



# Montauk to Manhattan



## Long Island & Metro NY Chapter 86 - eNewsletter

### In This Issue | April 2010

- April Meeting Announcement ..... Page 1
- Events Calendar ..... Page 1
- Presidents Message ..... Page 2
- Review of March Meeting ..... Page 2
- Membership Information ..... Page 3
- Job Opportunities ..... Page 3

### April Meeting Announcement

#### Topic: **Tour of LIRR Hillside Maintenance Complex**

Host: *Frank E. Pfister, PE, Director - Fleet, Shops & Yards Strategies*  
*Andrea L. Uriarte - General Foreman, MU Shop Management*

Date: **Monday, April 19th, 2010**

Time: 6:30pm – presentation & tour

Place: Meet at Hicksville Station, NY  
*(Directions & Time will be provided once your reservation is received.)*

#### Reservations: Required - Space for this events is limited

RSVP by Friday, April 16, 2010, 12pm to Tom Fiorella 516-214-5588 or email at [tfior9651@msn.com](mailto:tfior9651@msn.com). Please indicate: Name, Organization/Company, Title, Day Time Phone and/or email address, Member Affiliation (IIE / SME)



The Long Island Railroad operates approximately 1000 electric cars with its most recent purchase of 836 M-7 cars from Bombardier. Additionally the Railroad operates 23 diesel electric and 22 dual mode locomotives manufactured by EMD that haul a fleet of 134 Bi-level cars produced by Kawasaki Rail Car. The 836 M-7 cars are the latest addition to the LIRR fleet that undergoes a scheduled maintenance program primarily at the Hillside Maintenance Complex. The Hillside Maintenance Complex includes a car shop with 58 car spots for scheduled FRA mandated periodic inspections and maintenance programs as well as unscheduled running repair work. Adjacent to this area is a 26,300 square foot component change out area that facilitates the removal of large components such as trucks and HVAC units.

As you can imagine a railcar is comprised of numerous systems and components of which some are replaced and others are rebuilt at designated intervals to support the preventative maintenance program. To accommodate the rebuilding efforts, the Hillside Maintenance Complex also houses truck, wheel, motor, HVAC, air brake, air compressor, switch group, coupler, battery and electronics shops. These shops are all currently undergoing a retooling effort to adapt to the new technologies of the M-7 fleet. The Hillside Maintenance Complex also utilizes two automated storage and retrieval systems for components and parts. Other major equipment includes car hoists, truck hoists, trestle tracks, raised platforms, and bridge and trolley cranes. Your tour will take you through the many rebuilding (manufacturing) processes of the Hillside Maintenance Complex.

### Long Island Metro NY Chapter 86 Events Calendar

Monday, April 19, 2010

Topic: Tour of LIRR Hillside Maintenance Complex - See details on this page

Tuesday May 18, 2010

Topic: Tour of Air Techniques, Inc.  
Time: 6PM  
Place: Melville, NY

### Professional Events Calendar

#### APICS

Tuesday, April 20, 2010

Topic: The "No Excuses" Supply Chain  
5:30 PM Networking, 6:15 PM Dinner  
7:15 PM President's Welcome & Announcements, 7:30 PM Presentation at Panama Hatties - 872 Jericho Turnpike, Huntington Station, NY  
Details: [www.apicsnyc-li.org](http://www.apicsnyc-li.org) or 631-266-2621

#### ASME and AIAA SECTION MEETING

Saturday, April 24, 2010

Topic: 40th Anniversary Celebration of the Rescue of Apollo 13  
Speakers: Apollo 13 Astronaut Fred Haise  
Grumman President and LM Program Director Joe Gavin

Time: 3:30 PM - Apollo 13 IMAX Movie  
5:30 PM - Tour of the Cradle of Aviation Museum / Optional VIP Reception  
6:30 PM - Dinner followed by Panel Discussion with Fred Haise and Joe Gavin  
See Details: on Page 4

## President's Message



We are getting close to the summer break with just three more monthly meetings to go. This month we will be boarding a commuter train in Hicksville, which will take the tour attendees to the LIRR Hillside Maintenance Complex. It was exactly 6 years ago that IIE had visited this facility. If you happened to have been on that tour you know what a great event it was. If you had missed it, please join us for what will be a very memorable event.

Next month the Chapter will be joining with the members of APICS and SME on a tour of Air Techniques, Inc. in Melville. The date is Tuesday, May 18. So mark your calendars now and plan to register for this event early as this is expected to be a very popular tour. Some of you may have been at the October, 2009 joint meeting with APICS and SME where Richard Povak, Air Techniques' President was part of the discussion panel. Mr. Povak had provided information on the wellness of the Company and how it was making investments in its management team by providing Lean and APICS CPIM training. He also addressed the students in attendance and told them the importance of education, which does not end with their formal education. Mr. Povak stressed that education is a continuous process by reading business and management books and getting involved with organizations such as ASPICS, IIE, and SME.

