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September Meeting Announcement

Topic: **Modular Construction as a Design Alternative**
Speaker: Robert Hasselbrook, Business Development Director, Capsys Corp.
Date: Wednesday, September 16, 2009
Time: 6pm -Networking/Refreshments, 6:30pm – Presentation
Place: Air Techniques, Inc., Melville, NY
 (Directions to Air Techniques will be sent once your reservation is received)
See RSVP in Right Column

*A Lite buffet/dinner/refreshments will be provided - \$5
 This is a joint event with the Long Island & NY Chapters of IIE & SME*

Capsys is a premier modular manufacturer specializing in non-combustible buildings. Capsys modular units are an efficient and cost effective way to construct almost any kind of residence including student housing, hotels, townhouses, apartment buildings, affordable housing, supportive housing, and assisted living facilities.

Capsys Corp. located in the Brooklyn Navy Yard was formed in 1996 to design and build Nehemiah II, 700 homes for the Nehemiah Housing Development Fund Company. Capsys won the prestigious "Build New York" award as well as HUD's "Innovation in Housing" awards for its approach and execution of the Nehemiah II project. Since then it has produced over 2,000,000 square feet and almost 2,000 units of housing in a variety of types, from low rise to mid rise homes, multi-family and hotels.

The following will be discussed at this presentation:

- Using Modular Construction as an alternative to conventional construction
- The Basic Process of a Modular Construction Project
- The Strengths & Constraints of Modular Construction
- Integrating Off-Site & On-Site Tasks
- Environmental Considerations & Impact on the Neighborhood
- Building Codes & Approvals

**Long Island Metro NY
 Chapter 86
 Events Calendar**

Wed., Sept., 16, 2009

(see details on this page)
RSVP by Tues., Sept., 15 to Tom Fiorella @ tfior9651@msn.com or 516-214-5588. Please indicate: Name, Title, Company for yourself and each guest. For contact person please indicate: member affiliation (IIE / SME), phone, and/or email address.

Tues., Oct., 27, 2009

Topic: Top Management Strategies
Time: 5:30 PM Networking
 6:15 PM Dinner
 7:15 PM President's Welcome & Announcements
 7:30 PM Presentation
(Presentation is at no-cost)
Place: Panama Hatties - 872 Jericho Turnpike, Huntington Station, NY 11746
 This is a joint meeting with APICS & SME

Wed., Nov., 18, 2009

Topic: MiniTab (tentative)
Time: 6:00 PM Networking
 6:30 PM Presentation
Place: Air Techniques, Inc., Melville, NY

President's Message



In August the IIE Long Island Metro NY Chapter board along with a couple of members of the SME board got together to plan the programs and tours for the new season beginning with the September meeting and running through June, 2010. Also joining us was John Boyko past president of APICS.

We will kick-off with a presentation on modular construction provided by Robert Hasselbrook, Business Development Director, of Capsys Corp. A few members from SME were treated to a day tour of Capsys located by the Brooklyn Navy Yard in June. IIE board member Bob Schroter also attended and was fascinated with this new approach in construction. Please join us on September 16 to learn about this amazing construction alternative.

On October 27 the IIE & SME have been invited by APICS to attend a presentation on Top Management Strategies, which will be a panel discussion from a few of Long Island's Business executives. Some of you may remember the Top Management presentations that took place a number of years ago that were held at AIL in Deer Park, NY. These well attended programs were very well attended and extremely interesting.

Also on the planning horizon is a presentation on MiniTab, a Statistical Software application program, a joint holiday meeting / dinner with APICS, which will include a presentation on how to keep yourself prepared for seeking new job opportunities, tour of ITT, and other company tours that are under consideration. Please contact me if you have an idea for a presentation and/or tour.

In June the Chapter was treated to a tour of Wrap-N-Pack. Carolyn Chen has again written a fabulous review of the tour. Please read her review below.

Chapter 86 President
Tom Fiorella

Review of the June Tour

By Carolyn Chen

The June meeting took place at Wrap-N-Pack in Farmingdale. The tour host, Paul Pileggi, lead a tour of the warehouse, demonstrated some of the latest packaging aids and equipment, and discussed case studies where Wrap-N-Pack provided unique and money saving solutions to packaging problems.

Wrap-N-Pack sells commodity packaging products for industry (such as bubble wrap, peanuts, corrugated) but they also make custom products. There are future plans to expand their capacity to create a new manufacturing area to make custom boxes. They purchase materials in bulk, making commitments with mills and vendors to provide the best packaging materials to the region at competitive prices. Packaging vendors tend to serve a local market as opposed to shipping nationally. Most of the products are bulky yet light. It does not make sense to ship cross country.

Inventory turns very quickly, on the order of 5 turns per quarter. An open area above a warehouse office was pointed out as the place where packing chips ("peanuts") are stored during the day shift. They repeatedly fill this space then empty it out into trucks 7 times a day. In planning the warehouse layout, the most popular items are stored in dedicated pallet locations either centrally located, or by the bay door. Every storage location is tracked by computer. One person is dedicated to cycle counting to ensure that the database is accurate. This warehouse was re-designed with the help of National Storage and Conveyor Systems, Inc., run by IIE chapter members Dan Rupert and Roop Tawney. They saved on material costs by re-cycling the existing beams and incorporating them into the new rack layout and design.

