

# The Keynote Address

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## Keystone Laboratories, Inc.

is a member of the  
American Council of  
Independent  
Laboratories, Inc.

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*For the clients of Keystone Laboratories, Inc.*

## ICP/MS

Keystone recently purchased an **Inductively Coupled Plasma-Mass Spectrometer (ICP-MS)** from Perkin Elmer. Inductively Coupled Plasma Mass Spectroscopy was developed in the late 1980's. The ICP-MS can measure 82 elements on the periodic table with the broad linear working range of a traditional ICP and the exceptional detection limits of an AA.

Chemists **Ryan VanderVelden** and **Staci Arnold** attended training for the ICP-MS in Oak Brook, IL at the end of January. They share that it was very informational and included "hands on" lab work with the instrument. The only downside was driving back home in a snowstorm!

The instrument (pictured below) is completely installed and Ryan and Staci are anxious to get everything up and running and start analyzing samples, especially with all the extra landfill samples this year. Keystone will be certified for EPA methods 200.8 and 6020. Certification is scheduled to be completed later this spring.



## OUR MISSION

To enhance the quality of life by:

Providing outstanding service to meet our customers' needs with a full range of environmental testing.

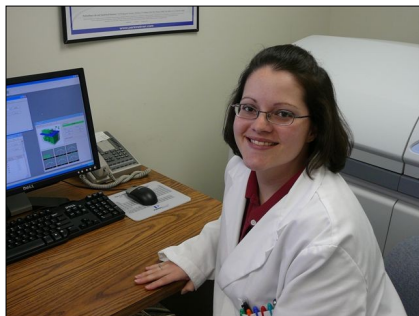
Maintaining a congenial and productive environment where our employees can work and grow both personally and professionally.

Sharing our talents and resources within our community to make it a better place to live.

# Promotions

The following four Keystone employees were promoted during the first quarter.

## Staci Arnold

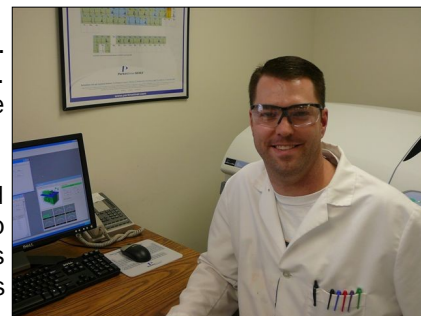


In January 2008, **Staci Arnold** was promoted from Chemist I to Chemist II in the Newton, Iowa location. Staci has been with Keystone for 5 years and works in the Inorganics Department. Staci runs multiple analyses—such as the Mercury Analyzer/GFAA, probe ammonia, and various wet chemistry tests as needed for the Inorganics Department.

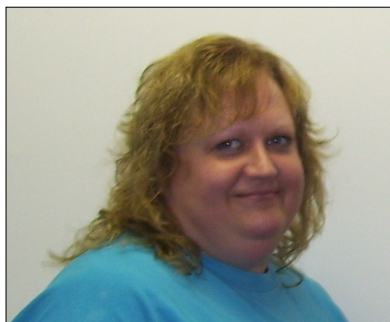
## Ryan Vandervelden

In January 2008, **Ryan Vandervelden** was promoted from Chemist II to Senior Chemist. Ryan also works in the Inorganics Department and has been with Keystone for 10 years. Ryan's main analyses include metals on ICP but he performs other analyses for the Inorganic Department.

In addition to their current work load, Ryan and Staci are working on method development for the new ICP-MS instrumentation. The ICP-MS will be instrumental (no pun intended) for Keystone to complete the expected volume of landfill analyses this year. Staci and Ryan completed a week long ICP-MS training program in Atlanta this quarter.



## Trisha Olson



**Trisha Olson** was promoted from Lab Tech I to Lab Tech II in our Waterloo, IA location. Trisha performs all analyses at the Waterloo location in addition to helping with login and phone calls. Trisha has been with Keystone for three years and is an asset to Keystone's Waterloo operation.

