

SCC

SOCIETY OF COSMETIC CHEMISTS

THE SOUTHEAST CHAPTER



Volume XXX, Number 1

March 2012

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March Scientific Dinner Meeting Wednesday, March 21, 2011

Location: The Elegant Farmer Restaurant
262 S. Highland, Memphis, TN 38111

Speaker: Joe Dallal, Ashland Specialty Ingredients
Presentation: "Preservatives: When & How"

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

6:00 to 7:30 pm - Dinner

7:30 pm - Speaker Presentation

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

RSVP by noon, March 19th to Billy Maness
(901) 320-2157 or e-mail: billy.maness@merck.com



Inside this Issue...

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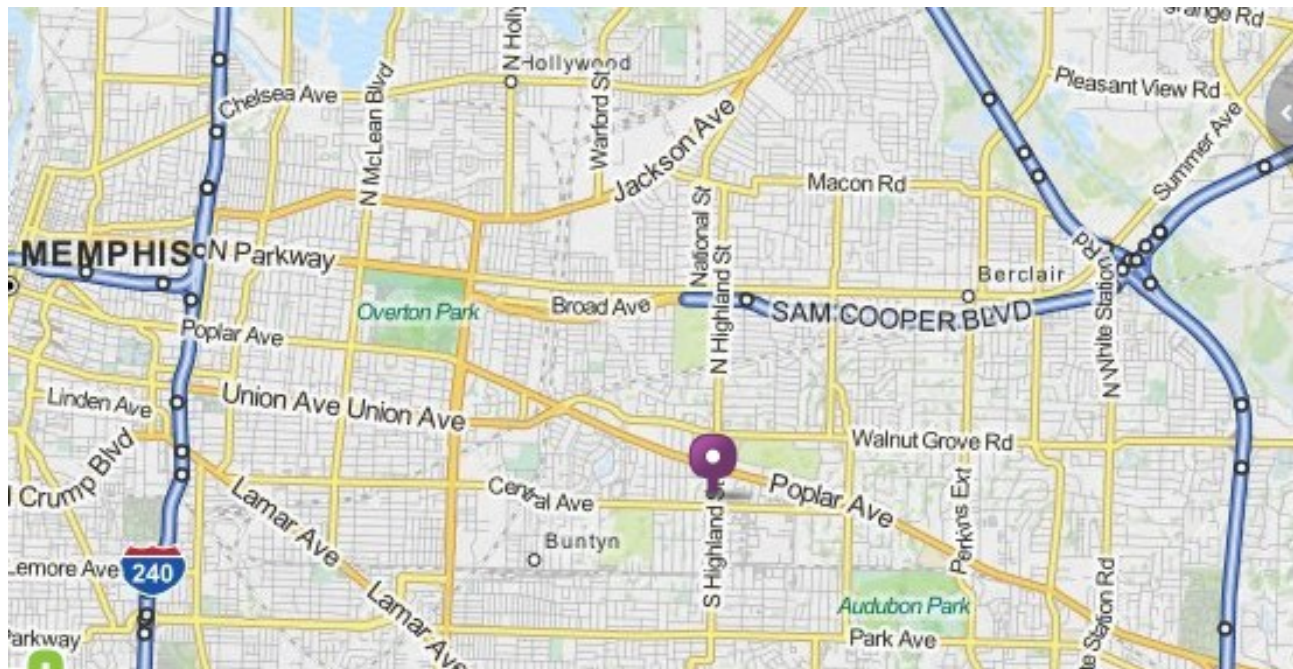
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Directions to dinner meeting at The Elegant Farmer, 262 S. Highland,
Memphis, TN 901-324-2221



Formulating beauty

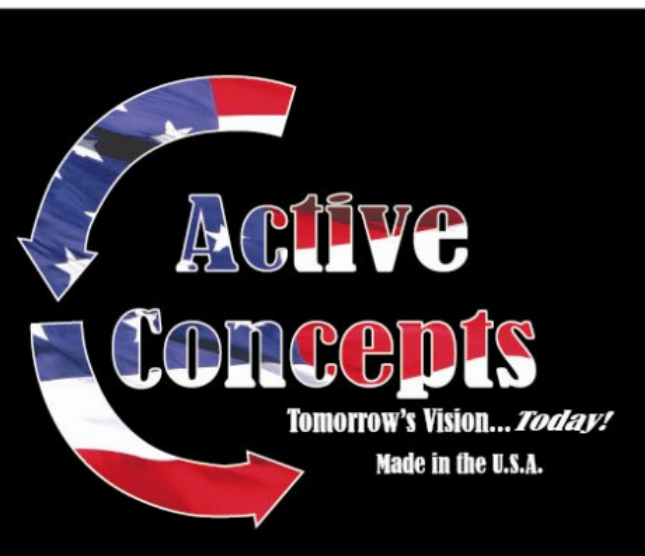
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Message from the Southeast Chair

Hello and greetings from the Southeast Chapter officers and chair for 2012. We are all looking forward to another great year. Your officers are already setting up dinner presentations of interest at great venues. Lisa Sloan has graciously agreed to continue to orchestrate our dinner meetings. Her ability to find wonderful places to hold our meetings are examples of her outstanding dedication to the chapter, life long devotion to 'good eats', and capitalize on the great restaurant options we take for granted in Memphis. The Southeast chapter has a great sense of fellowship and friendship, I look forward all month to our dinner presentations/socials. So if you haven't already please renew your membership, assuring you will continue to receive the newsletters and announcements.