One of the traditional packing materials are peanuts. There are several types of peanut materials. Some are made from recycled garbage bags, some are made from cornstarch. Peanuts have their niche for providing adequate protection at a low cost. However, they take up a lot of storage space, and many consumers have grown tired of trying to dispose of them.

(Continued on page 3)

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As an alternative, one of the latest industry trends is to use air pillows. Un-inflated pillows are easy to store on a roll and the bags are inflated as needed. Wrap-N-Pack sells the pillow inflation equipment, as well as many other machines that aid the package protection business.

Other types of equipment marketed by Wrap-N-Pack are paper punching machines, polyurethane foam making machines, stretch wrappers, case taping machines, and strapping machines. One new concept is an inflatable bubble wrap machine. This is a space saving set, since more wrap material can be stored on a roll when it is flat. The machine inflates one row of bubbles at a time. Unlike traditional bubble wrap, one pop will eventually drain the entire row. However, this material is stronger than standard bubble wrap.

Now that we know more about Long Island's supplier of premium packing supplies, a typical question for any receiver of goods, or internet shopper is, "how do I get rid of this packing material?" In their 30+ years of providing premium packaging to the industry, they have adopted cutting edge packaging technology and embraced Green business initiatives as well. It is known that newsprint can last for 40 years in a landfill, if isolated from oxygen. So Wrap-n-Pack is committed to identifying "greener" packaging product that will promote a healthy and sustainable environment. For example, the air pillow material will breakdown in about 2 years when microorganisms are introduced in the landfills. When the Green products are purchased, the company will donate money to American Forests, a non-profit organization that works to protect, restore and enhance the natural capital of trees and forests. Wrap-N-Pack can help companies reduce wastes and analyze the relationship between the cost of not being Green vs. Environmental Responsibility.

- There is no government legislation for how to be green.
- Are there environmentally friendly packaging alternatives?
- Can I be green and save money at the same time?

To demonstrate how they work with customers and suppliers to help cut down costs and storage requirements, consider how the price of petroleum has increased following Hurricane Katrina. This is the key raw material to make Stretch Wrap films. Customers asked Wrap-N-Pack, "How can you help us reduce costs of film?" Wrap-N-Pack partnered with mills to create a 7 layer film, which was stronger and thinner than its predecessor. This film can stretch to 300% of its "at rest" size, yet still has memory. In the spirit of Continuous Improvement, a 10 layer film is in development.

Going back to the basics, box taping sounds like a simple task. However, taping applications do require experience and technical knowledge. Wrap-N-Pack is one of 3M's Premier Distributors. There is a full time in-house sales representative who is an expert on 3M products and is dedicated to tape consulting. Based on your application, the proper tape will be selected.

The following is a list of special packaging applications where Wrap-N-Pack developed an innovative solution to:

- Call Center for Damage Control: Problem with protecting sensitive equipment during transport. Wrap-N-Pack suggested a Punch-a-bag. Striking the bag inflates it to form a protective wrap around the electronics.
- Gummy Vitamins: Problem keeping the products from melting in hot weather. They use insulated foam for temperature protection.
- Cutting Tool Company blows away competitors: Problem with cost & waste from packing chips. Switching from chips to air bags saved 35% in packaging costs.
- Printer's packaging costs: Problem with cost & storage. This customer saved 31% by switching to a stretch wrap that provided 300% more film per roll, since the material stretches 3 times more than the previous wrap.
- Electronics manufacturer: Problem with space. This customer switched from peanuts to a paper punching machine. Although peanuts saved 5 cents per bag, they took up tons of space. The paper punching machine can turn flat paper into protective padding.
- Korrvu makes a corrugate that is laminated to film. A fragile item, even heavy electronic equipment can be sandwiched between film on the top and bottom. The corrugate provides the framework to "suspend" the item inside a protective over carton.

Wrap-N-Pack has a Vendor Inventory Management Program, where they will take responsibility for managing their customer's packing supplies. Customers generally experience a reduction in overall shipping responsibility, reduction in emergency stock outs, and improve their cash flow. Delivery and customer service is a top priority. For goods stored at the Farmingdale location, Wrap-N-Pack has the infrastructure to ship for "In by 5" Next day Delivery, or "Bright N'Early" Same day delivery.

Another service that is a boom to small businesses is Wrap-N-Pack's Jiffy bag printing capability. A business logo or promotional material can be printed on Jiffy protective mailing bags. Other printers set a job minimum of 15,000 units, but Wrap-N-Pack will print as little as 3 cases.

For more information, see their web-site www.wrapnpack.com, or call Paul Pileggi at (631) 756-0440 x 1206.

Chapter 86 Membership Information

Long Island & Metro NY Chapter
Current Active Membership = 133

Welcome New Members to Chapter 86:

Lin Wang & Blazej Kesy

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

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
Current Job Posting includes:
Supply Chain Engineer
Company: Leviton
Manufacturing
Location: Melville, NY
(see the Chapter's Careers Page for details)

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