## Lynzey Gallagher

**Lynzey Gallagher** was hired September 17, 2007 at Keystone Laboratories Newton location to work part-time as a Lab Aid. After assisting in the Shipping/Receiving, Sample Control, and Glassware areas, Lynzey was promoted to the Inorganics Department where she works as a Lab Tech. Her main analyses include TSS, TDS, TSETS, PHs, VS, VSS, and Percent Solids.

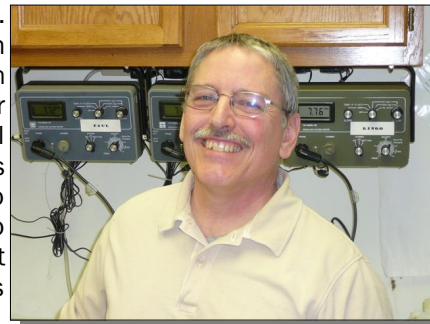


**Congratulations to all of you!**

## Staff Profiles

### Jim Pryke

**Jim Pryke** works at the Newton location of Keystone Laboratories as a Senior Lab Tech. He attended Iowa State University and FDU. His previous employment was with Custom Kitchen Designs. Jim has been working at Keystone since August 2001. His main duties include running BOD, CBOD, and Bacteria samples. He also takes samples for Wastewater and Drinking Water analyses. Jim is married to **Jennifer**, who is a Special Education teacher. The Prykes have three children: A daughter, **Megan** (who works as a paralegal and a waitress)—a son, **Rob** (2nd Class Petty Officer USN) who is married to Brandi—and a daughter, **Katy** (a RN) who is married to Steve. Jim and Jennifer also have two grand-children Allison and Rylie. The Prykes have two pets, a dog and a cat and their favorite vacation spot is Lake Winnipeg, Canada. Jim's "off-work" interests include fine woodworking, mechanics, and any home improvement or repair project.



### Loreen Johnson



**Loreen Johnson** works at the Newton location of Keystone Laboratories as a Lab Technician. She graduated from Grand Rapids, MN High School and her previous employer was Pyramid, Inc. in Newton. Loreen has been working at Keystone since May 2002, and shares—"at first, back when I started, my job was very over-whelming. Almost six years later, I feel good about my job, and comfortable with my surroundings." Loreen is married to her best friend, her husband Kevin. She has a twin sister, Doreen, who lives in Northern Minnesota. She also has a younger sister and family that live around Marshalltown. Her father and step-mom live in St. Paul, MN. Loreen shares that she lost her mom in 1991. Loreen has two pets, a 24 lb. cat named "Fritz" and an 11 lb. Boston Terrier named "Bubbles"...who despite her size shows Fritz who's boss! Loreen's "off-work" interests include crafts, dancing, driving her '86 Buick Grand National (zoom-zoom!), and spending time with Kevin and their pets!

**We're glad to have you as a part of Keystone Laboratories, Jim and Loreen!**

## Farewell—Lisa Riegel

Chris and **Lisa Riegel** will soon be relocating to Keokuk, Iowa. Lisa is a Chemist at Keystone's Newton location, and her husband Chris has a new job as the Manager of Process Improvement at Griffin Wheel. Griffin Wheel is a steel foundry that manufactures railroad wheels for freight cars and locomotives.



Chris and Lisa plan on moving into their home at 2197 River Road, Keokuk, Iowa 52632 in May 2008 after their son, Kyle, graduates from Newton Senior High School. Lisa would like to share that Kyle was just awarded a \$50,000 Scholarship from the Society of Manufacturing Engineers. He plans to attend Loras College in Dubuque, Iowa where he will major in Electomechanical Engineering and play tennis, as well as possibly swim for the Duhawks. Loras has a fast track/reciprocal program with Iowa State University, so there is a possibility he may transfer after two years.

Lisa also gave an update on Kayla, sharing that she was accepted into the College of Education at the University of Northern Iowa. She will be a Junior next year, and keeps herself very busy with classes, a part-time job, and cheerleading. This past weekend, Kayla was selected as a cheerleader for UNI's Gold Squad. She will cheer for the football, volleyball, and basketball seasons during 2008–2009.

