

# COSMEGRAM

MARCH 2022 • VOL 52 | ISSUE 3



society of  
cosmetic chemists  
CALIFORNIA

## EDUCATIONAL HOUR SPEAKER



### THE IMPORTANCE OF WATER ACTIVITY IN COSMETIC PRESERVATION AND QUALITY

*Brady Carter, Ph.D.*  
*Senior Application Scientist, Neutec Group*

It is critical that cosmetic products consistently deliver their expected quality with no chance of safety concerns due to microbial contamination. The matrix of cosmetics can vary from low moisture powders to high moisture creams, making them particularly challenging to identify a parameter that provides useful information for the range of products. Water activity is measure of the energy of water in a product and is not moisture content. It is easier and more accurately measured than moisture content and has better correlation to both the microbial safety and physical quality of all types of cosmetics. For each microorganism, there is a water activity level below which it can no longer proliferate to infection levels. ISO 29621 provides guidelines for

microbial safety in cosmetics and identifies water activity as the key intrinsic factor for eliminating microbial risk. Water activity also controls the rate of chemical reactions, determines the textural properties, and prevents caking and clumping of cosmetic products. Identifying the ideal water activity for a particular cosmetic product will keep it safe and maximize its shelf life. This presentation will cover the theory and measurement of water activity, describe its various applications in cosmetics, and provide insights into how to identify the ideal water activity for a cosmetic product.

## ABOUT THE SPEAKER

Dr. Brady Carter is a Senior Application Scientist with Neutec Group. He specializes in Water Activity and Moisture Sorption applications. Dr. Carter earned his Ph.D. and M.S Degree in Food Engineering and Crop Science from Washington State University and a B.A. Degree in Botany from Weber State University. Dr. Carter has 20 years of experience in research and development has been the instructor for water activity seminars in over 23 different countries and has provided on-site water activity training for companies around the world. He has authored over 20 white papers on water activity, moisture sorption isotherms, and complete moisture analysis. He has participated in hundreds of extension presentations and has given talks at numerous scientific conferences. He developed the shelf life simplified paradigm and hygrothermal time shelf life model and is the leading expert in applying water activity to shelf life prediction.

## DINNER HOUR SPEAKER

Adam Rope & Aimeann DeJohn - Abstract and Bio will be posted on the web site soon.

## MEETING OVERVIEW

**Date:** Tuesday - Mar 22<sup>nd</sup>, 2022

**Time:** 5:00 PM to 8:30 PM

**Location:** Avenue of the Arts Hotel, Costa Mesa

**Menu:** Sirloin, Salmon or Ravioli

**5:00 pm:** Educational Hour

**6:00 pm:** Social Hour

**6:30 pm:** Dinner Hour and Speaker

**RESERVE NOW** ►

**Reservation Deadline:** 5:00 PM Friday - Mar 18<sup>th</sup>, 2022

**Reservation Link:** [caliscc.org/meetinginfo.php](http://caliscc.org/meetinginfo.php)

Prices increase after Reservation Deadline

No refunds after Reservation Deadline

Walk-in space is not guaranteed

[Meeting Details on Page 2](#)

## MEETING DETAILS

### LOCATION:

Avenue of the Arts Hotel, Costa Mesa  
3350 Avenue of the Arts  
Costa Mesa, CA 92626

### COSTS:

- Member Registration (\$30)
- Guest Registration (\$65)
- Emeritus Registration (FREE)
- Student Registration (FREE)

### MENU:

#### Entree Choices:

1. Roasted Top Sirloin - Chive and Cheddar Twice Baked Potato, Roasted Shallots and Baby Carrots, Fresh Herbs, Red Wine Demi
2. Sauteed Salmon - Wilted Spinach, Bacon and Mushroom Sauté, Baby Arugula, Balsamic Glaze
3. Wild Mushroom Ravioli - Butternut squash puree, Sage brown butter emulsion, topped with herb salad

**Salad** – Orange County Salad - Mesclun Greens, Toasted Pistachios, Oranges, Goat Cheese, Sweet Shallot Vinaigrette

**Dessert** – Lemon Pudding Cake – Thyme caramel

### RESERVATIONS:

The reservation pricing deadline is at 5pm on the Friday before the monthly meeting. Non-reservation pricing must be paid after this deadline. Reservations are not refundable after the reservation deadline. Please register and pay online at [www.caliscc.org](http://www.caliscc.org) or call Sara Benoit at 714-521-5222 ext.141. Call-in registrations must be guaranteed with credit card and will be charged for no-show.

