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Volume 15
Issue 2
April
2017

Don't

2017 SWSCC Monthly Meetings

SWSCC SUMMER EVENT—TOP GOLF

THURSDAY JULY 20, 2017

5:30 PM ON-SITE REGISTRATION

6:00 PM FAJITA BUFFET AND TOP GOLF PLAYTIME

TOP GOLF

8787 PARK LANE

DALLAS, TEXAS 75231

PLEASE REGISTER ON OUR WEBSITE!

Inside you will find:

Page 2—Educational Day
Pages 3—7 Past Meetings
Pages 8-10—National Events
Pages 11—15—Chemist's Corner

www.swscc.org





Southwest Chapter

SWSCC Educational Day August 17th, 2007

2017 Educational Day Agenda

- 7:45 AM On-Site Registration
- 8:00 AM Opening Remarks-Breakfast & Poster Session Opens
- 8:30 AM Mark Miller (Fitz Chem Corporation) Symmetry! Consumer Trends In Personal Care & Nutrition and What They Mean For Your Next Formulation
- 9:30 AM Jim Muhitch (Galderma) (TBD)
- 10:00 AM Morning Break, Raffle Prize Drawings & Poster Session Walk Through
- 10:30 AM Shannon Hess (Burt's Bees) Responsible Sourcing
- 11:30 AM Nadim Shaath (Alpha Research & Development) FDA Sunscreen Update & Healing Civilizations Video. FREE Book Included w/ Registration- limited quantities.
- 12:00 PM Buffet Lunch & Poster Session Walk Through
- 1:00 PM An Li (Shin Etsu) Elastomer Technology w/ Touch & Feel Presentation
- 2:00 PM Arnie Esperance (Gattefosse USA) NaDES Technology- Green Solvents
- 2:30 PM Regulatory Presentation (TBD)
- 3:00 PM Afternoon Snack, Raffle Prize Drawings & Poster Session Walk Through
- 3:30 PM Mark Chandler (ACT Solutions Corp) Cosmetic Formulations
- 4:00 PM Zach Townsend Start At The End- Chocolate Desserts w/ Chocolate Presentation

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SWSCC Monthly Meeting April 2017

Pappasitos Cantina Sponsored by Integrity Ingredients, Inc.



Chocolate Demonstration by Zach Townsend

Zach Townsend is the owner of Pure Chocolate Desserts by Zach and Dallas Chocolate Classes, specializing in private events and chocolate tasting and baking courses in Dallas and Fort Worth since 2003. Delicious desserts!



Technical Presentation

"Stratum Corneum: Why the fascination about a dead layer?" - G.K. Menon

Excellent presentation on the pallet our products are applied to!







SWSCC Golf Outing April, 20 2017





SECOND PLACE FOR 2017 Justin Brown, Robert Hendrickson, Jason Costa, Oscar Burgueno





SWSCC 2017 Golf Outing **April 2017**

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SWSCC Monthly Meeting May 2017

SWSCC Meeting on May 11th, 2017 sponsored by InKemia Green Chemicals, Inc.

Studio Movie Grill @ Royal Lane

Technical Presentation

R. Randall Wickett, Ph.D. Emeritus Professor of Pharmaceutics and Cosmetic Science The James L. Winkle College of Pharmacy, University of Cincinnati



Effects of season on stratum corneum barrier function and skin biomarkers.

It is well known that dry skin develops more readily in the winter than in the summer. In addition, skin is more responsive to irritants, such as surfactants in cleansing products during winter as shown in studies involving exaggerated use of washing products and on workers who repeatedly use cleansers in their occupations. The goal of the present study was to evaluate the effect of season on skin health by skin grading, biophysical measurement, and noninvasive sampling for NMF components, biomarkers, and SC lipids.



Society of Cosmetic Chemists Southwest Chapter



SWSCC / Mary Kay / BeautiControl Mindbenders June 21st 2017

Mindbender Academy is a program of the Frisco Education Foundation made possible each year thanks to volunteers and the financial support of numerous businesses and organizations. Mindbenders Summer Camp on June 21st was a fantastic opportunity within the STEaM fields for 6th, 7th and 8th grade FISD students.

Mindbender Academy encourages participants to explore the world of science, technology, engineering, art and math. Each day features fun, hands -on activities to extend learning outside the classroom.



Please thank the volunteers that made this happen!!

