

# SCC

## SOCIETY OF COSMETIC CHEMISTS

# THE SOUTHEAST CHAPTER



Volume XXIX, Number 5

October 2011

### 2011 Southeast Chapter Officers

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## October Scientific Dinner Meeting Wednesday, October 19, 2011

**Location:** Jim's Place Restaurant  
518 Perkins Ext. at Poplar Ave. Memphis, TN 38117  
**(NOTE: This is a new location for Jim's Place)**

**Speaker:** Joe Albanese  
**Presentation:** "Desperately Seeking Synergy"

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

6:30 to 8:00 pm - Dinner

8:00 pm - Speaker Presentation

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

**RSVP by noon, October 17th to Billy Maness**  
**(901) 320-2157 or e-mail: [billy.maness@merck.com](mailto:billy.maness@merck.com)**



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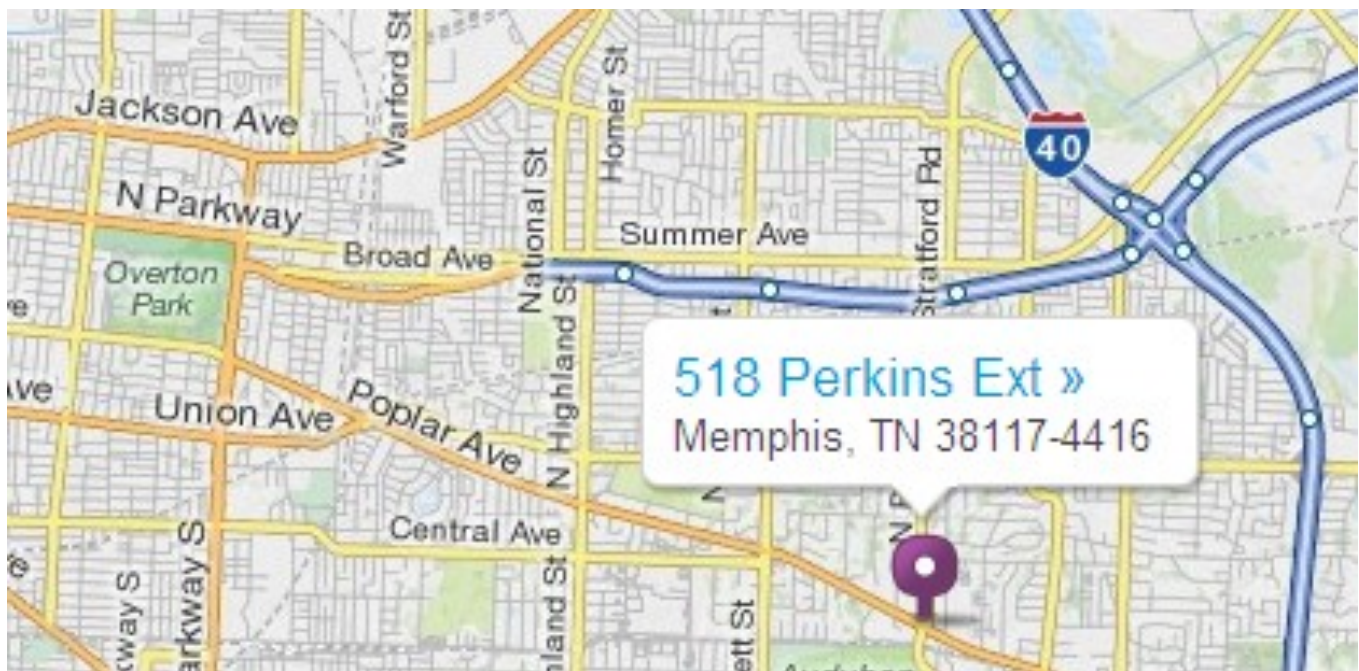
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Directions to Jim's Place Restaurant, 518 Perkins Ext. At Poplar Ave.,  
Memphis, TN (This is a new location for Jim's Place)



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## Message from the Southeast Chair

Thanks from the entire chapter to Vispi Kanga who gave a great CEP course on emollients and moisturization in Memphis. Thanks also to Do-reen in the National Office for supporting and arranging this rewarding opportunity.

Election time is here! Please consider running for office. The positions of Chair-Elect and Secretary are open this fall and ballots will be going out soon.

