without internet, cable, and land line phone for nine days. But we know that was minor compared to what many people endured. As we traveled around looking at the damage in our Floral Park neighborhood, we were amazed at the many large trees that had been uprooted and how little damage to homes they had caused. We heard of many much worse stories.

The impact on the Long Island Section activities was minimal. We had to postpone the Field Trip to Arkwin Industries originally planned for November 9. We have rescheduled to Friday, January 18. We know the 2 pm timing is difficult for some members, but please join us if you can.

On October 25, noted aviation artist, author, and historian Mike Machat traveled from California to Long Island to give us a presentation on "REPUBLIC – THE COMPANY AND ITS AIRCRAFT." This was our first meeting at Dave & Busters in Farmingdale and our first dinner meeting since the 56th Fighter Group Restaurant closed. We will miss the ambiance, food, and service we enjoyed at the 56th, but we had to explore other venues. If you attended that meeting, please let the Council know of your impressions of Dave & Busters. It was particularly appropriate for this talk because it is located on the land previously occupied by Republic Aircraft. A summary of the talk appears on page 5.

The election is over, but the negotiations over budget cuts will be going on for a while. If you feel as I do, now is a great time to let your senators and congressmen or congresswomen know how important continued support for aerospace, research, and education are to the future of our country.

**Dave Paris, 516-458-8593 [davidsparis@optonline.net](mailto:davidsparis@optonline.net)**



**JOINT  
AIAA/IEEE(AES)/IIE  
SECTION MEETING**



Thursday, January 24, 2013

**Jason Kendall, NASA/JPL Solar System Ambassador**

**"Curiosity: Seeking Habitable Locations on Mars"**

**Location:** Bethpage Public Library  
47 Powell Avenue  
Bethpage, NY 11714

**Time:** 6:00 PM Social Time  
6:20 PM Pizza  
6:50 PM Presentation

**RESERVATIONS REQUESTED**  
**RSVP BY Jan. 23, 2013**  
**to: Greg Homatas at**  
**[greghomatas@msn.com](mailto:greghomatas@msn.com)**  
**or (718) 812-2727**

**Cost for Pizza:** \$5, Members and Guests  
Free, for Students

The Mars Science Laboratory, Curiosity, landed successfully on Mars in Gale Crater on August 6<sup>th</sup>, 2012. This presentation will review its findings so far and relive the nail-biting ride to the surface of Mars. Curiosity's goal is to determine whether or not Mars once could have supported life. Mars today is a cold desert, but it was very different in the distant past. The Mars Rovers Spirit and Opportunity found overwhelming evidence for liquid water on Mars' surface, with shallow oceans now gone dry, and with the remaining water now hidden deep in the rocks. Did life arise on Mars long ago? This robotic adventurer is trying to help us answer the most important question of all: did our Solar system ever host life on two planets?

Jason Kendall is the NASA/JPL Solar System Ambassador for New York City. He holds a Master of Science in Astronomy from New Mexico State University and is adjunct faculty at William Paterson University. He has taught Astronomy at the high school and college level and has led numerous "star-watching parties" and astronomy events in New York City, New Mexico, Minnesota and Texas. He has given numerous talks on NASA missions and has hosted events all over New York City. He is also a volunteer at the American Museum of Natural History. Jason's research has included Galactic distributions of A stars (some of the more common stars seen with the unaided eye) and photon propagation during the Early Universe.

Jason will teach an online course, Introduction to Cosmology, running from Jan 17 to May 5, 2013.

**Directions:** The library is west of Route 135 in Bethpage. Take Route 135 to Exit 8, then West on Powell Ave. for about 0.25 miles. The library is on the south side of the street. Park across Powell Ave., opposite the library.



## AIAA/IEEE (AES) JOINT FIELD TRIP TO ARKWIN INDUSTRIES

Friday, January 18, 2013  
(Rescheduled from November because of Storm Sandy)

**Location:** Arkwin Industries  
686 Main Street  
Westbury, NY 11590

**Time:** 2 PM

**Cost:** Free



**RESERVATIONS REQUIRED**  
**RSVP BY Jan. 17, 2013**  
**to: David Paris at**  
[davidsparis@optonline.net](mailto: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.

