

What's happening at Kemco?

Featured Project - Laundry

Meet Kemco

## **Know Your Impact** *Wastewater and the Environment*

*With World Water Day being this week, we thought it would be a good time to share our article "Know Your Impact". This article raises awareness to the impact of industrial wastewater on our environment and how we can lessen that impact by reducing our energy and water waste.*

We are all thankful for the little things that make our lives easier and more efficient, like ready-to-eat meals when we don't want to cook, or clean sheets when crawling into a hotel bed after a long flight. The industries that provide these wonderful, yet sometimes taken for granted luxuries, are Food Processing and Commercial Laundries. While these industries make our lives easier, they also produce a significant amount of wastewater. This wastewater is monitored by Publicly Owned Treatment Works (POTW) and if the POTW doesn't like what you're putting back into the environment, there can be surcharges, fines and even shutdowns.



*Wastewater Treatment Plant - Clearwater, FL*

The food and laundry industries have processes that generate high-strength wastewater. Since POTW's are usually designed to treat domestic sewage and not industrial wastewater, the concentrations of chemicals and contaminants in the industrial wastewater can affect the ability of the treatment plants to effectively treat all the wastewater coming to them.

When evaluating your plant's discharge of industrial wastewater, keep in mind that guidelines vary across municipalities. Some permits have established guidelines and others are provisional, or temporary, and use an analysis of a period of time to establish guidelines or they may have high limits on surcharges, while many have no limits. In short, knowing and understanding your industrial wastewater discharge permits is important to the sustainability of your business.

Now that you know your guidelines, let's work further on your plant's sustainability. Industrial wastewater treatment covers the methods used to treat wastewater that is produced as a by-product of industrial or commercial activities. After treatment, the treated wastewater, or effluent, may be reused or released to a sanitary sewer or POTW. The mass flow, temperature, and strength (concentration) of industrial wastewater streams directly impact the ability of the POTW to process and achieve final disposition to surface water or reuse streams.

*(continued on page 2)*

# Know Your Impact

(continued from page 1)

Concentrated constituents that are typically monitored closely due to their impact are; Dissolved Oxygen and Biochemical Oxygen Demand (BOD), pH, Total Suspended Solids (TSS), conductivity, alkalinity, and fecal coliform. BOD and Suspended Solids are typical constituents monitored by the POTW and are used as a basis to establish surcharges. Other constituents like heavy metals and Fats, Oils and Greases (FOG's) are often not acceptable and can result in fines or shutdowns.

A thorough analysis of the individual wastewater of a plant's operation will ensure that the right system is designed and that it will be effective in removing the "waste" from your wastewater. There are several system designs for treating wastewater, each with key benefits dependent on the type of wastewater that needs to be treated. Kemco has over 30 years in wastewater treatment and reuse experience, with systems such as the DAF, RO, CMF and the state-of-the-art CMF-RO combination, we will ensure that you get the best system to treat your wastewater efficiently and safely for reuse in your plant and for sewer into the environment.

## Meet Kemco

### **Bernie Pender**

*Title: Project Engineer*

*Time at Kemco: 4 years*

**Favorite Spare Time Activity:**

Reading

**Last Movie Watched:**

Aliens

**Who would you want to be if you could be a Superhero or Fictional Character?:** Indiana Jones

**One Bucket List Item:**

See the Northern Lights



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# Featured Project

## Commercial Laundry - New Brunswick

**Start Up Date:** Summer 2018

### The Solutions

#### Soften Incoming Water

City freshwater contains high levels of calcium and magnesium that can negatively affect the performance of equipment in laundry operations. Installing a water softener removes the ions from the freshwater and makes it soft enough for downstream equipment usage, improving effectiveness in cleaning processes and minimizing fouling, scaling, thermal energy loss and damage to downstream equipment.

#### Heat Recovery

This New Brunswick laundry was discharging hot wastewater directly into the sewer system, which means a total loss of the heat energy from the wastewater. Installing a Heat Reclaimer System uses that wastewater's heat energy to preheat incoming freshwater. This reduces the additional energy needed to reach desired water temperatures and results in **\$101,400** annual fuel avoidance.

With three boiler systems delivering 400 HP, the laundry produces a significant amount of exhaust heat that is discharged out of the stack. With the Stack Economizer in use, the flue gas energy is captured and used to preheat incoming freshwater. This gives the laundry an additional resource to capture wasted heat and reuse back into process, translating into an annual fuel avoidance savings of **\$25,688**.

Adding the Steam Heater to this system makes the process even more efficient. Condensate from operations is trapped in the steam heater and passed onto the boiler feedwater system, preserving valuable heat energy. As a result, less energy is required for reaching desired water temperatures.

