



## Lipten Sign Two New Sales Representatives

Wixom, MI — Lipten is please to announce two new sales Representatives. The first is Thermal Power Products, Inc. headed by Paul Reiter. Paul will represent Lipten in Ohio, West Virginia and western Pennsylvania. You can read more about Paul in the Spotlight section.

The second is Bemark Associates, Inc., headed by Mark Macknis. Mark, along with Bernie Macknis, Joel Dean and Scott Macknis, will represent Lipten in the eastern seaboard states of Maryland, Delaware, New Jersey and eastern Pennsylvania.



### Did you know ...

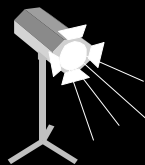
*The high cost of dragging your feet ?*

Imagine if you will, taking a \$100 bill and putting a match to it. Then, two hours later do it again. And again. And again, every two hours, every day for a year. That's \$480,000 up in smoke in just one year. Why would anyone do such a thing? The sad truth is that they do. Many companies, in their zeal to cut cost, kill capital projects like boiler replacements or upgrades. Yet those aged boilers and burners cost them hundreds every day in excess fuel cost.

This example is a true case. A factory that could save \$480,000 a year in operating costs. Sure there is a capital expenditure, but the payback is about *two years!* The third year and every year after, nearly *half a million dollars* goes right back to the bottom line! Not to mention reduced NOx and CO emissions. They could save money and save the environment. But, corporate won't allocate the funds. Like so many companies, the focus is on the short-term results, not long-term gains. It seems that the bean counters have forgotten that to have beans to count, you need to take care of the bean plants. You need to replace the old plants that don't produce. You need to spend money for new plants and they take time to grow. But, in the end, you end up with more beans then you ever would have had with the old plants.

Let's face it; fuel costs are not going down. Steel prices keep rising. That forty-year-old equipment is going to cost more and more to keep in operation. The facility in the example could have put almost half a million dollars in their pocket this year. They are on track to drop another half million this year because they won't act. Maybe they can afford it. It must be nice to be rich! Are you that rich, or can you stand to save hundreds of dollars a day? If so, I know a company that can help...

*Contributed by Frank Hrlac, PE, MBA*



Spotlight On ...

## Paul Reiter



Paul is president of Thermal Power Products, Inc., (TPP) a manufacturers' representative firm serving the utility, industrial and institutional marketplace by offering products and services associated with the generation of steam for power, process and heating applications. As

announced to the left, TPP has just formally become a sales representative for Lipten, though both companies have collaborated on past projects, most notable the supply of two new boilers for Wheeling Pittsburgh Steel Corporation.

TPP has been in business for 15 years under Paul's leadership, covering a sales territory consisting of the western half of Pennsylvania, eastern part of Ohio, West Virginia and several western counties of Maryland. Paul started the company in 1990 after many years working for three major boiler manufacturers.

### Employment History

#### **Babcock & Wilcox**

Proposal Engineer and Field Service Engineer

#### **Foster Wheeler**

Regional Service Manager and District Sales Manager

#### **Zurn Energy**

Sales Manager

### Education / Training

#### **Bachelor of Science in Mechanical Engineering**

Lafayette College

#### **Professional Engineer - State of Ohio**

### Personal

Paul has two married daughters, who together have made him a grandfather five times. Besides playing golf and tennis, Paul spends a good part of his leisure time on home improvement projects.



# New CEMS for City of Flint Facility

by Jim Marshall, Regional Manager

Flint, Michigan – to meet the USEPA 40 CFR 503 standards for Sewage Incineration, the City of Flint Water Pollution Control Facility contracted Lipten Company as the Design-Builder to engineer, procure and install two (2) Continuous Emission Monitoring Systems (CEMS) to measure the amount of Total Hydrocarbon Content (THC) corrected for Oxygen and



*New CEMS equipment enclosure*

Water content. This facility operates four (4) multiple hearth sewage sludge incinerators, exhausting through a common single stack with two (2) flues. Incinerators 1 & 2 share one flue, while Incinerators 3 & 4 share the other flue. The dual CEM systems are



*Rack mounted analyzers*

mounted outdoors within a HVAC conditioned self contained modular shelter.

Each CEM consists of a probe mounted in the exhaust flow path within the flue; a pre-insulated heated tube bundle for temperature conditioning of the

extracted gas sample & calibration path for the probe; control valves for sample extraction routing or calibration; a PLC to sequence sampling, calibration, data acquisition, Alarm-faults; a Flame Ionization Detector (FID) for THC measurement; an Oxygen Analyzer for compensation of sample; and a Data Acquisition System (DAS) PC to archive, report, print and provide for operator interface.

Very strict guidelines are provided by the USEPA and the Michigan Department of Environmental Quality relating to insuring the analyzers are calibrated on a consistent basis, the reported data format, the duration of data archiving and the overall functionality of the CEM systems. To insure this criterion is met, each CEM has the capability of Automatic



*Flue gas probe on stack*

Calibration, Automatic Report Generation & printing, Automatic Data Archiving and Automatic Fault Diagnostics. To further enhance the system, a remote DAS PC was included to monitor and allow remote calibrations communicating to the main CEM PC over fiber optics network.

Lipten would like to thank the following organizations for their assistance in making this a successful project:

- Environmental Concerns, Inc.
- Platinum Mechanical, Inc.
- Weinstein Electric
- Ameri-Construction & Concrete
- Derenzo & Associates



# LIPTEN COMPANY

28054 Center Oaks Ct.  
Wixom, MI 48393

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automate the existing over fire air dampers. The over fire air lances and coal feeder refractory throats were repaired, then, Lipten de-scaled and high-pressure water washed the furnace tubes, generation tubes and air heater inlet and outlet breeching to improve overall boiler efficiencies. Lipten's engineering scope included demolition and installation drawings, along with equipment design drawings. Lipten provided engineering services to integrate the new combustion controls for all four boilers into a Bailey Infi-90 DCS. The Bailey Infi-90 DCS controls the boilers and various other parts of the coal and ash handling systems.

The following company participated in the success of this project:

Detroit Stoker Company  
Process Equipment Inc.  
Engineered Solutions Corp.  
MBB Power Services  
The State Group  
United Conveyor Corp.  
Fenton Systems



## LIPTEN

Hands-on EPC Energy Solutions

### Corporate Office

28054 Center Oaks Court, Wixom, MI 48393  
Jim Marshall, Regional Operations Manger (Midwest)  
Phone (800) 860-0790 Fax (248) 374-8906  
Lipten@lipten.com

### Eastern Office

98 Guinea Road, Monroe, CT 06468  
Glen Altpfart, Regional Operations Manager  
Phone (203) 452-7117 Fax (203) 452-7017  
galtpfart@lipten.com

### Lipten Energy Canada, Inc.

561 Duncan Ave., Greenfield Park, QC J4V 1E4  
Paul Henry, Regional Operations Manager  
Phone (450) 676-3222 Fax (450) 676-5997  
phenry@lipten.com

### Local Sales Representatives

#### ***THERMAL POWER PRODUCTS, INC.***

12300 Perry Highway, Wexford, PA 15090  
Paul Reiter  
Phone (724) 935-6900 Fax (724) 935-8199  
preiter@nauticom.net

#### ***BEMARK ASSOCIATES, INC.***

700-A Larkin Street  
New Castle, DE 19720  
Mark Macknis  
Phone (302) 322-7900 Fax (302) 322-1352  
mark@bemark.us

Find us on the web at [www.lipten.com](http://www.lipten.com)

