



SOCIETY OF COSMETIC CHEMISTS

SAINT LOUIS CHAPTER

2011

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ST. LOUIS SCC
ANNUAL SCIENTIFIC
SEMINAR

FRIDAY SEPTEMBER 23RD, 2011

8:00 AM TO 4:00 PM

AT

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THE PRICE FOR THE SEMINAR IS \$40 PER PERSON
PLUS \$3 FOR PARKING

PLEASE SEE PAGE 3 OF THE NEWSLETTER
FOR COMPLETE INFORMATION.

RSVP by 9/16/2011 to Justyce Jedlicka: Justyce.Jedlicka@sial.com

Message from the Chair

I hope you have all had an amazing summer this year! Myself, I am sad to see it end. The school year has started for most, football season will be starting soon, and the Cardinals are still hanging in there. Before you know it, the leaves will be changing colors, the windows will be open, and we will be picking out pumpkins to carve. I know, I am getting way ahead of myself, but this is my favorite time of year so I can not help it! I am ready for our beautiful Mid-West fall! This has been a great year for our chapter so far and we have some really great events coming up to round out 2011.

SCC-STL News:

The SCC-STL Annual Picnic was cancelled this summer due to the excessive heat. We thank you all for understanding and we figured you would with an anticipated heat index well into the 100's for that day. This event, if time is available, will be re-scheduled.

The SCC St. Louis Chapter will host its Annual Scientific Symposium on the first official day of fall, which is **Friday, September 23, 2011**. This all day event is going to be fantastic so you do not want to miss this! Please save the date.

Remember to RSVP by 9/16/2011 to Justyce Jedlicka: Justyce.Jedlicka@sial.com

(Continued on Page 5)

Annual Scientific Seminar

This year our Annual Scientific Seminar will be held at the St. Louis Airport Hilton Hotel.

We have an amazing lineup of speakers this year so be sure and reserve your space today.

RSVP by 9/16/2011 to Justyce Jedlicka:
Justyce.Jedlicka@sial.com

Please see page 3 for more detailed information on this years event.



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SCC-St Louis Annual Scientific Seminar

DATE: Friday, September 23, 2011

LOCATION: St. Louis Airport Hilton Hotel
10330 Natural Bridge Road
Saint Louis, Missouri 63134
Tel: 1-314-426-5500

TIME: 8:00 – 4:00

Cost: \$40.00/person

Parking: \$3.00/person

SPEAKERS

8:00-8:30 Registration

8:30-9:30 **Mr. Murray Fryman:** *“Accelerating Natural Product Research and Development Projects Using Reveleris Purification Technology”*

9:30-10:30 **Tony O’Lenick:** *“Introduction to Patents”*

10:30-10:45 Refreshment Break

10:45-11:45 **Mr. Joe DeSalvo: DuPont Tate and Lyle Bio Products:** *“An Overview of Life Cycle Assessment Techniques”*

11:45-12:45 Lunch

12:45-1:45 **Ms. Linda Sedlewicz, 2010 Best Speaker for SCC Connecticut Chapter:** *“Current Trends in Cosmetic Preservation”*

1:45-2:45 **Dr. Anna Langerveld: 2010 Best Speaker for SCC New England Chapter:** *“Application of Genomics Tools for Personal Care Product Development”*

2:45-3:00 Refreshment Break

3:00-4:00 **Missouri Botanical Gardens:** *“Plants of the Bible”*

Menu

Breakfast: Assorted Companion Mini Danish
Muffins & Croissants with Preserves & Sweet Butter
Sliced Seasonal Fruit, Individual Fruit Yogurts
Freshly Brewed Regular & Decaffeinated Coffee
Selection of Fine Teas, Chilled Assorted Fruit Juices

Lunch: Hilton Salad, Caesar Salad
Tomato & Buffalo Mozzarella Salad
Antipasto Display

Pan Seared Chicken with Herb Tomato & Roasted Garlic
Grilled Pesto Salmon with Creamy Polenta
Cheese Tortellini with Roasted Vegetables
Olive Oil & Garlic Saffron Broth
Artisan Breads & Garlic Bread

Dessert: Tiramisu
Cannolis

Advice to the Lab Lorn

"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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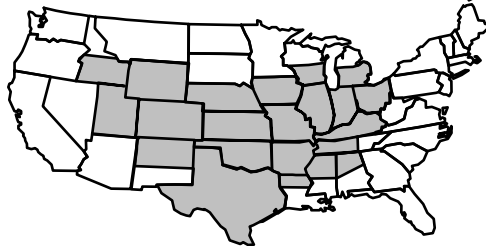
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Thank you and I hope to see you at the Scientific Symposium!

Lora Ruppert

SCC St. Louis Chapter Chair

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Message from the Chair

(Continued from Page 2)

The Board of Directors is extremely pleased to announce the launch of our new website: www.stlouisscc.org. We hope that you will take some time to explore the site and see what is new. One of the best new features is the ability to register and pay for events on the website. You can pay with an existing PayPal account or with a major credit card. Be sure to come back and visit the site often. We will be updating information and adding features frequently. We want to give a big thank you to Chip Meyer at Caliber Communications for working with us to design and launch the site!

The officer installation will be held on Thursday, November 3, 2011. The location is to be decided. We are currently in the works of planning this event and details will be on the chapter website soon. Make sure to reserve the date to come and see your 2012 St. Louis Chapter Officers Installed.

Our chapter holiday party will be Friday, December 2, 2011. Event information will be posted on the website soon, but please reserve the date to come out and enjoy the evening with us.



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