## BECOME A SPONSOR

The SCC California Chapter is opening sponsorship opportunities to anyone interested in introducing their company during our monthly meetings.

The benefits of sponsorship are to provide you and your company with the following:

- Approximately three to five minutes to introduce your company and employees, products, capabilities and/or services.
- The exclusive right to distribute literature and samples at the monthly meeting.
- Optional table adjacent to the registration table to distribute literature and samples by one or two employees.
- Your Company name will appear on our sponsor board at the meeting.
- Your Company name and location will be included in all meeting announcements, including our monthly newsletter (Cosmogram) and all email announcements and reminders.
- Your company name will appear for one month on the SCC California Chapter website as “This Month’s Sponsor”, which will include a link to your company website and a small description about your company.
- One employee from your Company received free registration and dinner at the meeting your Company sponsors.
- Your donation to sponsor a meeting is tax deductible with our non-profit status.

**Cost:** The cost of sponsor a SCC Chapter meeting is \$500.00.

Please contact our Sponsorship Chair, Yi Hsin Chang if you are interested or have any questions.

[ychang@ingsolutions.com](mailto:ychang@ingsolutions.com)  
(949) 336-6275

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# TECHNICAL ARTICLE

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## THE CARBOMER/AMINE/STEARATE FORMULA CHASSIS: STILL CRAZY AFTER ALL THESE YEARS

By Matt Zoeller & Sam Kingkeo, 3V Sigma USA, Georgetown, SC 29440

One of the most widely used oil-in-water (o/w) emulsion formula chassis has been the classic combination of stearic acid saponified in situ with triethanolamine (TEA) rheologically stabilized by neutralized polyacrylic acid carbomers. The TEA-Stearate backbone dates back to early 20th century compounding. When carbomers were introduced to the cosmetic chemistry toolbox in the 1960's by the B.F. Goodrich Company (Carbopol™), this dated soap emulsification system took on a new life and proved to be an inexpensive, easily made, highly stable vehicle that found its way into thousands of personal care lotions and creams. One could say it was a love-match from the start: stearic acid needed TEA to saponify elegantly and carbomer needed TEA to neutralize readily. This formulation *menage-a-trois* succeeded for decades until the recent past, when TEA was disqualified from use due to its residual free diethanolamine (DEA), a hard luck story. The HI&I formulators still use it; however, like morpholine and pyrophosphates, you can put it on your floor but not on your face.

### SELECTION OF MATERIALS....

Many formulators moved on to other approaches, but this “old dog capable of new tricks” is readily updated for the 21st century formulator and regulatory environment. It only requires thinking outside the box. Tromethamine, or tris(hydroxymethyl) aminomethane (TRIS AMINO™ ULTRA PC from ANGUS Chemical Company) is not the same chemical as Triethanolamine, and that must be stated clearly since too many chemists associate the two together. Tromethamine is safe, globally compliant, has zero DEA, and is not a primary precursor to nitrosamine formation. It neatly replaces TEA in this amine-stearate/carbomer system.

Another aspect of this formula chassis is the often overlooked properties of carbomer itself. Many formulators are unaware there are several grades, adding unique gifts to this process. We used a less cross-linked carbomer (Synthalen™ L from 3V Sigma USA) that contributes lower viscosity for better flow properties, lower sensitivity to electrolytes but equal stability yield value: a win-win-win for lotion formulation. Certainly the higher cross-linked carbomers work well too, and if greater viscosity is the goal, these would be the better choice at nearly same concentration and cost. The prescribed level of use is 0.10 – 0.50% carbomer, but it pays to heed that carbomer viscosity and yield values are not always aligned with concentration; neutral viscosity is less at the lower use range but will not be linear with higher additions e.g. neutral viscosity of Synthalen™ M at 0.20% is ~5000 mPa while neutral viscosity of 0.50% is ~35,000 mPa. The stability of the final product will be the same at either use level. Use this property of carbomers to your advantage!

The stearic acid itself must be carefully selected also. Here again, not all “Stearic Acids” are same. The higher grades (>90% C18) used in pharma and as building block precursors are not appropriate for this application. It may seem counter-intuitive, but the best grade to use is Stearic Acid NF 50 TP (triple pressed) which comprises 40 – 60% C18, the balance being mostly palmitic acid (C16). Both saponification and acid values should be in the vicinity of 210. This material, also called soap grade stearic since the soapers use it, provides the best results.