Today continuing your education is made easier by conducting research on the internet. I also recommend joining a professional network such as LinkedIn and join the IIE group. Some of the topics that are currently under discussion are: What is IE, What are the differences and similarities between Industrial Engineering and Lean Six Sigma, Work Measurement Practices: How are you capturing/measuring work content, What are the differences and similarities between Industrial Engineering and Lean Six Sigma, What is the biggest IE innovation since 2000?, and How can lean be implemented in a hospital? Just to mention a few.

Chapter 86 President

*Tom Fiorella*

## Review of the March Meeting

By: *Salvatore Damasco Jr., SME Director*

On the evening of March 22, I had pleasure of attending one of the best overviews presented of a company's objectives, operations and philosophy. Steve Landry, President / COO of Cox and Company and Peter Kontogiannis, Product assurance Test Engineer at Cox and Company gave excellent presentations.

The product line as well as the marketing approach is unique. The company is well managed with the engineers at the helm as opposed to most companies having the HR department making the key decisions affecting the engineering staff. Cox and Company has been able to have an exclusive hold on products through patents and certifying other vendor products via their test facilities. They are the "UL" of the FAA, and it's because the owners are innovative in their thinking. Cox and Co is 100% employee owned, and according to Steve Landry "their people are their most valued asset". The employee turnover is less than 1%. They offer better than average compensation and benefits.

Their line is made up of a unique niche of products including but not limited to de-icing systems for aircraft, special heaters for cockpits, floors, walls, and other specialty products for commercial and military aircraft. The manufacturing process combines old world apprenticeship and technology with modern technology. Most of what is made is one of a kind, the labor is intensive. The profit is in the aftermarket sales and on the up front engineering charges. Because they hold the product patents, not just any company can compete. If they do, they would still need to deal with the FAA to have the product approved, and Cox is the "go to" company for the FAA's approval.

(Continued on next page)

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Self-improvement through innovative thinking is the norm. Engineers and designers are allowed to explore improvements and new ideas individually or as a team. They use forward thinking to anticipate customer needs and develop new methods and products based on these needs. They have machines over 50 years old as well as new. When they relocated from Manhattan they did not throw out and buy new. They moved everything from the furniture to the equipment. Don't get the wrong impression; they are not a rundown operation. This company is lean and clean. They take advantage of their space and facilities in an economic form.

You can check them out at [www.coxandco.com](http://www.coxandco.com).



Steve Landry, President / COO of Cox and Company at end of conference table.



Cox and Co. Temperature Control Products



Cox and Co. Electro-Thermal Ice Protection Systems

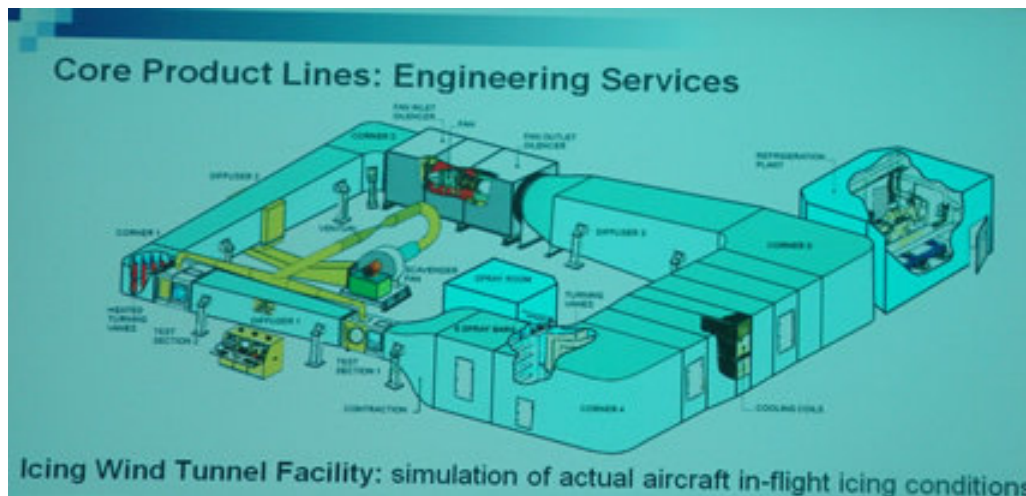


Illustration of Cox and Co. Wind Tunnel that took eight months to dismantle and relocate from the Manhattan and re-assembly at the Plainview facility.

## **Chapter 86 Membership Information**

Long Island & Metro NY Chapter  
Current Active Membership = 135

About IIE Founded in 1948, IIE is the premier society dedicated to serving the professional needs of industrial engineers and all individuals involved with improving quality and productivity. IIE has over 15,000 members and more than 280 chapters worldwide.

