



Montauk to Manhattan



Long Island & Metro NY Chapter 86 - eNewsletter

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October Meeting Announcement

Topic: Top Management Strategies

Panelists: Ann D. Shybunko-Moore President and owner of GSE Dynamics,
Richard Povak President of Air Techniques
Frank Robilotto Executive V.P., General Manager Arkwin Industries, Inc.

Date: Tuesday, October 27
Time: 5:30pm -Networking/Refreshments, 6:15pm – Dinner, 7:15pm President's Welcome & Announcements

Place: Panama Hatties - 872 Jericho Turnpike, Huntington Station, NY 11746
Dinner Fee: Pre-Register: Members \$30, Non-members \$35, Students \$15
Register at Door: Members & Non-members \$35, Students \$15
(Presentation is at no-cost)

Directions: Panama Hatties is located on Jericho Turnpike (Rt. 25) 1.8 miles east of Rt.110 next to Nissan

Reservations: Required

RSVP by Monday, Oct. 26, 2009 - E-mail your reservation to meetings@li-apics.org or call **631-266-2621**. To pay & make your reservation online go to the APICS Professional Development Meeting page at <http://www.apicsnyc-li.org/resources/pdm2010/pdm1009.html>
Please indicate: Name, Organization/Company, Day Time Phone, Member Affiliation (APICS, IIE, or SME)

The Panelists will be asked to address the following question: How has the change in the economic climate affected your business and what are you doing to maintain your presence in a very competitive marketplace?

This distinguished panel will be asked questions that are directly related to the meeting's subject and we are looking forward to their insights on how they are coping with the current economic environment, what changes they had to make, and what new techniques they are employing to help them remain competitive in a very lean economy. (see About the Speakers beginning on page 4)

Long Island Metro NY
Chapter 86
Events Calendar

Tues., Oct, 20, 2009

FREE Webinar!
Hosted by Boston Chapter

Topic: Job Preparation - Targeting Industrial Engineers (Lean-Sigma - Your Resume & Job Search)

Time: 6-7pm EDT
(see Northeast Region October Webinar details on page 4)

Tues., Oct., 27, 2009

Topic: Top Management Strategies
See details on this page

Mon., Nov., 23, 2009

Topic: MiniTab – Quality Analysis Software Application

Time: 6:00 PM Networking
6:30 PM Presentation

Place: Air Techniques, Inc.,
Melville, NY

Professional
Events Calendar

AIAA Long Island Section
Thursday, October 22, 2009
6pm Social Time, 6:30pm Pizza,
7:00pm Presentation

Topic: Race Car Aerodynamics

Location: Bethpage Public Library
47 Powell Avenue, Bethpage, NY
(See details on page 6 flyer)

President's Message



Last month we had a presentation from Rob Hasselbrook of Capsys Corp., who discussed how prefabricated modular construction could be an advantage over traditional construction. One big plus is that a project can be completed in less time resulting in earning a pay back sooner. Please read Carolyn's article below for all the details.

The October meeting scheduled for October 27, comes a bit late in the month as we will be joining APICS on a presentation that will take a look at how the top management of three Long Island businesses are dealing with the current economic conditions. This is a dinner meeting at the 4-star restaurant of Panama Hatties located in Huntington Station, NY. If you would like to attend the presentation without attending the dinner portion you can arrive a little later as there is no charge for the presentation. I hope many of you will consider joining us for what will be a fascinating discussion.

On Tuesday, October 20 the Boston Chapter will be hosting a free webinar that will be very valuable for IE's that are conducting a career search. Please see the details on page 4, which includes a link for registering for the event.

For the November presentation, now scheduled for Monday, November 23rd, Jason Krasowitz will discuss how Minitab, a statistical analysis software application, can be applied to help with quality control functions. This user-friendly application has an intuitive design that uses state-of-the art graphs, and more.

In November the Chapter will be conducting the annual election of Chapter Officers. If you would like to be involved with Chapter planning activities or would like to nominate a Chapter member for a position please drop me a note / email. I will pass on the information to the nomination committee.

Chapter 86 President
Tom Fiorella

Review of the September Meeting

By Carolyn Chen

The September meeting featured CAPSYS Corporation, a manufacturer of steel framed non-combustible modular buildings. The speaker was Robert Hasselbrook, Business Development Director. Modular systems offer time and cost advantages for constructing hotels, dormitories, multi-family buildings. His presentation showed examples of modular construction, and discussed how projects are planned. Project managers must consider project constraints, steps in the modular construction projects, strengths of modular construction – is it right for the design, coordinating onsite and offsite tasks, and preparing for the planning and approval process.

