

SCC

SOCIETY OF COSMETIC CHEMISTS

THE SOUTHEAST CHAPTER



Volume XXIX, Number 6

November 2011

2011 Southeast Chapter Officers

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TREASURER-ELECT

Cathy Anglin

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November Officer Installation Dinner Wednesday, November 16, 2011

Location: Filicia Suzanne's Restaurant
80 Monroe Ave. in downtown Memphis, TN 38103

5:30 to 6:00 pm - Social Half Hour

6:00 to 8:00 pm - Dinner

8:00 pm - Officer Installation

\$45 SCC members / \$50 non-members

RSVP by noon, November 14th to Billy Maness
(901) 320-2157 or e-mail: billy.maness@merck.com



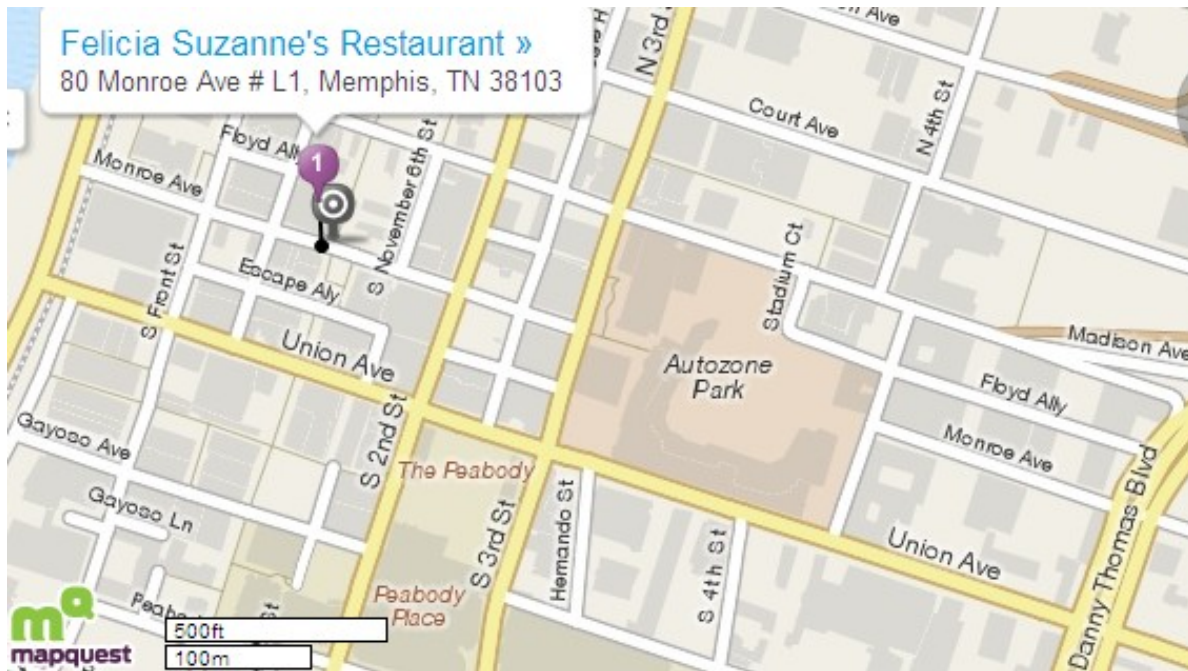
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**Directions to Felicia Suzanne's Restaurant, 80 Monroe Ave.
in downtown Memphis, TN**



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Message from the Southeast Chair

Our October meeting marked the change in seasons for the Memphis area and the fall colors are starting to show. We had a great time at Jim's Place-another outstanding venue selection by Lisa Sloan. Joe Albanese from 3V presented on "Desperately Seeking Synergy", an overview of how design of experiments can find influential factors to analyze complex systems and identify those confounded variables!

On November 16th we will have our chapter officer installation so please vote and get your ballot back to us by November 12th. Lisa has reserved space for us at Felicia Suzanne's, one of Memphis' best restaurants and a downtown institution for fine dining. Check out their site on the net-the only place I know where you can get authentic turtle soup-among other delicacies!

I hope everyone plans on renewing their membership. The dues can be renewed online on the SCC website, www.sconline.org and use the Online Dues Renewal System. However, if you don't plan to be a member in 2012, it's much better to formally resign. If you do not resign and want to rejoin later, you must pay dues for the rejoin year and the dropped year.

In closing I'd like to say it's been a great year. I've really enjoyed occupying "the chair", and I look forward to seeing you all next year!

Kevin Fowler
Southeast Chapter Chair

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Chapter Events
Meeting Dates for 2011:

Wed. Oct. 19, 2011
Speaker Dinner Meeting
Speaker: Joe Albanese
Jim's Place Restaurant
518 Perkins Ext. at Poplar
Memphis, TN

Wed. Nov. 16, 2011
Officer Installation
Memphis, TN




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"Advice to the Lab Lorn" is intended to offer advice, pertinent information or maybe just solace, for confusing, challenging or downright murderous issues facing SCC members in their labs. Send us your questions at lablorn@caliscc.org and we'll track down an authority or two and get back to you in the next offering of the Lab Lorn. We won't publish your name for all to see. Your secrets are safe with us.

John Garruto – President, Free Radical Technology – Editor

Q. We have a moisturizer formula that is made with a glucoside-based liquid crystal emulsifier that requires homogenization to correctly process the emulsion. Our contract manufacturer does not possess a homogenizer. Aside from changing manufacturers or the formula, do you have any recommendations for an alternate method?

A. Let's look at a typical emulsion (o/w) based on traditional ethoxylated emulsifiers. We typically heat both the aqueous and lipid phases to the proper processing temperature (generally 75-85°C). The lipid phase is then added to the aqueous phase and the product is mixed and cooled according to the batching procedure. When working with glucoside-based emulsifiers, the initial processing is roughly the same. The batch temperature after phase introduction is approximately 75-80°C and there is very little hydrogen bonding at this point. We then normally apply some form of high shear mixing to the emulsion to reduce particle size and to insure stability. The batch is then cooled and mixing should be done slowly* with very little shear to insure the orderly formation and distribution of liquid crystals comprised of both long chain fatty alcohol and spherical micelles.

One technique that we have employed successfully without the addition of high shear or homogenization is to add the water phase slowly to the oil phase of glucoside-based emulsion systems. Thus, these emulsions that normally, at room temperature, have an HLB of approximately 12 now have an HLB of somewhere in the vicinity of 5. They want to form water-in-oil (w/o) emulsions and in fact, do. As the emulsion cools, hydrogen bonding and HLB increases. There is a temperature, the Phase Inversion Temperature (PIT), at which the emulsion now inverts from w/o to o/w emulsion. When this occurs, the particle size will decrease and the distribution of these particles narrows. Both conditions make for an aesthetically acceptable, stable emulsion.

Naturally, you will need to verify the procedure in your own lab. This method may not work with all glucoside-based emulsions. You should perform all the usual stability testing to insure that the phase inversion process is acceptable for your product.

*One of the most commonly occurring processing problems that I have encountered over the years with liquid crystal emulsion systems is the application of rapid mixing or high shear forces below a process temperature of about 60°C. High Shear agitation below this temperature can disrupt the orderly formation of liquid crystals and the resulting emulsion may exhibit a lower viscosity and a greater propensity for instability.

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*For Additional Information on the Scientific Seminar,
visit the SCC website, www.scconline.org*

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