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2017 Sunscreen Symposium

Florida Chapter Society of Cosmetic Chemists

Global Innovation and Sustainability for the Future of Sunscreens

September 14th - 16th 2017

Call for Papers

Authors are invited to submit titles and abstracts of no more than 150 words for papers to be presented in podium format.

Submission Deadline: January 31st, 2017

All topics related to Cosmetic Science will be considered for presentation.

Submit abstracts to FLSCCSUN@gmail.com
Please include a photo and biography.

Time Table for Submissions:

- January 31st, 2017—Deadline for abstract submissions.—Include photo and biography
- March 1st, 2017—Presenters/Author notified
- May 1st, 2017 Presentation agenda finalized
- June 1st, 2017—Preprints, Author bios & abstract (min 200 word, max 2 pages including figures)
- August 1st, 2017—Final presentation received by FLSCC Chapter
- September 15th & 16th, 2017—Sunscreen Symposium Podium Presentation



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By Perry Romanowski

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Chemists Corner

How to stability test a cosmetic formula

Here's the biggest difference between what you experienced in your college organic chemistry lab versus a cosmetic formulation lab. In an organic lab, you mix chemicals together and hope something happens. Ideally, you get a chemical reaction you expect. As a formulating chemist, you mix chemicals together and hope nothing happens. Cosmetics are mixtures of chemicals that mostly aren't supposed to react with each other.

Unfortunately, they often do react (or otherwise change) so you need to test your formulas to see how long they will last. This is called Stability Testing and is something a cosmetic scientist spend much of her time doing. In this post, we'll give a brief description of the test and suggest when, why and how it should be done.

What is stability testing?

Stability testing is simply an experiment in which you create a batch of your formula and put samples of it at different environmental conditions for a set period of time. These conditions vary in temperature and light levels and are meant to simulate what will happen to the product during its life cycle.

At select intervals you evaluate your samples for various physical, chemical and performance characteristics to see how they have changed. If the changes are minimal according to your company standards, then your formula is said to have "passed" stability testing. This means you can have confident that when the formula is shipped to stores and ultimately customers, it will still be as good as when it was first manufactured.



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The underlying assumption in stability testing is that increasing storage temperature speeds up any aging reactions that will occur. A handy rule of thumb is that a sample stored at 45C for 8 weeks is equivalent to one that is stored at room temperature for one year. This isn't an exact predictor, but is good enough for the purposes of cosmetic products.

A sample stored at 45C for 8 weeks is equivalent to one stored at room temperature for a year

When do you perform stability testing?

Since you'll be making hundreds or thousands of prototypes during your career, it won't be practical to run a stability test on all of them. You'll also find that changes happen so rapidly at your company, you won't have time to properly test many of your formulas. But there are times when you need to do stability testing. Here is a short list of some of the most important times to conduct a stability test.

- 1. New prototypes Whenever you make a new formula and are satisfied with the way it performs, you'll want to do a stability test to ensure that it will stay together. Don't bother testing all your prototypes, just the ones that work the way you want.
- 2. New raw materials Whenever you have to change the fragrance, color, or other raw material in a formula, you'll have to do a stability test to make sure there aren't unacceptable changes. Also, when you have a new raw material source (or supplier) you'll want to run a test.
- 3. New manufacturing procedure Manufacturing is always trying to find faster ways to make formulas. This often means they change some order of addition or shorten mixing time. Whenever changes like these happen, it could affect your formula. Run a stability test to see if the change is acceptable.

Continued on next page

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Chemists Corner

4. New packaging — Cosmetic products change their look almost yearly so packaging is constantly being modified. Whenever you get a new package, you'll have to determine if the formula continues to be compatible. Stability testing helps ensure that it is.

How do you stability test a cosmetic?

There are no set rules on how you must conduct a stability test for cosmetic products. Of course, for cosmetic OTC products like sunscreens, AP/DO, or dandruff shampoos the FDA has specific stability test requirements that you have to follow. See the FDA website for more information.

Here is a basic format you can follow for conducting a cosmetic formula stability test.

Step 1 — Make your batch. Calculate how much to make based on the number of samples you'll be using for the test. It's a good idea to make 30-40% more than you think you'll need.

Step 2 — Fill your samples. Ideally, you'll have the correct packaging but don't count on it. When appropriate, fill glass jars with the product along with the finished package. In stability testing, you want to do both glass and packaging if possible. The number of samples depends on how much testing your doing but at minimum you should have 2 samples for each storage condition.