The slide presentation showed several examples of modular buildings in the U.S. and Europe, some built by CAPSYS and some built by other modular system designers. The buildings shown could combine round, curved, and squared elements, and the types of buildings included hotels, churches, and residential buildings. Examples of residential living spaces were a development of luxury, semi-detached two family homes, a university dormitory project, and attached family townhouses. Some of the CAPSYS projects in our area are the Atlantic Center in Brooklyn, a 32 family townhouse center, the Harborfront Hotel, a 30 unit luxury hotel in Greenport. The minimum size project that Capsys will sell is 20,000 sq. ft, and their construction method can build up to 12 stories.

Modular construction has its roots in the residential home market. In 1908, the first modern home catalog was published by retailers such as Sears, Roebuck & Co., to make housing a reality for people across the nation. Building components were delivered by railroad, complete with plans. There are several types of modular structures. (1) HUD code Manufactured Homes (a.k.a. house trailers). (2) Wood framed modular construction. This is suitable for 2 to 4 story buildings. (3) Steel Framed Non-combustible. This contains plumbing and electrical lines in the modules. Thus, it is very good for hotels and dormitories since the living space is contained in a single unit, and is usually replicated unit to unit. (Continued on page 3)

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When considering if Modular construction is right for a project, look at the advantages offered by the method. Standardize spatial dimensions such as multiple bedroom widths, standard baths, and kitchens. Align components and Systems such as heating, cooling, and plumbing. It is not absolutely necessary to cut all irregularities in the design, but if you can, there will be better productivity and the project costs decrease.

Project constraints may point towards modular construction as the most efficient solution. A university with a housing constraint needed 400 beds within 12 months, in time for the fall semester. If they had used conventional construction methods, the lead time would have been 18 months.

Once the modular construction (MC) looks like the right fit for the project, these are the 7 basic steps. Step 1: Verify that MC works for the project. It's advantageous for many repeated elements, without open form plans (in other words, minimize variability in the layout). Step 2: Specify design modules such as wall thickness and floor thickness. Step 3: Execute drawings of the mechanical plans, systems and structure and submit for approval. The Design team must show compliance with codes. Step 4: Create the manufacturing schedule, shop drawings and submittals. Document the process steps, order materials, and set the delivery schedule. Step 5: Ship product and erect the module. Modules are generally shipped via truck to the staging area with an oversized load escort. Arrange for cranes, and the foundation and structural components. Step 6: Complete module interconnections such as structural, mechanical / electrical / plumbing, sealing external walls, sealing the roof. These interconnections are the responsibility of the modular manufacturer or site contractors. Step 7: Complete on-site work.



Robert Hasselbrook

There are many strengths and advantages to Modular Construction projects in the areas of scheduling, cost, and quality. MC projects can be scheduled with greater precision and confidence since a large portion of the job is done by one group. MC construction methods lend themselves to assembly line conditions. This leads to more control over the schedule since a lot of work can be done indoors. Weather delays are avoided.

MC is very cost effective. The construction pace is faster (hence more savings and a faster return on investment). A 12 month projects vs. a 18 month project has advantages regarding finance services and interest. Commercial projects can start generating revenue faster. In one example, modules were delivered to a hotel site in January. The hotel was opened by Memorial Day.

The repeatability of MC projects lends itself to an assembly line environment. It is much easier to perform Quality Control in those circumstances. Having the product in one place improves access and consistency on the part of QC inspectors. There is better supervision. Details can be managed more closely. Sheet rock, ceiling, and floor preparation tasks can be completed in the factory. The off site work includes installing heating pipes, plumbing, HVAC and electrical boxes. Kitchen cabinets, tiles and appliances can also be installed at this time.

When the project is ready to move on-site, you will need a staging area within 1 mile from site that can store 40% of the modules. The site must be accessible by truck and flatbeds and must be relatively level to accommodate a crane.

Shipping constraints must be considered when moving the modules. Interstate Highways are most commonly used for transportation. Their maximum width is 16 feet, and the maximum height is 13.5 feet. Sometimes it is necessary to look at off highway land routes or water transport using barges.

Once the modules reach the site, there are three major phases to coordinate.

(1) Site work: clear, excavate, set up utilities. Pour concrete, footings and foundation walls. (2) Module delivery & Erection: set up the crane, complete the waterproofing. (3) Complete the building: exterior finishes, framing. Install the service connections to the plumbing, HVAC, fire protection and electric hookups that were prepared off-site.