### PROCESSING MATTERS....

To know where we are going, let's look at where we've been. Exhibit 1 states a classic TEA/stearic acid/carbomer formula, where the nominal (perhaps traditional?) saponification ratio with triple pressed stearic acid to TEA 99% is 6.5:1. You always saponify/neutralize to a pH < 7.0 after incorporating oil phase, leaving some free stearic acid. This small amount of free fatty acid acts like a builder but also impedes pearlescence on aging. Addition of glyceryl stearate (GMS-SE) or sorbitan stearate builds the emulsification properties, cetyl-stearyl alcohol mitigates the “soaping” effect while building lamellar liquid crystal structure in conjunction with GMS. You also add 200 - 300 ppm sodium lauryl sulfate to the water phase before combining phases, reducing surface tension and micelle size. Finally, you add the TEA above 65°C after combining phases and you will always cool and mix the batch slowly until it reaches 40 - 45°C enabling viscosity build.

Substituting tromethamine at a ratio of 0.85:1.00 to TEA will produce an equally elegant product. The formula in Exhibit 1 could be elevated to a viscous cream by several means. Switching to a heavier cross-linked carbomer at same or higher concentration is the easiest approach, but also increasing the amine-stearate or cetearyl alcohol/glyceryl stearate content would work too, though the cream becomes denser not necessarily richer. Note the lipid phase presence of non-polar (petrolatum), polar (IPM) and silicone materials. This demonstrates one of the great virtues of this classic chassis: it accommodates nearly all lipid classes in a stable format.

## TECHNICAL ARTICLE CONT.

It may occur to you – and must be noted – that other alkali can perform the same stoichiometric job plus neutralize carbomer, even the basic mineral hydroxides. As any veteran formulator can tell you: the outcome in product appearance and texture will not be the same. This is keenly seen when applying this to shaving cream, a common use of the format. You will not get the same results in foam quality and texture with any other alkali. Tromethamine comes closest to matching TEA in all aspects of finished product quality. The formulation is then reiterated in Exhibit 2 as a more modern version, with the same carbomer (Synthalen™ L) but now with tromethamine (TRIS AMINO™ ULTRA PC). We increased the Natural Origin Content (NOC) by substituting the petrochemicals and dimethicone with lipids having higher NOC values. We also switched out the sulfate, preservatives and glycol to less controversial materials, although the originals are still compliant and provide superior results. The appearance and texture of the updated lotion is on par with the classic and stability is uncompromised. The oil load composition may be liberally altered, building body using hydrocarbons, esters or waxes.

Functional and botanical additives of many types are compatible with this pH neutral system, though strong electrolytes and cationics are discouraged lest the carbomer become dissociated, crashing viscosity and stability. You the reader may also ask: with HASE thickeners available, why is this system still relevant. The answer is simple: cost and sustainability. The total cost of the formulation cited is nearly the same as the cost contribution of the polymer alone in a similar formula with most associative thickeners. Supply chain availability, sustainability and renewable content for stearic acid and the builders used are stable. We are talking economy and elegance here: chief reasons this formula medium gained popularity in the first place.

What was old is new again as long as you keep your Critical Thinking Cap on.

### EXAMPLES

EXAMPLE #1: Classic TEA-Stearate/Carbomer Lotion (A)

Item	Material	%w/w
1	Water deionized	79.87
2	<b>Synthalen™ L (Carbomer)<sup>(1)</sup></b>	<b>0.20</b>
3	Glycerin USP	3.00
4	Propylene Glycol	1.00
5	Methylparaben NF	0.10
6	Sodium Lauryl Sulfate 30%	0.10
7	<b>Stearic Acid NF-TP 50<sup>(3)</sup></b>	<b>1.50</b>
8	Glyceryl Stearate SE	1.00
9	Cetearyl Alcohol (1:1)	2.00
10	Petrolatum white USP	4.00
11	Mineral Oil white 70 NF	4.00
12	Isopropyl Myristate	1.00
13	Dimethicone 350 cst	1.00
14	<b>Triethanolamine 99%*</b>	<b>0.43</b>
15	Abiol Forte (diazolidinyl urea) <sup>(1)</sup>	0.40
16	Fragrance	0.40
	TOTAL	100.00
B	<b>*sub with TRIS AMINO™ ULTRA PC (tromethamine)<sup>(2)</sup></b>	<b>0.36%</b>

(1) 3V Sigma USA

(2) Angus Chemical

## TECHNICAL ARTICLE CONT.

EXAMPLE #2: Updated Amine-Stearate/Carbomer Lotion high N.O.C.

