

DIVERSIFIED LABORATORY SOLUTIONS THAT ADVANCE BUSINESS GOALS

Microbac**Kentucky Division e-Newsletter**

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*Louisville - Lexington - Paducah - Evansville
Serving Kentucky, Indiana, Illinois, Ohio, and Tennessee***In This Newsletter**

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Please note your calendars that the 51st Annual Kentucky Water and Wastewater Operators Conference is March 30 - April 3, 2008. This year's conference location will be at the Lexington Center & Hyatt Regency in Lexington, Kentucky.

Lisa Martin, General Manager for Microbac Laboratories' Lexington Division, will be a guest speaker on Monday, March 31, 2008 at 3:30 p.m. The topic of her PowerPoint presentation will be Biomonitoring Basics 101. This presentation will cover the basics of WET testing, commonly referred to as Biomonitoring. Sampling and transport considerations to the laboratory will be discussed. Key terms utilized by the labs will be defined as well as quality control objectives used to evaluate test performance. Reporting options to the DOW will be addressed.

Microbac will also have an information booth with several of our staff on hand to answer any questions that you may have in regards to water and wastewater analysis.

For additional information on the registration packet, registration deadlines, room reservations, etc., please visit the KWWOA website at www.kwwoa.org.

QUALITY CORNER: TEMPERATURE OF SAMPLES

The temperature, that samples are required to be stored, transported and received at, vary according to the regulatory source.

Wastewaters are covered under 40 CFR Part 122. The requirement for most analyses is $\leq 6^{\circ}$ C.

Groundwaters and solids samples are covered under SW846 requirements. The requirement for most analyses is $< 6^{\circ}$ C.

If ground water and wastewater are received the same day as sampling, received on ice is sufficient as warm samples may not be the required temperature, but are in the cooling process.

Bacterial tests (Coliforms and E. coli) requires the samples be preserved $< 10^{\circ}$ C.

Kentucky UST requires 4° C for organic analyses. Received on ice is not acceptable for UST samples, even for the same day.

Upon receipt at Microbac, samples temperature is measured by using a calibrated laser thermometer on the sample or on the temperature blank in the cooler, if present.

The best way to deliver samples to meet regulatory requirements is to pack loose ice around the samples in a cooler. Pre-cooling in a refrigerator may be helpful for warm samples.

WORD OF THE WEEK

googol \GOO-goll\ *noun*

: the figure 1 followed by 100 zeros equal to 10^{100}

Example sentence:

In January 1997, astronomers Fred Adams and Gregory Laughlin predicted that the universe would end in a number of years equal to approximately one googol.

See a map of "googol" in the [Visual Thesaurus](#).

Did you know?

Around 1930, American mathematician Edward Kasner found himself working with numbers as large as 10 to the 100th power — that's a one followed by 100 zeroes. While it is possible to write that number using standard scientific notation, Dr. Kasner felt that it deserved a name of its own. According to his own account, Dr. Kasner asked his nine-year-old nephew, Milton Sirota, to pick a name, promising the boy that he would use the word in the future. Milton made up the word "googol," and so the enormous number was christened. Dr. Kasner kept his promise, and the word has spread and been widely adopted by mathematicians and the general public alike.

*Indicates the sense illustrated in the example sentence.

QUOTES OF THE WEEK

"When you combine passion and hard work, then success is always possible." -- Arte Moreno (1946-) owner of the Los Angeles Angels first Hispanic owner of a major league sports team

"If you'll not settle for anything less than your best, you will be amazed at what you can accomplish in your lives." -- Vince Lombardi (1913-1970) Hall of Fame football coach



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