Modular construction generates less waste and the construction activities have less impact on the neighborhood. There is less noise, dust and debris. A 10 month project will have most of the work done offsite, and spend only 10 weeks on site. MC's can qualify for LEED credits. This stands for Leadership in Energy & Environmental Design, monitored by the U.S. Green Building Council. Modular buildings are stronger because they are built to withstand transportation. (Continued on page 4)

Chapter 86 Membership Information

Long Island & Metro NY Chapter
Current Active Membership = 136

Welcome New Members to Chapter 86:
David N Ofori
Bryan T. Martella

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 to
www.iienet.org & click on Join IIE

Social Networking

Connect with IIE

Expand your network by connecting to IIE on these social media sites:

-  LinkedIn
-  Facebook
-  Twitter
-  IIE blogs

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CONFERENCE AND EXPO 2009**
October 26-29 St. Louis, Mo.

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To start the approval and the inspection process, the owner submits plans to the local jurisdiction. In New York State, plans are approved by the Department of State, which has jurisdiction over Modular Construction. The New York state building code applies all over the state except in cities with over 1 million people (such as New York City).

As Capsys' business has grown, they have optimized their operations in other ways. They used to have a fleet of 16 trailers. Now they need only four airlift trailers. They deliver the modules and raise the shipment up by 30 inches to place supports underneath. The trailer can then leave the site and go to the next delivery job. For more information and photos of Modular Construction projects, see www.capsyscorp.com or call Robert Hasselbrook at 718-403-0050.

Northeast Region October Webinar

Topic: Job Preparation - Targeting Industrial Engineers
(Lean-Sigma - Your Resume & Job Search)

Speaker: Joe DiNuzzo, "Lean Sigma Edge," a job board dedicated to Lean, Six Sigma and Operational Excellence

Date: Tuesday, October 20, Time: 6-7pm EDT

Learn how to change your resume, bio and introduce yourself with more impact. Utilize Lean, Six Sigma and other performance improvement ideas and critical phrases to draw in your audience and influence them to "pick you" over anyone else!



The Institute of Industrial Engineers, Boston Chapter is excited to present a free Webinar to our members. We are currently in the worst job market since the early 1980's, bringing incredible competition, and requiring an optimized approach to a career search. Joe DiNuzzo is a Lean Six Sigma consultant and founder of LeanSigmaEdge, a job board dedicated to Lean, Six Sigma, and Operational Excellence. Joe will share his insights into the current markets for Industrial Engineers

To register for this event online go to www2.gotomeeting.com/register/671406403

Top Management Strategies – About the Speakers



Rich Povak is the President of Air Techniques, Inc./AllPro Imaging, a leading manufacturer of dental, medical and military/security equipment located in Melville, NY Rich is a 14 year employee of Air Tech, having been hired as the Director of Manufacturing in 1995.

In 2001, Rich was promoted to Director of Operations and in 2004 headed the team to design and build a new 200,000 sq. ft. manufacturing facility in their current location. Rich is a graduate of New York Institute of Technology with bachelor degrees in mechanical and

industrial engineering. Rich's prior experience was in his own military based manufacturing business for 8 years and also with Aeroflex Laboratories, Inc. for 10 years prior, having achieved the position of Executive Vice President in one of their subsidiaries, Filtron Corp.

Founded in 1962, Air Techniques is a leading manufacturer of quality equipment for the dental, veterinary, medical, and security industries. The entire product line is created, developed and manufactured at company's 200,000 square foot facility in Melville. The headquarters houses the company's manufacturing, administrative, engineering, marketing, warehousing, shipping, and sales departments. The company also has a sales and distribution center on the west coast.

Air Techniques is a company dedicated to engineering high-quality dental products our customers trust. Our leading position rests on our commitment to technological innovation and manufacturing excellence. Our products are superior by design, professionally supported, and provide years of reliable lasting service to their users.

With a workforce of over 350 people, and a vertically integrated manufacturing plant, products are designed and manufactured using computer controlled fabricating and testing equipment. Our engineering staff designs our products for the Dental market. Our employees' dedication and collaboration have granted us multiple design awards and patents. We are proud to maintain the ISO-9001 and ISO13485 registration certification which reinforces our pledge to quality. (Continued on page 5)

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

Industrial Engineer

Fast-paced and rapidly growing manufacturing company in College Point, Queens is looking for a Process Engineer for an entry level position.
Company: **AFC Industries, Inc.**