Item	Material	%w/w
1	Water deionized	79.44
2	<b>Synthalen™ L (Carbomer)<sup>(1)</sup></b>	<b>0.20</b>
3	Glycerin USP	3.00
4	Butylene Glycol	1.00
5	Sodium Lauroyl Sarcosinate 30%	0.10
6	<b>Stearic Acid NF-TP 50<sup>(3)</sup></b>	<b>1.50</b>
7	Glyceryl Stearate SE	1.00
8	Cetearyl Alcohol (1:1)	2.00
9	Hydrogenated Rice Bran Glycerides	4.00
10	Pentaerythrityl Tetraisostearate	4.00
11	Isopropyl Myristate	1.00
12	Cetyl Esters	1.00
13	<b>TRIS AMINO™ ULTRA PC (tromethamine)<sup>(2)</sup></b>	0.36
14	Sharomix EG-14 <sup>(4)</sup>	1.00
15	Fragrance	0.40
	TOTAL	100.00

(3) Acme-Hardesty

(4) Coast Southwest

## ABOUT THE AUTHORS



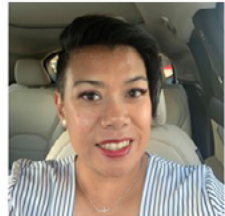





**Matt Zoeller** manages the personal care and HI&I formulation applicative venture for 3V Sigma USA, a specialty chemical manufacturer based in Georgetown, South Carolina and part of the 3V Group of Bergamo, Italy. A longtime veteran of the contract manufacturing locus in Chicagoland, he's been involved in the formulation and technology transfer of thousands of personal care and homecare products of all mediums. He is a frequent knowledge contributor to Perry Romanowski's Chemist Corner forum under the guise "chemicalmatt." Matt may be reached at [m.zoeller@3vsigmausa.com](mailto:m.zoeller@3vsigmausa.com).



**Sam Kingkeo** is a principal scientist in the applicative lab at 3V Sigma USA. He previously developed national brand equivalent products for contract manufacturer Vison in their Smyrna, Tennessee laboratory. Sam may be reached at and [s.kingkeo@3vsigmausa.com](mailto:s.kingkeo@3vsigmausa.com).

## 2022 Executive Board

Past Chair 2021	2022 Chair	Chair-Elect	Treasurer	Treasurer-Elect	Secretary
					
<b>Ryan Kudla</b> Account Executive, Western Region Barnet Products	<b>Margarita Gomez-Nadin</b> Account Manager Vantage Specialty Ingredients	<b>Michelle Carrillo</b> Vice President Actera Ingredients	<b>Mason Montgomery</b> Sr. Product Development Manager Dr. Squatch	<b>Diane Horne</b> West Coast Key Account Manager LipoTruc	<b>Kendall Johnson</b> Senior R&D Manager COOLA*



## 2022 MEMBERSHIP DUES RENEWAL REMINDER

Hello fellow SCC members and friends,

We know 2021 has been a very challenging one for all of us:

- We had to adjust to a New Normal.
- During these times of change and uncertainty, SCC remains dedicated to its membership base and family.
- We are always eager to continue and offer relevant cosmetic science-based education for you.

### THE QUICKEST AND EASIEST WAY TO RENEW IS ONLINE!

To pay online go to <https://members.sconline.org> and login using the username and password you set up. If you have not set up your username and password on our new database please go to <https://www.sconline.org/registration> and create your own.

Whenever you do rejoin, it is only for the calendar year. (i.e., if you rejoin in November 2022, you are only pay for two months so rejoin now and get the (almost) full year.

### LATE FEES AND REINSTATEMENT FEES ARE WAIVED!

Due to the ongoing pandemic the Board has approved to waive the \$25 late fee for 2022 and waive the \$50 reinstatement fee until June 30th.

### ATTEND MORE MEETINGS!

- You can attend the California Chapter meetings at the member rate.
- Did you know you can attend the other 18 Chapter meetings, National Meetings and IFSCC events at the member rate?
- The National Annual Scientific Meeting will be held outside of New York City for the first time, and it will be held at the JW Marriott in Los Angeles December 12 – 14, 2022. You will definitely want the member rate for that.

