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**May Meeting Announcement**

**Wednesday, May 20, 2009**

**Tour of Sulzer Metco (US) Inc.  
(An example of Lean in Practice)**

*Host:* Ed Sottile Manager- Manufacturing Engineering

*Time:* **6:00pm - Light Dinner and networking  
6:30pm - Presentation**

*Place:* Westbury, NY

*Directions:* Directions to Sulzer Metco (US) Inc. will be sent once your reservation is received.

This is a joint event with APICS & SME (Society of Manufacturing Engineers) Meeting Fee: no charge, Complementary Lite buffet/dinner/refreshments will be provided by the host.

Reservations: Required - RSVP by Monday May 18, 2009 to Tom Fiorella 516 214 5588 or email at tfior9651@msn.com. Please indicate: Name, Organization/Company, Day Time Phone, Member Affiliation (IIE / SME)

**Sulzer Metco (US) Inc.** is a successful organization that traces its history back over 75 years and is part of Sulzer who this year is celebrating 175 years in business. They coat and enhance surfaces, produce materials and equipment for these purposes, and develop machining processes for special components. Their state of the art products, solutions and services are delivered through a global sales, customer support and manufacturing network. The Westbury plant is a manufacturing facility for thermal spray equipment and materials that is heavily into engineering new processes and equipment, and also contains a coating solutions lab.

Sulzer Metco focuses on industrial and technical markets such as Aerospace, Power Generation, Automotive, and other specialized industries. Their products and services include :

- Equipment and materials for thermal spray and thin film
- Coating solutions for thermal spray and thin film
- Engine components for industrial and aero turbines
- Friction linings
- Customer support services

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

**Wed., May 20, 2009**  
Tour of Sulzer Metco (US) Inc. – An example of Lean in Practice

**June, 2009**  
TBA

**Professional  
Events Calendar**

**AIAA - Long Island Section**

Thursday, May 21, 2009  
6pm Social Time, 6:30pm  
Dinner, 7:15pm Presentation

***Topic: Beyond The Black Box:  
The Forensics of Airplane  
Crashes***

Location: The 56th Fighter Group  
Restaurant, 7180 Republic  
Airport Grumman Lane  
off Route 110,  
East Farmingdale, NY 11735  
See details on the back page  
flyer and online at  
[www.aiaa.org/portal/index.cfm?GetComm=145](http://www.aiaa.org/portal/index.cfm?GetComm=145)

**APICS NYC-LI CHAPTER**

Tuesday - June 2, 2009 at 6pm

***Topic: Harnessing the Power of  
Change***

5:30 PM Networking  
6:15 PM Dinner  
7:15 PM President's Welcome &  
Announcements  
7:30 PM Presentation  
(Presentation is at no-cost)

Location: 872 Jericho Turnpike,  
Huntington Station, NY 11746

Please register at  
[www.apicsnyc-li.org](http://www.apicsnyc-li.org) or email  
[meetings@li-apics.org](mailto:meetings@li-apics.org)

## President's Message



So far the response to the Chapter's new eNewsletter has been very positive. I still urge anyone who is still receiving the printed version in the mail to consider providing your email address if you have one. As I mentioned last month this will enable the Chapter to provide funding for other events and some worthwhile causes.

Last month the feature speaker was Ted Bier of T.M. Bier & Associates, Inc. who provided excellent information in regards to how a company can save money on their energy bills and possibly obtain funding and tax deductions / rebates for energy initiatives. Please read the review below for the details of Ted's presentation.

This month's we will be joining APICS and SME on a tour of Sulzer Metco (US) Inc. in Westbury, NY. Some of you may have been with us when we last visited this company in January 2006. Sulzer Metco is very committed to LEAN and Six Sigma practices, which is driven from the top down. I am told that they have made additional strides in the past three years. I urge you to register for this event. This will be a great opportunity to network with members of APICS and SME and at the same time get some valuable insight on how a company can positively affect the bottom line.

Chapter 86 President

*Tom Fiorella*

## Review of the April Meeting

At the April meeting IIE Senior member Ted Bier of T.M. Bier & Associates, Inc. provided a timely presentation on Qualifying and Funding Real Green Projects for Industrial/Commercial Facilities. The focus of Ted's presentation included the types of energy projects, how to obtain funding, and Green Building certification through LEED (Leadership in Energy and Environmental Design) certification.

There are a number of projects that an organization can get involved with for an industrial / commercial facility. For one a building management system (BMS) along with system integration can be very effective in reducing energy consumption while sustaining a building's operation. The type of system that can be integrated include: HVAC equipment (air handling units, cooling towers, pumps, chillers, boilers, etc.), lighting controls, day lighting - photocells, security access control, CCTV, power monitoring and control, shading systems, micro turbines, photovoltaic - net metering - 6 to 8 year payback, wind - good for conservation, and Elevator controls. Some of the benefits of system integration are: Installation cost reductions along with shared infrastructure (wiring, controllers, workstations, devices, etc.), operational efficiencies - centralization, "single seat" access - faster response, less hardware, less training, and cross-checking. Some other benefits of a BMS are the ability to take performance measurements, verification of systems operations, and provide reporting.