Lisa will miss Keystone, and she welcomes visitors to Keokuk! A party will be held at 11:30 AM on her last day, which is Friday—May 30th. Meat will be provided, bring a side dish or desert and come to wish Lisa good luck!

### Courier **Bill Jenkins Retires...A Cooler!**



Down in the Shipping/ Receiving Department at Keystone's Newton Laboratory, we couldn't let courier, **Bill Jenkins** say "good-bye" to his cooler without a picture! Bill figures he has been hauling samples with this cooler for almost 10 years. He

was ready to part with the "overworked" cooler—so he gave it a final send off in the dumpster out back of the lab! One of the reasons it was time for an upgrade he says is because the lid would fall off! But Bill tells us he has a new cooler that has problems of it's own!

### Proud Parent News



**Carson and Carter King**— sons of Josh and Kim King sporting their Saint Patrick's Day attire!

## Congratulations, **Erik and Sue Thompson!**



Showing off curls & new clothes

Erik and Sue Thompson welcomed a daughter, **Adison Marie** into their family on February 28, 2008 at 10:50 PM...nearly escaping the Leap Year! Adison is joined by her three big brothers—Jacob, Nicolas, and Dylan.

Mom says she is a good baby! While Sue was on maternity leave, we at Keystone enjoyed the CUTE pictures via email and the baby visits.

We welcome Sue back, as she returned to work on Monday, April 14, 2008.

Congratulations to Erik and Sue—welcome, baby Adison!



Adison with proud big brother, Nicolas

### **Lynzey Gallagher & The RACE!**

Lynzey Gallagher participated in an 8K race at the Newton Iowa Speedway on April 5, 2008. She placed **FIRST** in her age group, and **SIXTH** overall out of 136 women competing. Her overall time was 38:18 and she averaged a 7:42 mile. Lynzey is pictured below with co-worker **Staci Arnold** who was among friends and family supporting her on race day! **Way to go, Lynzey!**



### Proud Pet Parent News

Bill and Denell Henninger are the proud pet parents of a Teddy Bear Puppy—named "Tito". He is a mix between a Bichon and a Shitzu. Tito weighed in at 2.5 pounds and he was rescued from a puppy mill in Wisconsin. He came to live in Newton on March 15, 2008 at eight weeks old. He is pictured here with his big sister, Lynzey Loo. Tito likes to be held like a baby, and he likes to play with his nieces and nephew—Angel, Mollee, Lucy, and Liam. Tito is enrolled in obedience classes, which will start on April 29, 2008. His mom, Denell, is very much looking forward to his classes! Welcome to the family, Tito!



# Region 7 News....

## Significant Changes Proposed for Lead Emissions, Monitoring

EPA proposed a significant reduction in the National Ambient Air Quality Standard (NAAQS) for lead emissions May 1. The Agency proposes to move the standard from the 1.5 micrograms per cubic meter of air it has been since 1978 to a range of 0.10 to 0.30 micrograms per cubic meter. EPA also proposes to revise various elements of the standard to provide increased protection for children and other at-risk populations against an array of adverse health effects, most notably, effects on the developing nervous system.

The U.S. District Court in St. Louis ordered the lead NAAQS review and set the schedule in response to a lawsuit by the Missouri Coalition for the Environment in September 2005. Consistent with the terms of a court order, the EPA Administrator will sign a notice of final rulemaking by September 15, 2008 for publication in the Federal Register.

Region 7 has one of only two nonattainment areas in the U.S. for the lead emissions standard in Herculaneum, Mo., also the home of the only lead smelter in the country and designated as a Superfund site.

Region 7 will host one of two public meetings to discuss the lead standard June 12 in St. Louis, Mo. A separate announcement will be made with specifics regarding the meeting at a later date.

EPA has asked for comments regarding the tightening of the NAAQS standard, adjusting the monitoring and an implementation strategy. The 1.5 micrograms per cubic meter standard was established in 1978 and has not been changed.