\* Note: If your company has a group of five or more members, you can contact Colleen Daddino, Manager of Membership and Chapter Relations, [cdaddino@sconline.org](mailto:cdaddino@sconline.org), for a group invoice. You may pay online or mail a check.\*

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## MESSAGE FROM THE CHAIR

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Can you believe we are wrapping up the first quarter in 2022? Hopefully you are having an exciting year so far. As a chapter, we hit the ground running in 2022. We have enjoyed greeting both new and familiar faces at our in-person monthly meetings. As a board we put in a lot of hours behind the scenes focusing on our theme for 2022 Continued Education and our 2022 goals:

1. Resurrect Extension Courses
2. Establish Scholarships
3. Create mentorship, expand internship opportunities



We met with UCR to discuss the potential for creating a Cosmetic Science program in the West Coast to support our Extension Courses for Cali SCC members. Included in our ambitious proposal is creation of an undergrad, post grad and certificate program in Cosmetic Sciences. Separately, we initiated the creation of scholarships at two universities supporting career paths in STEM focused on careers in cosmetic science. Next, we are going to reach out to companies on the West Coast for internship opportunities and draft a plan to launch a mentorship program. Another driver behind these goals is expanding diversity and inclusivity, including those impacted by financial barriers to our industry.

If you have any suggestions, internship opportunities or would like to volunteer as a mentor, please reach out to me via [Chair@CaliSCC.org](mailto:Chair@CaliSCC.org) or contact another board member. We cannot accomplish these goals without your support.

What's next in Q2? The Dinner Dance and CEP course. We are trying to host the CEP Course as our April monthly meeting, but this may happen later in year. Stay tuned for date, time, and details! The June meeting will be held in the Bay Area. And the Dinner Dance is set for set for June 4th at the J.W. Marriott in Downtown LA. We can't wait to see everyone dressed to the "nines" in their Roaring 20's regalia.

Our February meeting went well. With 88 registered guests at the Ayres Manhattan to hear Alison Griffin from Sudarshan present 'Decoding the Crystal Ball': Color Trends – Where they Come From and How they Translate for Cosmetics, Fashion, Home & Décor'. Alison is a two-time winner of Speaker of the Year. Her talk on Tuesday was amazing! Unfortunately, our second speaker backed out last minute and we could not replace the second speaker. Given the unusual times we are living in, this is completely understandable as many of our members are not able to attend in-person meetings due to travel restrictions. We tried a different format for the timeline of February's meeting. We have received positive feedback. It gave us a more time to mingle and connect with those in attendance. Let us know what you think works best. Special thanks to our meeting Sponsor Cargill!

Our National President Michelle Hines was our special guest at our February Meeting. She discussed SCC hosting a panel at Makeup LA, which was held on Thursday, February 24th. Michelle moderated the panel of industry leaders as they shared their expertise in ingredient trends for skin care and color cosmetic products. Look for details in this issue on that wonderful panel. SCC also hosted a booth which was visited by many people interested in learning more about what our societies offered. Michelle discussed the SCC 2021 Madam C.J. Walker Scholarship winners. And she announced a call for papers for the SCC 76th Annual Scientific Meeting & Showcase. During this announcement, she pointed out this will be the first time the annual symposium is held outside of NY. Save the date for December 12-14 at the J.W. Marriott in Los Angeles, California. Cali SCC is partnering with National SCC to host an event during the symposium. More details to come!

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## MESSAGE FROM THE CHAIR CONT.

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Each month I would like to highlight some of our board members who volunteer to keep Cali SCC moving along. This month allow me to introduce our Bylaws Chair, Treasurer and Dinner Dance Committee.



Matt Driver, our Bylaws Chair, has spent countless hours rewriting out Chapter Bylaws for the past few months. No easy task, he dived right in! We submitted the revision to National for the Governance Board review ahead of the deadline. Now he's moving on to work on the Chapter Policy Rewrite.



Our Treasurer, Mason Montgomery, along with the rest of the executive board, worked on our 2022 Budget. We went over it with a fine-tooth comb. Where can we invest? Where can we save? What makes sense going forward? What do we need to scale back on? Mason ensured we met the national deadline!



As mentioned above, our Dinner Dance is back! Sandi Luna and Julie Roque are our Dinner Dance chairs. Together they have spent the past three years planning the Roaring 20's event. They have quite a party planned for all of us!



These are just a few of the incredible people behind the scenes. Your board was busier than you might think on our ambitious aspirations for growing, improving value and engagement for membership.

What can you do to help?

