

AFE Association for **FACILITIES** **ENGINEERING**

To Learn, Lead, Listen and Influence

Summit Award 2004

128 Beltway ~ Chapter 37

Next Tour Tuesday, March 23rd, 2010

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NUVERA FUEL CELLS BILLERICA MANUFACTURING AND RESEARCH FACILITY

Nuvera was formed in April 2000 through the merger of Epyx Corporation, a wholly owned subsidiary of Arthur D. Little, Inc., of Cambridge, Massachusetts, and De Nora Fuel Cells, a wholly owned subsidiary of Gruppo De Nora of Milan, Italy. The merger brought together 10 years of fuel processor technology from Epyx and 10 years of fuel cell stack technology from De Nora, as well as a wealth of knowledge, know-how, and expertise in chemical reactor design, electrochemistry, and system integration.

Notable in the company's achievements is its recognition as being the first company in the world to successfully demonstrate a fuel cell system operating on gasoline in October 1997. Featured on *Good Morning America*, this ignited a firestorm of hydrogen development worldwide.

Today, Nuvera Fuel Cells is a global leader in the development and advancement of multi-fuel processing and fuel cell technology. With offices located in Italy and the USA, Nuvera is committed to advancing the commercialization of hydrogen fuel cell power modules for industrial vehicles and equipment and stationary applications, natural gas fuel cell power systems for cogeneration applications, and onboard gasoline fuel processors and fuel cell stacks for automotive applications.

Billerica Facility

In order to remain a leader in the development and commercialization of fuel cell and fuel processing technologies, Nuvera relies on its state of the art facility and infrastructure to enable its success. Our facility includes over 20,000 square feet of prototyping, pilot production, testing and laboratory facilities supporting the development of fuel cells, fuel processors and integrated systems.

Nuvera's test infrastructure accommodates a wide range of fuel cell sizes, from 10 watt single cells up to 100 kW stacks.

The following research facilities are available: chemical laboratory, fuel cell test stations, fuel processor test stations, automotive balance of plant test facility, micro reactor catalysis test facility, Instron compression testing machine, pilot plant combustion and fuel reforming modular test facility.

Nuvera's suite of modeling and technical analysis tools includes: process simulation, computational fluid dynamics, finite element stress analysis, numerical analysis/dynamic modeling and design packages.

Our tour will allow us to visit the lab areas and the manufacturing floor where the fuel cells and other products are built to order. Some of the products under development and produced at this site are designed for the electric forklift market.

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Speaker

David S. Allen, PE, Principal of Allen Consulting, LLC will be speaking about Building Performance: what it is, its key components, and how facility managers can stop sounding like Rodney Dangerfield and end the no-respect-syndrome from which some facility managers suffer. David's funny, sad & true talk is titled "Yours Might Be a Bad Building If".

David began his career over 30 years ago in the Plant Engineering department of a heavy industrial manufacturing plant for Ingersoll-Rand. He was soon promoted to Plant Engineer for a new plant where he oversaw the construction and operation of the plant, and co-developed one of the first computerized maintenance management systems (LUMAS) with the plant IT Manager. During the next 8 years he was credited with having the best run department in the plant, and his responsibilities expanded to managing manufacturing process improvement projects. In that work he learned to apply what are now called 6-sigma techniques, moved on to various roles for Ingersoll-Rand, NTN-Toyo and Becton- Dickinson leading manufacturing process engineering to improve and develop manufacturing processes. At Becton-Dickinson he took on leadership of product development project management and design engineering. Here his skills expanded to include best practices in product development management. In 2000, David returned to his roots in facilities work and founded Allen Consulting, bringing skills in product and process engineering to the world of building performance. His firm provides leadership in project management and engineering to make buildings

work, like the fine-tuned products they can be, for the businesses they shelter. His mission is to save the world from Bad Buildings.

For additional information, call or write to Allen Consulting at: 978-256-1962 answers@allen-engineering.net

Reservations

This tour is fully booked, we have a limit of 30 people, and we cannot accept any more reservations.

Tour Schedule

This tour will take place on **Tuesday, March 23rd, at 5:45PM**. Please enter at the first floor lobby and wait for instructions from an AFE Board member.

5:45 PM	Enter the building at the main entrance on 1 st floor
6:00 PM	Welcome & introductions on 2 nd floor
6:05 PM	Tour begins of lab & manufacturing space
7:15 PM	Dinner
7:45 PM	Guest speaker
8:15PM	Business meeting
8:30 PM	Adjourn

Location

NUVERA Building #1, 129 Concord Road, Billerica, MA 01821

Directions to the NUVERA Facility Tour Site

From Points West to 129 Concord Road, Building 1, Billerica

Take 90 East to 290 East. Take exit 26B on the left to merge onto 495 North. Take exit 35A to merge onto Route 3 South. Take exit 27 and merge onto Concord Road toward Billerica. Take a left at 129 Concord Road, also called Rivertech Park. End at Building 1.