Missouri's lead monitoring sites are presently located in St. Louis, Jefferson and Iron counties. Iowa, Kansas and Nebraska currently have no monitoring stations for lead emissions. Comment is sought on expanding the monitoring network to both source-based sites and large metropolitan areas. Source-based sites include smelters, iron and steel foundries, and general aviation gasoline. The metropolitan area monitoring would be required for metropolitan areas that exceed 1,000,000 in population (Kansas City and St. Louis).

Exposure to lead pollution is associated with a broad range of health effects including damage to the central nervous system, cardiovascular system, kidneys, and red blood cells. Lead emitted into the air can be inhaled directly or ingested after it settles onto surfaces or soils. Children are the most vulnerable to damaging effects of lead because their body systems are developing rapidly.

Source: <http://yosemite.epa.gov/opa/admpress.nsf>



Did you know?

Keystone Laboratories  
is a woman-owned small business.

# Vendor Profile—Hach Company

Our Vendor Profile this month is **Hach Company**. Keystone Laboratories has ties with this company for three reasons. (1) They are one of our clients (2) They are one of our vendors (3) They used to employ Jeff King, our Lab Director.

Back in 1975 Jeff's wife (Jodi) and his son (Josh) were getting tired of living on a graduate student's salary, so Jeff began working for Hach Chemical in Ames, IA as a Research Chemist. As fate would have it, the company decided to relocate their research and manufacturing facilities to Loveland, Colorado. Jodi and Josh were very happy to move out of their posh mobile home to a brand new house in Windsor, Colorado just a few miles from Loveland. Their daughter (Dana) was born in Loveland a few months later. Less than two years later, Jeff was recruited to work for Maytag and ended up in Newton, Iowa.

Now for some information about Hach Company.

## HISTORY



Hach Company was started in 1947, in Ames, Iowa, by an enterprising husband and wife team, Clifford and Kathryn Hach. They experienced their first success through the development of a simplified titration method for measuring hardness in drinking water. As the product line expanded to include more parameters and instruments, the company continued to “bring analytical chemistry out of the laboratory and put it into the workplace and in the hands of the general public.”

## TECHNICAL INNOVATION

From the 1960s through the 1990s, Hach Company has gone through a continuing series of technical and business innovations, including:

- Simplifying laboratory and portable systems
- Developing innovative reagent packaging such as the premixed and premeasured unit-dose “powder pillows”
- Developing worldwide product availability and support through a global network of authorized distributors
- Developing highly effective customer support, with a dedicated staff of customer service and technical support specialists
- Establishing the Hach Technical Training Center to provide training and support for our customers.

Recognizing that water quality is a global concern, they opened their Hach Europe office in Namur, Belgium, in 1972, as a first step in the expansion of our global presence that continues today. In 1999, their European facility moved to the Dusseldorf location of their sister company, Dr. Bruno Lange GmbH, offering them greatly increased capabilities as a distribution and support center for their customers in Europe and Mediterranean Africa.

## RECENT GROWTH

In 1998, they greatly expanded their portable testing capabilities with the acquisition of Environmental Test Systems Inc., in Elkhart, Indiana. ETS develops, manufactures and markets diagnostic test strips for both consumer and industrial applications. ETS operations continue to be based in Elkhart.

In 1999, Hach became a wholly owned subsidiary of Danaher Corporation, which includes over 30 companies working in the Process/Environmental Controls Industries.

The Loveland, Colorado facility houses the corporate headquarters, research and development laboratories, and instrument manufacturing operations. A plastics division and the Hach Technical Training Center are also based in Loveland facilities. Over 500 of their employees work in Loveland.

Employees at the facility in Ames, IA manufacture and package all the chemical reagents and test kits, and fill customer orders from the main warehouse there. Advanced electronic information systems help to pick, pack and ship hundreds of orders throughout the world every day. About 300 Hach employees work at Ames.

Hach Company—PO Box 389 Loveland, CO 80539—800.227.4224 [www.hach.com](http://www.hach.com)