- RENEW YOUR MEMBERSHIP! Update your contact information and sign up for emails.
  - Our website: <https://caliscc.org/index.php>
- Tell your peers about Cali SCC, ask them if they are member and share the website to join.
- Join us at our next meeting on March 22nd at the Avenue of the Arts to hear more Testing Methods.
- Follow us on social media.
  - LinkedIn: <https://www.linkedin.com/company/society-of-cosmetic-chemists-california-chapter/>
  - Instagram: [https://www.instagram.com/cali\\_scc/](https://www.instagram.com/cali_scc/)
- Visit National's website for additional information on other events and member resources.
  - <https://www.sconline.org/Events>

Please continue to join us on the journey. Your participation, engagement, and contributions to our society and industry matter.

Margarita Gomez-Nadin  
Regional Account Manager, Vantage Specialty Ingredients, Inc.  
2022 Chair, California Society of Cosmetic Chemists  
2022 Chair, Diversity & Inclusion Insights Committee  
Email: [margarita.gomez-nadin@vantagegrp.com](mailto:margarita.gomez-nadin@vantagegrp.com)

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## LETTER FROM THE EDITOR

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Welcome to the March Cosmegram Issue of 2022! When I think of March, I think of Saint Patrick's Day, the luck of the Irish and loads of people wearing green. Then it had me thinking about green chemistry and the many different definitions and I thought it would be great to define them for this issue. But reality set in and I thought at least I know that Chlorophyll is the pigment that makes plants green and I'll leave the science of green chemistry to those that are smarter than me.....



In this issue of the Cosmegram, we have published an article from Matthew Zoeller & Sam Kingkeo of 3V Sigma USA taking a closer look at the carbomer & Steric Acid emulsion chassis. This is a great overview of where we were and where we can possibly go with this chemistry. The author's contact information is available in the bio for comments, as is with my information here.

Please let me know if you would like to become part of the technical article team of the Cosmegram by emailing me. And if you have a technical article, please email that to me with your bio and picture.

Happy Reading!

Jennifer Lee Curtis  
Presperse Corporation  
CASCC Cosmegram Editor 2021 – Present  
714-745-7216  
[jcurtis@presperse.com](mailto:jcurtis@presperse.com)

To submit Articles for the Cosmegram – email – [jcurtis@presperse.com](mailto:jcurtis@presperse.com)  
To be on the Cosmegram Technical Article committee – email – [jcurtis@presperse.com](mailto:jcurtis@presperse.com)

# 2022 CALI SCC CALENDAR OF EVENTS

Most of our events are already posted on the website, but please see below to mark your calendars for important dates in 2022!

## MONTHLY MEETINGS

- March 22, 2022 – Ave of the Arts – Costa Mesa
- April 26, 2022 – Sheraton Universal Studios
- May 24, 2022 – Dukes Malibu
- June 14th, 2022 – San Francisco Marriott Marquis
- September 27, 2022 – Ave of the Arts – Costa Mesa
- October 25, 2022 – Noor Pasadena
- November 15, 2022 – Ayers Hotel LAX

## OTHER IMPORTANT DATES

- Return of the Dinner Dance – June 4th at JW Marriott Los Angeles L.A. LIVE
- CA SCC Scientific Seminar - Sep 27th, 2022 in Costa Mesa, CA
- National SCC 76th Annual Scientific Meeting & Showcase – Dec 12th-14th, 2022 at JW Marriott Los Angeles L.A. LIVE
- California SCC Chapter 65th anniversary in 2023





# We Value What Makes Each of Us Different

As a professional association in the cosmetics and personal care industry, the Society of Cosmetic Chemists (SCC) represents nearly 6,000 members globally. **Diversity, equity and inclusion are at the core of who we are as an organization.**

We are committed to advancing, cultivating, and preserving a culture of diversity, inclusion and belonging because a successful community of industry professionals working together to promote science, innovation, and education is our mission.

We are strengthened by the varied identities, experiences, cultures, and perspectives of our leadership, employees and members. The Society of Cosmetic Chemists is committed to fostering a safe and welcoming environment where everyone is shown respect and dignity, and opportunities for engagement and participation are available regardless of age, appearance, ethnicity, gender identity, geographical location, national origin, professional level, race, religious beliefs, sexual orientation or socioeconomic status.

The Society of Cosmetic Chemists pledges to:

- Stand against racism, intolerance, and discrimination.
- Speak up and address bias wherever we see it, whether conscious or unconscious.
- Foster open, candid, and constructive dialogue.
- Prioritize diversity, equity and inclusion as a primary and essential business function.
- Be an environment in which any individual or group can be and feel welcomed, respected, supported, and valued to fully participate.

We encourage all of our members, and the global industry as a whole, to join us in these efforts.