# ENGINEERS WEEK CELEBRATION

Sponsored by the

METROPOLITAN ENGINEERING SOCIETIES COUNCIL (MESC)

and

HELLENIC AMERICAN TECHNICAL CHAMBER (HATC)

RESERVATIONS REQUIRED FOR DINNER **THE PUBLIC MAY ATTEND THE LECTURE ONLY AT NO CHARGE.**

Date: Wed, Feb. 13, 2013 (Snow Date: Wed., Feb. 27, 2013 please call 212-879-4427)

Where: Polytechnic Institute of NYU Brooklyn, NY 11201  
For Directions: [www.poly.edu/directions/](http://www.poly.edu/directions/) (Click on Brooklyn Campus)

Time: 5:30 pm Registration in Regna Lounge, Rogers Hall  
6:00 pm Benediction- Father John Romas, Pastor of St. Nicholas WTC Church  
Light Buffet, Regna Lounge, Rogers Hall

Program: 7:00 pm, Regna Lounge, Rogers Hall  
7:00 - 7:25 Welcome & Introductions  
Wasył Kinach, P.E., MESC Chair  
Jerry M. Hultin, President, Polytechnic Institute of NYU  
7:25 - 7:45 Presentation of Mayor's Proclamation  
7:45 - 7:50 Introduction of Keynote Speaker, Gregory E. Homatas, P.E.  
7:50 – 8: 45 Keynote Address- Speaker: Nicholas P. Kotsoumitis, AIA; Principal ,  
KAPC Architects

Topic: Replacement of St. Nicholas Church At World Trade Center

Cost: \$50.00 – mailed reservations and check required by February 1, 2013  
No "At Door" payment  
1 PDH (expected) for this meeting

Please mail your check made payable to MESC and mail it with the tear-off below to:  
MESC, PO Box 1981, Church Street Station, New York, NY 10008-1981

-----  
February 13, 2013 ENGINEERS WEEK CELEBRATION

Fee Enclosed: \_\_\_\_\_ Phone #: \_\_\_\_\_

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Company: \_\_\_\_\_ Society: \_\_\_\_\_

Address: \_\_\_\_\_ E-Mail \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

FOR ADDITIONAL INFORMATION, CONTACT WASYL KINACH, e-mail: [info@mescnyc.org](mailto:info@mescnyc.org),

Tel: (212) 669-2203



## **REPORT on JOINT AIAA/ASME/IIIE/IEEE(AES)/AFA/QB SECTION MEETING**

On October 25, noted aviation artist, author, and historian Mike Machat presented “REPUBLIC – THE COMPANY AND ITS AIRCRAFT” to a section meeting at which we were joined by the local sections of the ASME, IIE, IEEE(AES), Air Force Association, and Quiet Birdmen.

Mike reviewed the history of the Republic Aviation Corporation and the legendary aircraft types produced at the Farmingdale plant from 1937 to 1987. He presented an inside look into the early years of the company from the Seversky era to World War II and showed pictures of many of the famous Republic Aircraft including 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. The audience enjoyed the visual journey through the 1930's, 40's, the Jet Age and the Cold War. There were numerous questions and comments.



## **REPORT on the 4th Biennial Aviation & Aerospace Career Fair**

The Long Island Section again manned a booth at the Career Fair, this year renamed to include aerospace. The two-day event, held at the Republic Airport Main Terminal in Farmingdale on October 4th and 5th, was attended by hundreds of students and many teachers and parents. Many colleges, local companies, military units, and organizations set up displays and talked to students about career opportunities in aviation fields. The engineers at Northrup Grumman's booth and at our booth handed out information booklets and engaged dozens of students in conversations about their interests and how aerospace engineering could fit their talents. This was right in line with the purpose of the event: to Educate students about the many exciting career paths available in the aviation and aerospace industries.



Section Chairman Dave Paris gave a short presentation to a few hundred students explaining aerospace engineering, giving them examples of engineering specialties, and showing them some of the accomplishments of aerospace engineers. A number of other speakers described their fields as well, including Astronaut Daniel Burbank. There were also aircraft simulators, aircraft static displays and some flying displays.

The Career Fair is organized and run by the Aerospace Education Corporation (AEC). This year, they have increased emphasis on science, technology, engineering, and mathematics in all of the various fields represented.

## **Cradle of Aviation Museum**

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

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

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.

---

### **Flying Model Competition - Saturday, Jan. 12, 9:00-3:30**

This will be the sixth year that the Long Island Section co-sponsors the Flying Model Competition with the Cradle of Aviation Museum. Section members help plan the event and will give a presentation about aerodynamics and airplane control, lead a model construction session, and serve as judges during the competition. Teams of three students will build balsa wood airplanes and compete in four flying events to test their models and their flying skills. Trophies and prizes will be awarded to the teams with the best performing models. The competition is for 3rd-5th graders, and is FREE with museum admission. Pre-registration is required; call 516-572-4028 to register for your children or grandchildren. Call Dave Paris at 516-458-8593 or e-mail at [davidsparis@optonline.net](mailto:davidsparis@optonline.net) to volunteer.

---

### **10th Annual Cradle of Aviation Museum Air & Space Gala**



**Wednesday, February 27th, 6:30 PM**  
**Celebrating the 40th Anniversary of Apollo 17.**

For Gala information and online ticketing, please visit the Cradle's website <http://www.cradleofaviation.org> or call Carol Nelson at 516-572-4026.

---

Visit the aircraft  
exhibits at the



### **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  
[www.americanairpowermuseum.com](http://www.americanairpowermuseum.com)