



# AMERICAN CHEMICAL SOCIETY KENTUCKY LAKE SECTION

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### KLS-ACS Web Page

<http://kentuckylake.sites.acs.org/>

## March 2013 Kentucky Lake Section Meeting

*Los Portales*

806 University St, Martin, TN 38237

**Tuesday, March 26, 2013**

**Social @ 5:30 pm, Dinner @ 6:00 pm, Presentation @ 7:00 pm**

***The price is \$10 (Students \$5)***

**Presentation: "What Are These Chemicals That Are In  
(Or Not In) My Drinking Water?"**

**Dr. Gary L. Emmert**

Dunavant Professor of Chemistry

University of Memphis

See Reverse Side for Abstract & Biographical Sketch

## Comments from the Chair

Spring is in the air (at least on some days), and with spring it is time to get out of the house and participate in the world. That said, I hope you can all join us for our upcoming meeting on March 26<sup>th</sup>. Last month's meeting with Dr. Ramesh was very informative, and this month will be too. In addition, the winner of the 2012 Howard Huyck award will be announced at this meeting. This month's meeting is in the geographic middle of our section, so I hope everyone will be able to come out, meet your fellow chemists in the area, and enjoy the talk on a water treatment that could affect your everyday life.

~Phil Shelton, Chair

## **What Are These Chemicals That Are In (Or Not In) My Drinking Water?**

Water Chlorination is the great public health success story of the 20<sup>th</sup> Century, practically eliminating waterborne diseases. Unfortunately, the chlorination of water results in the formation of halogenated disinfection by-products known to be carcinogens. This seminar will present an overview of these chemicals that are found in drinking water and discuss new approaches to understanding where they come from and how they can be minimized through improved monitoring and process control.

### **Biosketch**

Dr. Emmert is the Dunavant Professor of Chemistry at The University of Memphis and Director of the Mobile Analytical Monitoring and Miniaturization Laboratory. He is Founding CEO and currently Chief Scientific Officer of Foundation Instruments, Inc. ([www.fih2o.com](http://www.fih2o.com)). He received his B.S and M.S. in Chemistry from Tennessee Tech with Professor V. Dean Adams. His Ph.D. in Analytical Chemistry from Miami University was under the guidance of Volwiler Distinguished Research Professor Gilbert Gordon. He joined the faculty at the University of Memphis in 2002. Professor Emmert's research interests focus on the chemistry of drinking water disinfection with emphasis on developing new and improved instrumentation for on-line, real time monitoring of disinfectant and disinfection by-products. He has published three books, more than 20 peer-reviewed papers and currently holds three US patents. He has been PI on more than \$2.2M in external funding. His research has been recognized with numerous honors including: three time recipient of the R. Thomas Davidson Research Scholar (Miami University), The University of Memphis Early Career Research Award, the First Tennessee Entrepreneurship and Innovation Fellowship, and more recently the Dunavant Professorship, the highest honor awarded to a faculty member in Arts and Sciences at The University of Memphis. In addition to his research interests, Dr. Emmert is a dedicated teacher and mentor. Several of his former students hold faculty positions at universities and he is currently a nominee for the Thomas Briggs Excellence in Teaching Award.