## STAND UP. SPEAK UP. FOR ALL.



SOCIETY OF COSMETIC CHEMISTS  
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*Dedicated to the advancement of cosmetic science*

# ATTENTION! ATTENTION!

## In-House CEP Courses Available

In-House Courses are highly-personalized courses brought to companies to address challenges or areas of need. These courses, taught by knowledge experts, provide professionals with an up-to-date cosmetic science education. Recent In-House Courses have been organized for **Benefit Cosmetics, Mary Kay, Bayer**, the **FDA** and others.

Companies interested in providing in-depth technical information to their employees can contract an education day in a location of their choosing.

- ▶ **SOCIETY** covers the costs of booking the instructor and all of the instructor's traveling expenses (including hotel, flight, car, etc.)
- ▶ **COURSES** can be scheduled for 1 or 2 days on any topic of particular interest to the company
- ▶ **COMPANIES** can choose the instructor if they seek a specific knowledge expert

### Current courses available include:

Scale Up & Processing	Botanicals & Naturals for The Naturals Market	Preservatives
Regulatory	Chemistry & Regulations of Cosmetic Colorants	Cosmetic Rheology
Color	Molecular Biology & Gene Expression	Color & Make-Up
GMPS For Cosmetics	Phytochemistry 101 For Cosmetic Chemists	Surfactants
Cosmetic Formulations	cGMPS For Cosmetics and Otc's	Cosmetic Raw Materials
Regulatory Update	Practical Basic & Theory in Emulsion Technology	Fragrance as A Science
Beginning Cosmetic Chemistry	Cosmetic Chemists Guide to Product Development	Silicone Chemistry
Basic Hair Science	Sustainable Cosmetic Product Development	<i>and more!</i>

To reserve a course for your team,  
contact Sam Neely at [sneely@scconline.org](mailto:sneely@scconline.org)

Natural & Performance Anti-Aging Innovation

Inspired by nature,  
realized by science.



Contact Tina-Marie Lesko for a consultative discussion  
[tinamarie.lesko@mibellegroupusa.com](mailto:tinamarie.lesko@mibellegroupusa.com)

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EXPERTIZE



BOTANICAL  
EXPERTIZE



BIOTECHNOLOGY  
& GREEN  
CHEMISTRY



MACRO-  
ENCAPSULATION



S  
O  
L  
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B  
I  
A

Your contact:

Mike Bekerejian - Account Manager  
[mike.bekerejian@solabia.com](mailto:mike.bekerejian@solabia.com)  
Phone: (818) 486-3626



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# REGULATORY UPDATES

## UNITED STATES:

### New Jersey and Hawaii introduced waste management bills:

- a. NJ-The Packaging Product Stewardship Act - Requires packaging producers who sell in NJ to develop comprehensive packaging stewardship plans. If approved, the plan would go into effect 18 months after approval.
- b. HI- 2 Bills that require producer of packaging of more than 10,000 metric tons or have gross sales annually of more than \$500,000,000 of “fast moving goods” to register with the Department of Health and pay an annual fee starting in Jan. 1 2023.




*Regulatory Chair -  
Ariana Farina*


## INTERNATIONAL:

### The European Chemicals Agency (ECHA) Updates


- a. 1,7,7-Trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one and any of its individual isomers and/or combinations has been added to the candidate chemical list of Substances of Very High Concern (SVHC).
- b. Eugenol (CAS: 97-53-0) and tetrahydrofurfuryl methacrylate (CAS: 2455-24-5) were recently proposed to ECHA for harmonized classification and labelling. Now it's open for a comment period for the public.
- c. Toxicity Testing - ECHA highlighted new advice for determining dose levels in toxicity.




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# HISTORIAN'S ARTICLE

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## BEAUTY LEGENDS OF THE WEST – MERLE NORMAN – 90+ YEARS OF BEAUTY PRODUCTS

*“Some people happen to be at the right place at the right time to become successful. A few have the ingenuity, skill, ambition and bravery to create the right time and place”. – Your Historian*



Historian - Erica Herrel

Merle Mozelle Nethercutt was born in 1887 on a farm in Logansport, Indiana. Growing up she was known for her curiosity, out-going personality and later for her low-pitched voice. After graduating high school, Merle attended Chicago University and then Teacher's College in the early 1900s. In 1912, while teaching, she met Andrew Norman – a suave newspaper man and real estate advertiser. They were married in 1913. Traveling the country, they decided to settle in Ocean Park, California in 1921.

