



ON THE BRIGHTSIDE

A WEEKLY REVIEW OF THE SERVICE ACTIVITIES OF THE ROTARY CLUB
VOTED #1 BULLETIN IN DISTRICT 7120 FOR 2004, 2005, 2006 AND NOW 2007 !



Our 50th Year

Erik F Szakos, Editor; Sherri Wood, Reporter

April 2, 2007

50th Anniversary of Service Above Self

Program – Sustainable Manufacturing

Ram Shrivastava introduced our speaker, Bob Bechtold of Harbec Plastics, who gave a very interesting slide presentation concerning sustainable manufacturing, which he defined as a program which meets current energy needs without negatively impacting others in the future. He started looking into these practices as a way to help the environment but quickly learned that in business, only the economics count.

Faced with rising energy costs in the 1990s and frequent energy problems like power outages and surges, which had cost the company over fifteen thousand dollars in damaged equipment in one month alone, Bechtold had to make a choice: run more efficiently or pack up and leave New York like many of his industrial neighbors. He chose to stay and in doing so he found a way to thrive. He hired Bruce Keeley of Energy Concepts Engineering and went to work re-vamping his entire facility.



The company began by addressing low-hanging fruit like replacing lights, purchasing more efficient motors, soft starts and inverter drives. Next they replaced their hydraulic injection-molding machines with all electric ones that not only used less energy but also eliminated excess heat, moisture and noise from the factory floor.

Harbec still had to address its core problem of replacing unreliable and expensive grid power with a reliable, high-quality and low emission source. Harbec decided to install a hybrid wind/CHP system in order to satisfy their main objectives of obtaining a primary source of power for the plant that had extremely low emissions, was energy efficient and economically feasible. For backup purposes, they kept their grid hook-up.

(Continued on page 2)

Buckland House LIVES!!

This will be our first look at the inside of the nearly renovated Buckland House. Any and all of you are invited—April 11th @ 5:15 PM.



The Juggernaut Rolls!

jug·ger·naut: n

An overwhelming, advancing force that crushes everything in its path:



Well, the District awarded Brighton Rotary 1st Place in it's annual Best Bulletin Contest again!. That make four consecutive Years!

Special Thanks to all of the Club's photographers and Reporters—You ROCK.

(Continued from page 1)



Harbec uses natural gas to run twenty-five micro turbines, which produce electricity for its manufacturing processes. The exhaust heat from the micro turbines is harnessed to heat exchangers that transfer the heat to water. The hot water is then used to heat the facility through radiant floor heating and a forced air system during the winter. In the summer, the hot water is directed through an absorption chiller, which cools water for air conditioning. Their CHP system produces less than 10% of the carbon dioxide of traditional sources of energy like coal and oil for the same amount of energy. The heating and cooling are bi-products of this process--bringing efficiency levels up to around 70%.

Harbec's system is a hybrid consisting of a 250 kW wind turbine and twenty-five 30 kW micro turbines for a total of 750 kW of generating capacity. The micro turbines run on natural gas and are dispatched in 30 kW increments. If a load increase of 30 kW is needed for more than 15 minutes they can turn on a new unit. If a decrement is expected, they shut one off. The micro turbines can be dispatched within three to five minutes. Harbec operates their facility five days a week with three shifts per day and a half day on Saturday for a total of five-and-a-half days a week or approximately 5,000 hours a year. On weekdays their load can range from 80 kW to 450 kW. On the weekends their load ranges from 75 kW to 80 kW. The parasitic load is around 70 kW to 75 kW, which is enough to meet the minimum thermal requirements of the facility – making the system a very nice fit. Beyond the minimum requirement, Harbec tries to maximize as much power as possible from wind. However, since New York does not authorize net metering for industrial users, on a windy weekend day, they can export as much as 250 kW of free power to the grid.

Other business decisions are also driven by environmental considerations--the vehicle fleet is 100% green, and rain water from the roof and parking lots runs into a retention pond used to operate their sprinkler system. The pond is stocked with fish, and employees are encouraged to cast a line on their lunch hours.

Bob made a plea that Club members do themselves and the environment a favor and replace incandescent bulbs at home with compact fluorescents as well as calling your energy supplier and asking to "Catch the Wind", so that some of your power will come from that source. Ram also suggested that the Club consider an environmental project--the distribution of these fluorescent bulbs in the community.

More to come from Ram later on this.



District Awards keep coming

Bill Moehle reported that he got a lot of great ideas at the District Assembly last weekend, and that the Club received three awards: First place (ofcourse) for the Bulletin; second place in Community Service for the Buckland House Project; and third place for Pancake Day.



Fine Time

Ernie Bullock's granddaughter came in first in the New England Championships for the breast stroke--at Harvard!



Future Olympic Champion!

Calendar of Events

Brighton Rotary

- April 9-** Chris Manaseri, Brighton Central Schools Superintendent
- April 11 (Wed)** - Sneak Peak at the newly renovated Buckland House @ 5:15PM
- April 16-** Freedom of Information Law (Bill Moehle)
- April 23** - Work Night at Foodlink
- May 7** - Early Broadway and pre-Broadway musical comedy
- May 21** - PH/ Citizen of the Year
- June** - LPGA: Signs up on 6/11 and down on 6/24; Rotary Luncheon at Locust Hill on 6/19



Rotary District 7120

- May 4-6** - Tri -District Conference @ Turning Stone

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The Four-Way Test

Of the things we think, say or do:

Is it the TRUTH?

Is it FAIR to all concerned?

**Will it build GOODWILL
and BETTER FRIENDSHIPS?**

Will it be BENEFICIAL to all concerned?



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ON THE BRIGHTSIDE

Rotary Club of Brighton, NY
P. O. Box 18141
Rochester, NY 14618



DONATE YOUR TRASH TO:

Rotary-Polio Eradication Foundation

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It's easy, Saves the Environment & Turns Trash into Cash for Polio Eradication.

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