Ted pointed out that there are a number of funding opportunities for energy projects including utility rebates from LIPA, National Grid, and NYSERDA (New York State Energy Research and Development Authority). Although funding from NYSERDA does not apply to Long Island. On a federal level, the Energy Policy Act of 2005 (EPACT) has also created some funding possibilities that includes commercial building immediate tax deductions for lighting and HVAC, which can also apply to rental properties (4 stories or above)

## Chapter 86 2009 Officers

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and tenant owned lease hold improvements. Traditional payback / return on Investment / Capital funds will typically net 8% to 15% reduction in "hard cost" operating expenses (e.g. utilities). Typically an additional 2% to 7% reduction in "soft costs" (e.g. HVAC equipment, maintenance, staff productivity, filters, belts) resulting in 5 to 12 year payback.



**Chapter 86 Membership Information**

Current Active Membership  
Long Island & Metro NY Chapter = 100

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](http://www.iienet.org) & click on Join IIE

Commercial facilities may also qualify for immediate building deductions. Deductions are based on improvements over ASHRAE 90.1 2001 (American Society of Heating, Refrigerating, and Air Conditioning Engineers) the energy code standard. The criteria to qualify are: energy efficient improvements must be depreciable assets, converts 39 year depreciation to current deduction, originally for installations completed in 2006 & 2007 (now extended thru 2013, which is retroactive for up to three years). Deduction amounts are the lesser of total cost or: \$1.80/sq.ft. whole building, \$0.60/sq.ft. individual systems for lighting, HVAC, and building envelope. An example is shown in Figure 1.

A couple of other financing alternatives include creating an internal energy funding pool by working with your company's CFO / Controller and through the American Recovery and Reinvestment Act of 2009, which is still in the works. Ted suggested that on Long Island you can take note of the latest developments by logging on to Congressman Steve Israel's Web site (<http://israel.house.gov/>) then click on the Energy & Economic Recovery button. You also may consider joining his energy task force.

The Green Building topic has been in the news more and more as of late. LEED certification has become a sought after label for property owners / operators. As a professional you can obtain certification as a LEED AP (Accredited Professional), CEM (Certified Energy Manager), and/or PE (Professional Engineer).

Along with Ted to answers question were: Jacob Goldman of Energy Tax Savers Inc. (516 364 2630) and Joe Deluca and Matthew LaPorte of Quinn & Feiner a HVAC service company. For further information you can visit the T.M. Bier & Associates, Inc. website at [www.tmba.com](http://www.tmba.com) or contact Ted at 516 674 3700.

**Example of Potential Tax Savings for a sample building**

	Immediate Tax Deduction
Whole Building	\$720,000
Individual System Approach	
Lighting	\$240,000
HVAC	\$240,000
Building Envelope	\$240,000

Assumptions: a) 400,000 ft<sup>2</sup> Building  
b) 40 Effective Federal / NYS tax rate yields \$288,000 NAT  
c) Consider what else your organization would need to do to earn \$288,000 after tax

Figure 1



## AIAA Section MEETING

Thursday, May 21, 2009

### Beyond The Black Box: The Forensics of Airplane Crashes



**Speaker: Dr. George Bibel**

*Professor of Mechanical Engineering, University of North Dakota*

**Location:** The 56th Fighter Group Restaurant  
7180 Republic Airport  
Grumman Lane off Route 110  
East Farmingdale, NY 11735



**Time:** 6:00 PM Social Time  
6:30 PM Dinner  
7:15 PM Presentation  
**Cost:** \$25 Members and Guests  
\$15 Students



George Bibel, an invited speaker to FAA Safety seminars, is a professor of mechanical engineering at the University of North Dakota. Dr. Bibel teaches traditional engineering courses and several innovated new courses featuring engineering disasters. He recently completed the Air Line Pilots Association's Advanced Accident Investigation Course and has written Beyond the Black Box: The Forensics of Airplane Crashes. The book attempts to teach high school science through unusual airplane accidents and crashes. Beyond the Black Box was favorably reviewed by "New Scientist, the New York Times and the Library Journal and was featured in the RAF News. Dr. Bibel also authored a related article appearing in the New York Times (Op-ed), International Herald Tribune and China Daily titled: Listen Up and Fly Right, in which he argued that airline passengers can save lives by heeding the emergency instructions of the crew. Dr. Bibel is working on a second book about train wrecks. He is a former NASA Summer Faculty Fellow and NASA researcher.

#### **RESERVATIONS REQUIRED:**

**RSVP BY May 19, 2009** (but after April 26)  
to: **Dave Paris**  
**(516) 458-8593**  
or **davidsparis@optonline.net**

Professor Bibel will show how crash investigators (forensic experts, scientists, and engineers) use physics, aerodynamics, and mechanical engineering to analyze factors such as impact, debris, loading, fire patterns, metallurgy, fracture, crash testing, and human tolerances to reconstruct an accident and determine the probable cause of the crash. The results of these investigations are used to formulate safety recommendations and are incorporated into aircraft design and operation to make commercial aviation as safe as possible.

Directions: Take the Northern State Parkway to Exit 40S, Route 110, or the LIE to Exit 49S, Route 110, or the Southern State Parkway to Exit 32N, also Route 110. At the traffic light at the south side of the Marriott Courtyard Hotel, turn East on Grumman Lane, which is about 3.9 miles south of the LIE and about 1.7 miles north of the Southern State Parkway. The restaurant is 0.2 miles ahead before the road turns right.