



# the OUTRIGGER

R. Baker & Son Magazine  
*Disabled Veteran Owned and Operated*

October 2008

## R. BAKER & SON EFFORTS CONTRIBUTE TO FACILITY OF THE YEAR AWARD

R. Baker & Son contributed to a global pharmaceutical company winning the Facility of the Year Award 2008 in the category of Equipment Innovation at their New Jersey facility.

The Facility of the Year Awards program, sponsored by ISPE, Interphex, and Pharmaceutical Processing Magazine, recognizes state-of-the-art pharmaceutical manufacturing projects that utilize new and innovative technologies to enhance the delivery of a quality project, as well as reduce the cost of producing high-quality medicines.

The expansion project began by the Fortune 500 pharmaceutical company awarding R. Baker and Son All Industrial Services (R. Baker & Son) the interior demolition, removal and equipment salvage contract work. The goal of this phase of the project was to perform a total interior gut out while leaving the structural members in place. This required an immense amount of preparation, coordination and attention to safety. After making sure all environmental concerns were addressed properly and that utilities had been disconnected or relocated, equipment salvage was commenced. R. Baker & Son was able to help the client offset some of the costs of the project through their expertise in process equipment sales and salvage. Once the salvaged equipment was removed and sold, the remaining interior demolition was conducted. This included demolition of all CMU walls, removal of elevator and stairwells, removal of sheet rock walls and drop ceiling and all remaining interior non load bearing structures. In addition, a significant portion of the first floor slab was removed along with all equipment pads on the penthouse floor. *continued...*

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*inside this issue...*

facility of the year award -  
osha carbon monoxide poisoning - quality awards  
haskell holiday - modular construction

## R. Baker & Son Efforts Contribute to FOYA

*continued from page 1-*

After interior demolition services were completed, R. Baker & Son repaired all floor openings as per specifications which included new rebar and concrete. The client then performed the necessary pre-construction tasks in preparation to receive the new equipment for the expansion project.

R. Baker & Son was then called back in to perform the next phase of work which was the reinstallation of the new equipment. R Baker & Son was intricately involved with the detail development of the scope of work with vendor equipment shop drawings (many in German). The scope of work was to receive, rig, set and assemble/install all of the process equipment for the project. This included the new Lyophilizer, Automated fill line, process chiller, formulation isolation equipment, process air handlers, Fluid beds MP3 and MP4. Control cabinets, HMIs, various isolation chambers and complete assembly of all shipped parts from the factory acceptance tests. The shipped parts were stored in a clean area and boxes of parts numbered in the hundreds. Laser precision was needed to set equipment due to tight tolerances. R. Baker and Son performed any necessary shimming, pressure testing, mounting, leveling, and daily protection of the new epoxy floors which could not be damaged.

R. Baker & Son was also tasked with assisting with commissioning and startup of the newly installed equipment. The startup process was completed with ease due to all the upfront technical planning and the expert installation performed by the R. Baker & Son re-installation crews.

Despite the complexity of rigging and re-installing this delicate and very expensive process equipment, R. Baker & Son was able to safely and efficiently complete the project without damage to any of the equipment. The project was also on-schedule and within budget.



Congratulations to R. Baker & Son's most recent Quality Award winner:

### Kris Murphy

The Award Program has been established to recognize employees for their outstanding achievements in safety, project execution and customer satisfaction. Someone who has gone above and beyond the call of duty. The quarterly winner will receive a recognition quality pin, a \$100 dollar bill, a letter home to their family on their achievement and recognition in the company newsletter.



## A Haskell Holiday 2008 -

The summer season's pinnacle of thoroughbred racing took place at the \$1 million Haskell Invitational at Monmouth Park Racetrack in Oceanport, NJ, and as always, R. Baker and Son was there in grand style.

Guests enjoyed extraordinary weather, great company, and plenty of good food and drink in R. Baker's trackside VIP tent. Before and after each race, horses were paraded by the tent, so close you could reach out and touch them. Bets were placed at a private betting stand.

This year's favorite, Kentucky Derby and Preakness winner Big Brown, took the Haskell in a close finish. Whether or not guests were lucky enough to win, place, or show, everyone went home a winner, with great memories of a fantastic time at the Haskell.



## Pre-Engineered Modular Construction

The concept of pre-manufactured construction has been around for quite some time, and its use in the pharmaceutical and biotech industry is becoming increasingly common. R. Baker & Son has been instrumental in the construction of a number of these production facilities, and is currently involved in a large modular project in northern New Jersey.

Modular pharmaceutical and biotech production facilities are comprised of modules that are pre-engineered, constructed, and test-run under controlled conditions, while synchronized on-site construction of the plant "skeleton" takes place in parallel.

Key in the construction of these facilities is the coordination between module fabrication and the construction of the building. In order to receive and connect to the modules, placement of the structure's process and utility systems must be exact, and the delicate task of rigging the modules into place must be precisely coordinated and perfectly controlled.

R. Baker & Son has been a key player in the coordination and implementation of a number of modular pharmaceutical facilities. While the rigging of modules that are precisely fit is a relatively smooth process, complications and challenges due to inexact interface are common. This is why a first-rate rigging plan and the wisdom of a company and crew experienced in this area, such as R. Baker & Son – are vital to these projects.



## OSHA QUICK CARD

### Carbon Monoxide Poisoning

Carbon monoxide (CO) is a colorless, odorless, toxic gas which interferes with the oxygen-carrying capacity of blood. CO is non-irritating and can overcome persons without warning. Many people die from CO poisoning, usually while using gasoline powered tools and generators in buildings or semi-enclosed spaces without adequate ventilation.

#### Effects of CO Poisoning -

\*Severe carbon monoxide poisoning causes neurological damage, illness, coma and death.

#### Symptoms of CO exposure -

\*Headaches, dizziness and drowsiness.

\*Nausea, vomiting, tightness across the chest.

#### Some Sources of Exposure -

\*Portable generators/generators in buildings.

\*Concrete cutting saws, compressors.

\*Power trowels, floor buffers, space heaters.

\*Welding, gas powered pumps.

#### Preventing CO Exposure -

\*Never use a generator indoors or in enclosed or partially enclosed spaces such as garages, crawl spaces, and basements.

\*Opening windows and doors in an enclosed space may prevent CO buildup.

\*Make sure the generator has 3-4 feet of clear space on all sides and above it to ensure adequate ventilation.

\*Do not use a generator outdoors if placed near doors, windows or vents which could allow CO to enter and build up in occupied

spaces.

\*When using space heaters and stoves ensure that they are in good working order to reduce CO buildup, and never use in enclosed spaces or indoors.

\*Consider using tools powered by electricity or compressed air, if available. If you experience symptoms of CO poisoning get to fresh air right away and seek immediate medical attention.

For more complete information visit the osha web site or call osha:  
www.osha.gov  
800-321-OSHA