Who benefits from membership? There are hundreds of job titles given to people, who manage, design, install, or maintain integrated systems of people, machinery, and information. No matter what your job title, if you are the person called upon for solutions when there is an issue that requires your attention, you belong in IIE.

To become a member of IIE call 1 800 494 0460 or log onto [www.iienet.org](http://www.iienet.org) & click on Join IIE

## **Job Opportunities**

**Local job positions that may be of interest to IIE members are posted on the Chapter's website at [www.iienet.org/long\\_island](http://www.iienet.org/long_island) (See the Chapter's Careers Page for details) Current Job Posting includes:**

### **Product Manager**

#### **JOB DESCRIPTION**

Looking for a dynamic leader with strong communication skills to lead all aspects of the product line, by prioritizing and coordinating the cross functional support activities. Responsibilities include: Product line development, justification, and life cycle planning. Pricing and Cost objectives to maximize profitability. Product service and support strategy. Work with sales and marketing to develop messaging and competitive positioning analysis. Coordinate all aspect of new product programs. Analyze and propose future product and technology opportunities. Interface with quality, operations, and engineering to continuously improve product quality. Interface with customers and attend industry events. For Job Requirements and other job postings at **Air Techniques, Inc.** Go to [www.airtechniques.com](http://www.airtechniques.com) and click on Careers.

## ASME and AIAA LI Sections Program Announcement

### 40<sup>th</sup> Anniversary Celebration of the Rescue of Apollo 13

**Saturday, April 24, 2010**

– Cradle of Aviation Museum –  
Charles Lindbergh Boulevard • Garden City, NY

Guest Speakers



### Apollo 13 Astronaut Fred Haise Grumman President and LM Program Director Joe Gavin

Program Schedule

**3:30 PM** *Apollo 13 IMAX Movie*

**5:30 PM** *Tour of the Cradle of Aviation Museum / Optional VIP Reception*

**6:30 PM** *Dinner followed by Panel Discussion with Fred Haise and Joe Gavin*

**Cost:** \$50 per attendee – includes Movie, Tour, Dinner and Panel Discussion. VIP Reception is an additional \$50 per attendee. **Payment must be made directly to the Cradle of Aviation Museum no later than April 20, 2010. Call the Museum at 516-572-4066 for payment method details.**

**Registration:** To ensure you are seated with your ASME and AIAA colleagues, please **also** register no later than April 20, 2010, by calling Maxine Dart at **516-575-3745**. Please provide your name, daytime phone number, society affiliation and number of attendees. **We would especially like to know if you worked on the LM and/or supported the Apollo 13 rescue effort.**

**Information:** Call Phil Jacknis, 516-575-9765, or the Cradle of Aviation Museum, 516-572-4066, for more info.

**Directions:** Follow this link: [http://www.cradleofaviation.org/general\\_info/generalf.html](http://www.cradleofaviation.org/general_info/generalf.html)

**Program Description** – April, 2010, marks the 40<sup>th</sup> anniversary of one of the most dramatic episodes in the history of manned space flight, the rescue of Apollo 13 astronauts Jim Lovell, Fred Haise and Jack Swigert, whose lives were endangered and whose mission to land on the moon was aborted due to an explosion in their spacecraft on the way to the moon. The NASA/Grumman Lunar Module (LM) played a key role in this rescue.



The Lunar Module's main functions were to carry two astronauts from lunar orbit to the moon's surface and then return them to lunar orbit to rendezvous and dock with the Apollo command and service modules. On the surface, the LM served as a shelter and base of operations as the astronauts carried out their exploration and experiments. During the Apollo 13 rescue effort, the LM became an improvised lifeboat, providing oxygen and electrical power to sustain the astronauts and propulsion for maneuvering. This enabled the astronauts to eventually re-enter the command module and return home. The remarkable men and women of Grumman who had worked on the design of the LM also contributed untold sleepless hours in Bethpage and Houston to perform analyses, provide data and develop procedures to get the astronauts home safely. Apollo 13 Astronaut Fred Haise and Grumman President and LM Program Director Joe Gavin will recount the

experiences of the endangered astronauts and the role of the LM and the Grumman personnel in the rescue effort.

Prior to the dinner and panel discussion, attendees will be treated to a showing of the exciting Apollo 13 movie in the Cradle of Aviation Museum's IMAX theatre. After the movie, attendees may participate in an optional one-hour VIP Reception, affording them the opportunity to meet and interact with the guest speakers on a more personal basis. The Museum's exhibit space will also be open for all attendees to tour at that time.

The Cradle of Aviation Museum's announcement can be found here: <http://cradleofaviation.org/>