We're expecting a great meeting in October. Joe Albanese from 3V Inc. will be presenting on "Experimental Design – Desperately Seeking Synergy" on the 19th. This will be a very relevant topic to modern formulation requirements. Lisa Sloan has done her usual great job in finding us an enjoyable venue. The meeting will be at Jim's Place, formerly know as Jim's Place East. It is both familiar and new to us as they have moved to a new location but retained the delicious menu items that we have enjoyed in the past.

Save the date and join us for a fun and informative evening!

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](mailto: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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## Register now to attend the MWSCC 2011 Technical Symposium!

The speaker lineup has been announced for the Midwest Society of Cosmetic Chemists' 2011 Technical Symposium, and registration is now open.

ITASCA, Ill., USA — The Midwest Chapter of the Society of Cosmetic Chemists (MWSCC) has announced its speaker lineup for the 2011 Technical Symposium. As this year's theme is "The Many Faces of Cosmetic Science," the event will feature speakers in spectroscopy, internet research, skin care devices, choosing fragrance for personal care products and the US Food and Drug Administration's Final Rule on sunscreen labeling.

The event will take place on **Oct. 13, 2011** at the Westin Chicago Northwest in Itasca, Ill., USA. For the first time ever, the symposium will also feature a student poster session, where students from cosmetic programs nationwide will present their scientific work. The posters will be judged and awards will be given. This is great opportunity for students to present their ideas and findings and meet members of the MWSCC.

**Early bird registration before Sept. 30, 2011, will be \$105 for SCC members, \$120 for non-members and \$50 for Emeritus members. After Sept. 30, 2011, registration will increase to \$130 for members, \$150 for non-members and \$50 for Emeritus members.** The event will go from 9:30 to 3:55, with registration and breakfast from 8:30-9:30 and the student poster session from 9:00-3:00. The event has received record attendance in the past few years and space is limited, so register today! To register, visit [www.midwestscc.org](http://www.midwestscc.org). Registrations can be made by PayPal. Sponsorship of the event is also available on the website.

Following is the speaker lineup.

**Specks and Flecks, Lumps and Bumps—Identifying What Shouldn't Be There**

Kathleen Martin, research scientist/spectroscopist for McCrone Associates

**Designing Devices for Better Skin Care Efficacy**

Robb Akridge, PhD, co-founder and VP of clinical affairs for Pacific Bioscience Laboratories

**Choosing the Right Fragrance for your Personal Care Product**

Jill Costa, PhD, chief perfumer, Bell Flavors & Fragrances

**Cosmetic Chemistry 2.0—Using the Internet to Improve the Formulation & Product Development Process**

Perry Romanowski, VP of product development for Brains Publishing

**Interpreting the FDA's Final Rule for Sunscreen Formulation**

Farah Ahmed, chair of the Personal Care Product Council's Sunscreen Task Force

**One additional speaker to be announced.**





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## **CALL For TOPICS - 2012 Annual Seminar**

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### **Area IV of the Society of Cosmetic Chemists Proudly Hosts the 2012 SCC Scientific Seminar Charleston, SC**

**Now is your chance to tell us what you want to hear about!**

Representatives of your chapter are currently in the planning stages for this meeting, "Your Meeting", and we need your input.

#### **Chapter Members are invited to Submit topic and speaker suggestions**

to be considered for inclusion in the  
2012 National SCC Scientific Seminar.

***Deadline for submission is April 15, 2011.***

Suggestions may be submitted via email to  
Shontell Wright, Mid-Atlantic SCC Chapter Secretary  
([Shontell.Wright@fda.hhs.gov](mailto:Shontell.Wright@fda.hhs.gov))

#### **MEMBERSHIP RENEWAL:**

The 2012 SCC membership renewal was mailed out on August 1st. The dues can be renewed online on the SCC website, [www.sconline.org](http://www.sconline.org) and use the Online Dues Renewal System.

Included with the membership dues are copies of the SCC Journal, and chapter and national newsletters.

Your membership in the Society is important to us and we encourage all members and affiliates to pay their dues as soon as possible..



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*Continuing Educations Program TBD - May 30th, 2012*

*Technical Sessions, Luncheon and Student Poster Exhibit  
on May 31st and June 1st*

*Wednesday, May 30th Private Event at the SC Aquarium*

*Supplier's Cocktail Reception May 31st at the Charleston Marriott*

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*For Additional Information on the Scientific Seminar,  
visit the SCC website, [www.scconline.org](http://www.scconline.org)*

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