From Points North to 129 Concord Road, Building 1, Billerica

Take Route 3 South to Exit 27 and merge onto Concord Road toward Billerica. Take a left at 129 Concord Road, also called Rivertech Park. End at Building 1.

From Points South to 129 Concord Road, Building 1, Billerica

Take 95 North to exit 32A-B, to Route 3 North. Take Exit 27 and merge onto Concord Road toward Billerica. Take a left at 129 Concord Road, also called Rivertech Park. End at Building 1.

AFE Membership

Those of you who have let your membership expire, or are not members and interesting in jointing one of the premier professional organizations related to facilities in this area, why not join as full members. The link below will allow you to renew on-line

<http://www.acteva.com/Booking.cfm?bevaaid=200722>

If you have any questions regarding membership, please contact either of our membership chairpersons: gary.laorenza@cbre.com herouxm@comcast.net

Sponsorship

Those businesses that are interested in supporting this organization and gain some new exposure, we have a package for you! A Newsletter sponsorship of \$200 will provide ten months of advertising in this newsletter, which reaches hundreds of facility professionals each month. To place your ad, please use the ACTEVA web link listed below. An example of the ad can be seen on page one and two of this newsletter.

<http://www.acteva.com/Booking.cfm?bevaaid=198191>

Employment Opportunity

CB Richard Ellis | Global Corporate Services has a fantastic opportunity for an experienced Assistant Chief Engineer to join a worldwide leader in Real Estate Services, and manage a critical facility for our most prestigious account. The right candidate must have a strong background as a critical facility engineer as well as previous supervisory experience. Contributions by our employees at all levels are noticed, and they are rewarded. We have an excellent record of promoting from within to fill Chief Engineer positions. In addition, your role will include developing Operating Engineers to become Assistant Chief Engineers. This position is located in Malden, MA; if this position is of interest please forward your resume to: gary.laorenza@cbre.com

If you have an employment opening and would like to get the word out to our large database of facility professionals, please send an e-mail to chapter37@afe.org. Include the job positing, the company and contact information.

Tour and Speaker Idea's for 2010

Please send us your ideas, contacts or clients if you would like to show case your job, company or projects in our 2010 AFE tour and speaker season. Our tour and meeting schedule is posted on the next page. We are experiencing high demand for tours, which are filling up early. Many facilities limit our tours to 30 people so please reserve your space early. We post tour details the first week of each month and then follow up with our newsletter later in the month closer to the tour date.

Chapter 37 Tour and Event Schedule

<u>DATE</u>	<u>EVENT</u>	<u>LOCATION</u>	<u>SPEAKER</u>
Tuesday, March 23 rd	NUVERA Fuel Cell Manufacturing Facility	129 Concord, Road Billerica	Building Performance Management – Allen Consulting
Wednesday, March 30 th	Chapter Board Meeting	TBD	6 to 8:30PM
Thursday, April 29 th	Anheuser-Busch Brewery <i>Behind the scenes mechanical tour</i>	221 Daniel Webster Hwy Merrimack, NH	Anheuser-Busch Plant Staff
Wednesday, May 5 th	Chapter Board Meeting	1075 Main St, Waltham	6 to 8:30PM
Tuesday, May 18 th	Tour of a Solar PV Project with NEXAMP	Osgood's Landing, North Andover	Technical Feasibility of a PV Installation
Wednesday, June 9 th	Board Meeting	1075 Main St, Waltham	6 to 8:30PM
Tuesday, June 22 nd Day Tour 10 AM to 2 PM	NH Waste Management Methane Plant UNH Co-Gen Facility	Rochester, NH; Durham, NH	Luncheon Speaker TBD
July Date TBD	Boston Harbor Boat Cruise	Boston Water Front	5 to 8 PM

Other Area Events

AEE New England

April 7, 2010, 4:30 - 8:30 PM, with dinner and presentation at 6:30 PM
 Topic: Emerging Technologies Speakers: multiple
 Location: Doubletree Guest Suites Hotel, 550 Winter St., Waltham, MA
 Registration: email to: info@aeenewengland.org
 Cost: \$40

Congratulations to Newly Certified Facility Professionals

The following facility professionals have recently completed AFE certifications and Chapter 37 wish to recognized their achievement.

Certified Plant Maintenance Manager

Mark Butler, Nypro, Inc.
 Harry Converse, MIT Lincoln Labs

Certified Plant Engineer

Richard Barry, Liberty Mutual Insurance