Step 3 — Take initial readings. Once you have a sample filled test it for all the characteristics you're going to evaluate later. The exact tests depend on the product but minimally you'll want to record notes about the appearance, color and fragrance. You'll also want to take pH and viscosity readings. For aerosol products you will test spray patterns.

Step 4 — Put samples at different conditions. Stability testing requires different temperature and light conditions. Some standard temperatures include 50C, 45C, 37C, 25C (RT), and 4C. You'll also want to conduct a freeze/thaw stability test which involves cycling your product through 24 hours of freezing then 24 hours of thawing. Different lighting conditions involve a fluorescent light box and a natural light box (to simulate sunlight).

Continued on next page



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Chemists Corner

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Step 5 — Evaluate the product. Samples should be evaluated at the following intervals. 2 weeks, 4 weeks, 8 weeks, 12 weeks, and 52 weeks. Only the RT, 37C and 4C samples will be evaluated after one year. The highest temperature samples and the light exposed samples only need to be evaluated for the first three test intervals. The evaluation tests should be the same ones you conducted when taking your initial readings.

Step 6 — Determine stability. After 8 weeks you can confidently decide whether your formula is stable or not. Nearly all products will exhibit some change so it will be up to you (and your boss) to decide whether the product passed or not.

Early in your career, stability testing will be one of the most common activities you'll do. If you can create a system that you consistently follow, you'll avoid burn-out and be able to confidently communicate when a product is appropriate to launch.

Chemist Humor

Q: How many moles are in a guacamole?

A: Avocado's number.

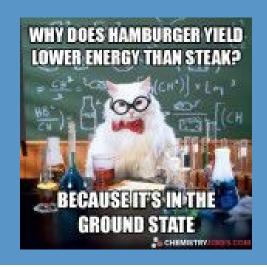
Q: If H20 is the formula for water, what is the formula for ice? A: H20 cubed.

Q: Why did Chlorine's sisters Boron and Carbon lock her in the closet? A: Because she was too attractive!

Q: Did you hear about the chemist who was reading a book about Helium?

A: He just couldn't put it down.





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UPCOMING NATIONAL CEP COURSES

Practical Basics and Theory in Emulsion Technology: August 23, 2017 | 9:00am - 5:00pm, SCC National Office (NYC)

Cosmetic Chemists Guide to Product Development: September 20, 2017 | 9:00am- 5:00am, SCC National Office (NYC)

Cosmetic Formulations: October 24, 2017 | 9:00am - 5:00pm PACIFIC TIME, Long Beach Convention Center (Add a day of education prior to CA Suppliers' Day)

Beginning Cosmetic Chemistry: October 24, 2017 | 9:00am - 5:00pm PACIFIC TIME, Long Beach Convention Center (Add a day of education prior to CA Suppliers' Day)

The Safety Assessment as Tool for Global Compliance of Cosmetic Products and their Ingredients:

December 10, 2017 | 9:00am - 5:00pm, The Westin New York at Times Square (Add a day of education prior to the Annual Meeting)

For more information on these and other CEP courses, please visit www.scconline.org/national CEP courses

71ST ANNUAL SCIENTIFIC MEETING DECEMBER 11-12, 2017

THE WESTIN NEW YORK AT TIMES SQUARE

The format of the 71st Annual Meeting includes two distinct tracks - a Basic/NextGen Track geared toward young professionals and those looking for introductory level information about the cosmetics industry, and an Advanced Track for those interested in learning about cutting edge science, technologies and product innovations. There will be limited opportunities for podium presentations, as this new program will consist primarily of invited speakers. Any abstract not selected for a podium presentation will be eligible as a poster and/or tabletop in the exciting new Technology Showcase (a limited number of tabletops for exhibition will be available).

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Make sure you check out the SWSCC website with improved features and easy to register / pay for events!!