### The Results

Kemco's heat recovery solution for this laundry is projected to save the company at least **\$127,088** annually. This means a rapid return on investment and given the long-lasting Kemco quality, long-term savings.

# Kemco Announcements

Continuing our strong presence in the meat processing industry, Kemco exhibited at **The International Production & Processing Expo (IPPE)** in late January. IPPE is the world's largest annual poultry, meat and feed industry event of its kind. VP of Sales & Marketing **David Lemen**, along with Regional Sales Managers **John O'Hehir** and **Jim Gorrell**, shared the benefits of Kemco's extensive catalog of water heating, heat recovery and wastewater recycle/reuse solutions for the meat processing industry.



President, **Tom Vanden Heuvel** and Regional Sales Manager, **Jim Gorrell** exhibited at the **Independent Textile Rental Association (ITRA) Mid-Year Conference and Supplier Exhibits**. The 3-day event in New Orleans, LA was an excellent assembling of speaker sessions and networking opportunities for Kemco as well an opportunity to share our water and energy solutions in the laundry industry.

Continuing to expand our reach, VP of Sales & Marketing, **David Lemen**, attended the **TRSA Production Summit & Plant Tour** in Anaheim, CA. This was a great opportunity for Kemco to network as well as see firsthand, the latest developments and updates in laundry facility operations.

President, **Tom Vanden Heuvel** joined Regional Sales Managers, **Bill Gallagher**, **Jim Gorrell** and **Stephen Stewart** in Denver, CO at **The Precast Show**. This show is the largest precast-specific trade show in North America and welcomes the industry's most important suppliers and foremost equipment experts.



The **AMTA Membrane Technology Conference** is an important opportunity for Kemco to learn about the latest developments in membrane technology as well as share their latest innovations. President, **Tom Vanden Heuvel** and Director of Operational Excellence, **Larry Jessup**, attended this year's conference in West Palm Beach, FL.

## Meet Kemco

### **Michael Gesualdo**

*Title: Asst. Service Manager*

*Time at Kemco: 19 years*

**Favorite Sports Team:**  
Tampa Bay Buccaneers

**Favorite Spare Time Activity:** Beaching, Boating

**Last Movie Watched:**  
Donnie Brasco

**One Bucket List Item:** Visit Italy



## Celebrating Anniversaries

Thank you to our dedicated employees for your continued hard work and contributions to Kemco's success!

Rodi Akalan	1 year
John Sutton	2 years
Nate Dewing	3 years
Denis Shalin	3 years
Eisa Sawyer	4 years
Ann Elder	5 years
Nik Vlacic	7 years
Alci Garcia	11 years
Mike Church	12 years
John O'Hehir	15 years
Julio Lopez	16 years
Richard Ruffi	17 years
David Ovnic	18 years
Kalin Kirov	21 years
Hai Nguyen	32 years

## New Hires

We want to welcome our new Kemco team members!

Tyler O'Grady	Engineering
Stephen Stewart	Sales
Brian Martin	Engineering
Al Mitrovic	Engineering

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## Upcoming Events

### March 21 - March 22, Arlington, VA

The **TRSA Leadership & Legislative Conference** is an excellent opportunity for Kemco to stay up-to-date on developments in regulatory laws and laundry operation management. President, **Tom Vanden Heuvel** will be attending the conference in Arlington, VA.

### April 8 - April 11, Bonita Springs, FL

The **Food Automation & Manufacturing Conference** in Bonita Springs, FL is a key event that brings food and beverage processors and suppliers together to gain information on the latest trends and technologies. VP of Sales & Marketing, **David Lemen** will be at the conference sharing Kemco's innovative water & energy solutions for the food & beverage industry, as well as attending educational sessions in manufacturing, automation, sustainability and food safety.

### May 2 - May 5, Rio Mar, Puerto Rico

The **TCATA Annual Conference** is a highly productive networking opportunity for top executives in the commercial laundry industry and its suppliers. President, **Tom Vanden Heuvel** will be attending the conference in Rio Mar, Puerto Rico. We are looking forward to a week of exciting events and conversations with our partners in the commercial laundry industry.

### June 5 - June 7, Minneapolis, MN

VP of Wastewater Systems, **Gerry Van Gils** and our Midwest Regional Sales Manager, **John Sutton** will be exhibiting at the **Membrane Technology Forum** in Minneapolis, MN. This premier live event brings experts from the membrane technology industry together and is an excellent opportunity to learn more about current trends in the industry. Gerry will be presenting "**Membranes for High-Strength Wastes in Dairy Plants**", June 5th at 4:30 p.m.