Our March meeting will be at the Elegant Farmer restaurant where Joe Dallal will give us a presentation titled "Preservatives: Why and How". All of us recognize the necessity of good preservation in all of our products. For more information please see the abstract included in this newsletter.

Due to its popularity we will continue the supplier sponsorship meeting options. Cocktail Sponsorships are \$250.00 per meeting. The sponsor will be honored with an individual poster with logo at the meeting and a thank you from the chair at the opening of the meeting. Please contact me if interested; there are a limited number of slots.

Another opportunity for sponsorship will be extended for our Supplier's Social in June. Vendor sponsorship has always been a critical part of our supplier's night success, and this year we have established tiers of support: Silver Sponsor \$100, Gold Sponsor \$250 and Platinum Sponsor \$500. All sponsors will be listed on a poster, and thank you's will be announced.

See you at our scientific dinner meeting on March 21st !

Stephen Baldwin
Southeast Chapter Chair

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Abstract for the Memphis SCC Chapter March 21, 2012 Meeting

Preservatives: Why and How

Joseph Dallal, L.C., M.Sc.

Sr. Mgr. Technical Services, Ashland Specialty Ingredients
(formerly ISP)

Everyone knows we use preservatives in products, but why do we need them, how do we decide which ones to use, how do we know if they work, and how can we be sure they will work when we need them.

There are plenty of preservatives out there, but there are also a plethora of formulation types. Creative Formulation Chemists and Marketers are inventing creative ways to integrate oils and waters as well as sticking things into interfaces and between micelles which create havoc in the world of restrained water and nutrient rich environments for organisms to thrive.

Not only does the Formulator have to choose a preservative that holds the organisms at bay, but it has to work in the environment that was created. Not only does pH, type of emulsifier and emulsion, level and kind of oil phase, amount of 'available' water, and temperature of addition become paramount, but now Regulatory issues of various countries come into play (who allows what, and what part of the body will be in contact).

We will look at categories of formulation base and its relationship to organisms and preservative choices. For those of you who haven't seen what it takes to challenge the preservative system (and wonder why it takes so long, and you have to pay), I'll take you through a PET scenario, and analyze the reported results.

Who do I expect to profit from this discussion: Formulating Chemists (Skin, Hair, Other), Lab Managers, Microbiologists, Marketing, Consultants, Contract Manufacturers, and College Students.

Preparatory Questions and Follow-Up questions can be sent to jdallal@ashland.com



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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 - Vice President Formulation Development, SkinMedica - Editor

Q. When you see that a natural oil has a high oleic content, what does that mean and how high is high enough?

A. I assume that you are referring to the High Oleic (HO) oils most commonly used in personal care products such as HO Sunflower and HO Safflower Oil, so we will proceed with that assumption. Triglyceride oils such as sunflower oil and safflower oil contain a number of fatty acids in their profiles such as oleic acid, linoleic acid, stearic acid and palmitic acid. Generally the levels of stearic and palmitic acids are less predominant and they have relatively high oxidative stability so we will focus on the principal fatty acids of oleic and linoleic acid and their ratios in these oils. Remember that oleic acid is a monounsaturated fatty acid with only one double bond while linoleic acid is a polyunsaturated fatty acid and has two double bonds. The more double bonds a fatty acid possesses, the lower the oxidative stability and as such, an oil with a higher ratio of oleic acid to linoleic acid will have greater oxidative stability.

The fatty acid content of regular (non-HO) safflower oil and sunflower oil is approximately 10-20% oleic acid and 70-75% linoleic acid, hence a very low AOM (Active Oxygen Method) stability and will be easily oxidized and become rancid. The fatty acid content of HO safflower oil is approximately 73% oleic acid and 15% linoleic acid and has a far greater oxidative value and higher AOM. HO sunflower oil generally contains approximately 78-88% oleic acid and 3-10% linoleic acid and has an even greater AOM stability.

So...how high is high enough? I would say if you are looking for a relatively high level of oxidative stability, you should select an oil with the highest level of oleic acid and lowest linoleic acid content. That usually tips the balance in the favor of HO sunflower oil which has at least twice the oxidative stability of HO safflower oil. That being said, HO sunflower oil is more expensive than HO safflower oil and this factor should be taken into consideration as well.

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Charleston Marriott

May 31st - June 1st, 2012

SPECIAL EVENTS

May 30th - Private Event at the SC Aquarium

May 31st - Cocktail Reception at the Charleston Marriott

FOR ADDITIONAL INFORMATION

Scientific Seminar - www.scconline.org

SC Aquarium Event - Michelle Linscott

Michelle@xytrus.com



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SPECIAL EVENTS

Sept. 26 - CEP Course

Sept. 26 Evening - Cocktail Reception & Supplier Showcase
at Turtle Point Country Club

Sept. 27 - Full Day Technical Seminar

Sept. 28 - Annual Golf Outing at Osprey Point
Spa Treatment at the Sanctuary

FOR ADDITIONAL INFORMATION

Michelle Linscott - Michelle@xytrus.com

Michael Licciardello - mlicciardello@gracemg.com

SAVE THE DATE!

Midwest Chapter Teamworks 2012

March 21, 2012

Donald E. Stephens Convention Center, Rosemont, IL

New York Chapter Supplier's Day

May 15-16, 2012

New Jersey Exposition Center – Edison, NJ

SCC Annual Scientific Seminar

Hosted by Area IV

May 31 – Jun1, 2012

Charleston Marriott, Charleston, SC

Southwest Chapter Supplier's Day

August 23, 2012

Carolina Chapter Naturals Symposium

September 27-28, 2012

Kiawah Island, SC



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