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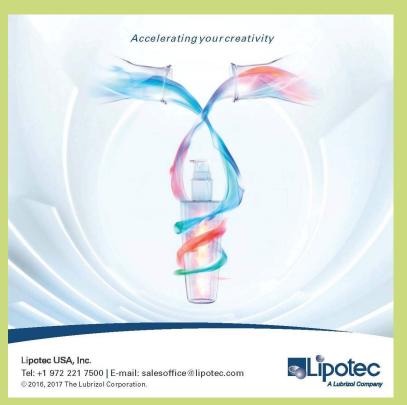




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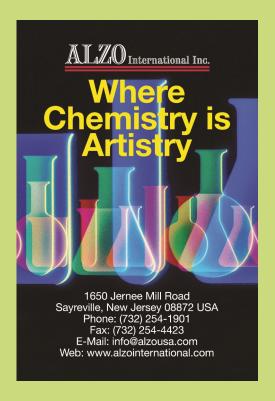














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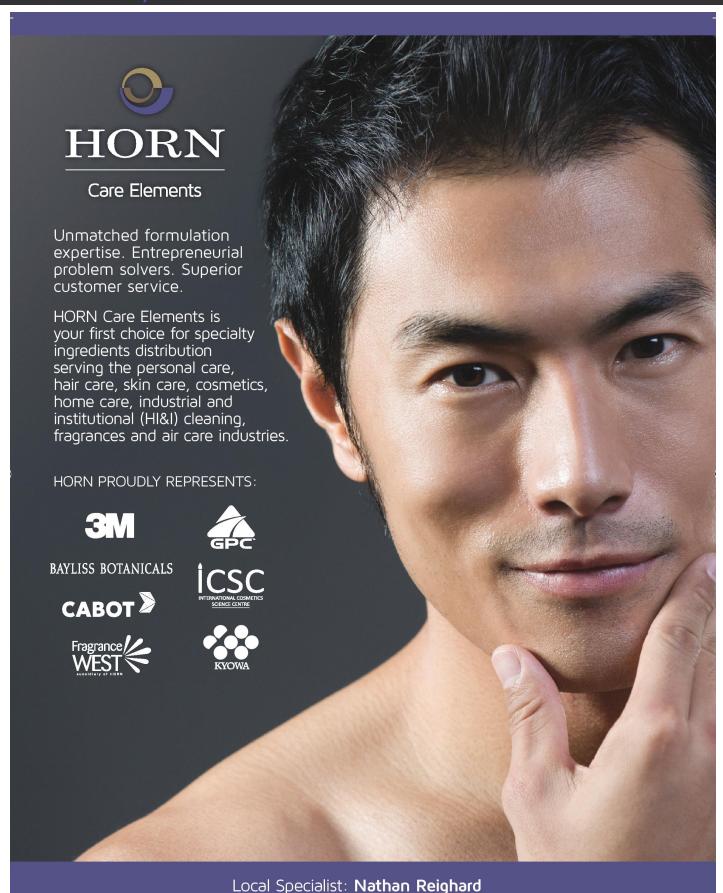
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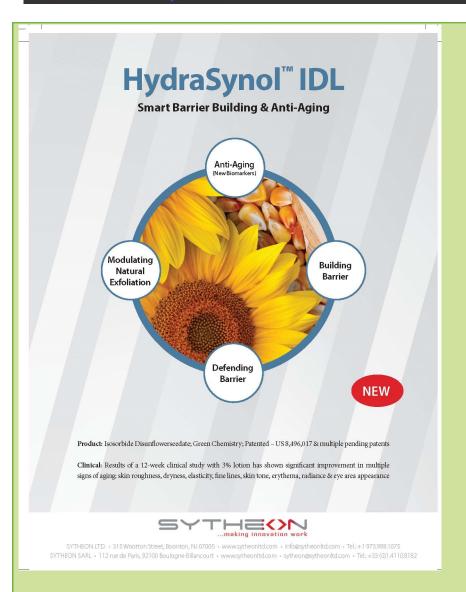






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Elections 2017-Alison Nally
Summer Event 2017-Rita Cabrera
Membership Chair-John Oliver
SWSCC Media-Cody Ermis / Alison Nally
Historian-Michele Stovall

A question gets asked of us why do we have to register for events. We have to give the venue a week's notice how many people will be attending for food count and seating. If you don't register, we might not have enough seating or food for the entire group.



Southwest Chapter



SAVE THE DATES!!!!

2017 SWSCC Calendar

July 20th Summer event—night

August 17th Educational Seminar—Day

September 14th Monthly meeting—night

October 19th Monthly meeting—day

November 16th Monthly meeting and officer

installation—day

December 1st Dinner / Dance



SAVE THE DATE -SWSCC Dinner / Dance December 1st, 2017

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Electronic ad needs to be in highest possible resolution JPEG form for best results.

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