INDUSTRIAL ENGINEER, PLANT MANAGEMENT

Well established, fast paced and growing metal badge manufacturing company based in White Plains, NY. We are looking for an engineer to join our team. Engineer will be responsible for facility layout, work flow, measuring work performance, cost control/analysis, quality control/management, inventory control/management, factory safety and physical plant maintenance.
Company: **Smith & Warren**

Fields Industrial Engineer

The Regional Industrial Engineer is responsible for developing and implementing technical projects that support the continuous improvement of three hard line distribution centers.
Company: **Toys R' Us**
Location: Wayne, NJ



Anne D. Shybunko-Moore, President and Owner, GSE Dynamics

Anne Shybunko-Moore is a member of the Board of Directors for the Long Island Forum for Technology (LIFT) and for Brookhaven Memorial Hospital. She also serves as a member of the Board of Directors for the Hauppauge Industrial Association (HIA) and as Co-Chair of its Manufacturing and Engineering Committee with a focus on supporting local manufacturers. She served a two-year term as president of the National Association of Women Business Owners, Long Island Chapter. Anne also served on Congressman Steve Israel's Small Business Advisory Council, and continues to remain active in addressing issues related to small businesses and those specific to the defense industry. She is the recipient of numerous awards including Enterprising Women Magazine's 2009 Woman of the Year, Suffolk Community College Foundation's Manufacturing Workforce Leadership Award for Excellence, and the ExecuLeadership Award for Business Leadership. She was named a March of Dimes Woman of

Distinction, as well as Business Advocate of the Year by the Long Island Women's Agenda. She was selected as one of the Top 50 Most Influential Women in Business in 2009 and 2005 and named one of Long Island's 40 Rising Stars under the age of 40 in 2006.

GSE Dynamics, Inc. is a full service engineering and defense manufacturing company engaged in the manufacture, assembly and testing of military mechanical and structural components and assemblies. Headquartered in Hauppauge, GSE Dynamics was founded by Daniel Shybunko, in 1971. In 2003, GSE expanded their capabilities by establishing a composite aircraft manufacturing company, GSE Southern Composites, located in Georgia. In 2005, GSE Composites was established as a second facility in Hauppauge, and has proven itself a leader in manufacturing composite requirements for the Navy. In 2007, the Defense Logistics Agency awarded GSE the prestigious Outstanding Readiness Support Award for a Woman-owned Business.

GSE has uniquely positioned itself as a total capability company within low cost structured program management and a company wide philosophy of quality, delivery and customer service. This company wide commitment to "Doing Business the Right Way" is evident in their proven track record of exceeding customer expectations every day.



Frank Robilotto is the Executive Vice President, General Manager of

Arkwin Industries. Frank has been serving in this capacity since joining Arkwin in 2003. Arkwin is located in Westbury, New York. Frank came to Arkwin from Ozone Industries where he served as president from 1996-2002. Ozone Industries manufactures hydraulic products including repair and overhaul capabilities serving military, commercial and civil aircraft markets.

Prior to his employment at Ozone Industries, Frank worked at Lucas Aerospace Power and Transmission Corporation in the capacity of General Manager from 1990-1996. Lucas Aerospace Power Transmission Corporation manufactured military and industrial power transmission and hydraulic products. In addition to these positions, Frank was employed at Computer Products, Stevens Arnold, Sippican Corporation, and Potomac Corporation. Frank has earned a BA from the College of Holy Cross, MBA from the State University of New York, Albany, NY, and is a licensed CPA.

Arkwin Industries Incorporated

An airport hanger owned by Kansas cities Arkansas City and Winfield became the first home for Arkwin Industries. The company settled in Westbury, New York, where it attracted the best engineering, technical and manufacturing talent available. Arkwin has grown from its humble beginnings to a modern, multi-faceted organization. The 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 the civil and military fixed-winged aircraft, helicopters, spacecraft, turbine engines and special applications. For more than 50 years, the Arkwin team has contributed to the success of many aircraft programs. Our products are on numerous commercial and military aircraft flying today. They include bootstrap reservoirs, valves, manifolds, actuators and swivels and a host of special purpose, custom-designed components.

Our people strive to provide the highest level of customer satisfaction. Arkwin has received many awards, in recognition of their efforts.

- U. S. Department of Defense-National Small Business Contractor of the year
- GE Aircraft Engines-Quality Supplier and Achievement of Excellence Award
- Northrop Corporation-Collier Award, B-2 Industry Team Member and Corporate Excellence Award
- United Technologies-Quality Award NASA Space Program
- Northrop Grumman Preferred Award for Superior and Sustained Excellence
- U. S. Small Business Administrator's Award for Excellence