Merle and Andrew never had children of their own. Merle's son passed away in infancy. Instead, they raised her brother's 3 children, after his wife passed away. One of the children, Jack Nethercutt (JB) became Merle's favorite, since he was born around the same time as Merle's son.

Always seeking to improve herself, Merle Norman began studying medicine and chemistry at a small private college. At the same time, she also experimented with various forms of cosmetics. The result was the creation of what Merle called “The three steps to beauty”. They were an all-purpose cold cream, Miracol (face mask), and a foundation called Powder base. All three products are still being sold today and have a faithful, cult-like following. The company's headquarters still has the original stove and broom handle Merle used to “cook” her beauty products.

Merle enlisted her husband's help as a salesperson to market the products and once sales began to exceed \$10 per day, she quit college and devoted her time exclusively to the business. In 1929, Merle received a telegram from Richard Hudnut, at one time one of the biggest names in cosmetics. Mr. Hudnut wanted to purchase her Powder base formula for \$50,000 (equivalent to half a million dollars today). This was an incredible amount of money. However, before the deal was struck, the stock market crashed and the great depression put a stop to the transaction.

True to her entrepreneurial spirit, Merle figured that if a large name in cosmetics was so interested in her products, she was going to make a business of her own. In 1931, with only a capital investment of \$150 and the moral support of her family, Merle rented a tiny studio at the corner of Ocean Park Avenue in Santa Monica. Her sales model was revolutionary at the time. It was called: “try it before you buy it”. She believed that if she could get clients to try the products, they would sell themselves. Even though the country was in the middle of the Great depression, Merle's business continued to grow.

After JB completed his first year at Cal Tech studying Chemistry, Merle convinced him to work for her full time instead of returning to school. His salary at the time was \$6 per week. JB poured his energy and creativity into the business, doing whatever hard work was needed to make the company successful. In 1933, he married Dorothy Skyes and Established Nethercutt laboratories, which took over manufacturing for Merle Norman Cosmetics. By the end of 1934, Merle Norman cosmetics expanded to 94 studios across the country.

Merle Norman was one of the pioneers for women owned businesses. In an era where women did not work outside the home. They were expected to be homemakers, raise kids and take care of the household. Merle give women the opportunity of opening their own business and becoming successful by their own right. She made the prospect of owning a studio very simple, by providing 3 weeks of training, a hug and a handshake. Before long, the company outgrew its location. Merle bought an old boarding house and converted it to a clean facility manu-

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## HISTORIAN'S ARTICLE CONT.

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facturing site. JB continued to be the manufacturer of all products, while Andrew Norman handled the business and sales area. As the business continued to grow, Merle started the concept of a national convention to help promote the business and create the feel of “one big family” with its staff and studio owners.

In 1950, Merle Norman cosmetics moved to its current location in Westchester, California. It was Merle’s love and concern for the well- being and success of her staff and studio owners that made her business model successful. The conventions were viewed as family reunions as well as business meetings. Many studio owners today are generational, family-owned businesses.

In the 1960s, after suffering the loss of her husband, brother and mother, Merle turned over the family business to JB. She passed away, February 1st, 1972, leaving a legacy that continues today with her nephew, Jack Nethercutt II and his wife Helen as the owners of the company.

Last year was the 90th anniversary of Merle Norman cosmetics. In my opinion, the company owes its success to the ability to change with the times and not be afraid to take risks. From making gun oil and army makeup for the soldiers during the Korean war, or more recently, making hand sanitizers for our studios, the company is not afraid to rise to the occasion and make changes based on current world events and on a smaller scale, creating new and innovative products.

Your historian is honored to be part of this legacy as the R&D manager for color and skincare at Merle Norman Cosmetics.

Erica Herrel

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# MEMBER SPOTLIGHT

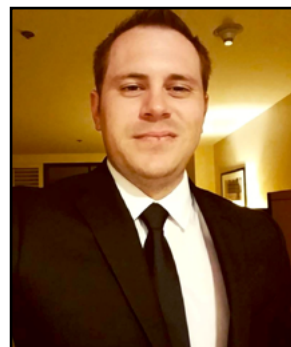
## JAY BILOTTA, REGIONAL SALES ACCOUNT MANAGER - GLOBAL INGREDIENT SOLUTIONS

### When did you join CALI SCC?

I joined in early 2019

### Could you describe your job?

I am the Regional Sales Account Manager with Global Ingredient Solutions, we are a provider of specialty actives and functionals with a focus on green, natural, and organic. I have the pleasure of working with brands, formulators, and manufacturers to help them create new, innovative, clean, and exciting products.



Previously I was on the manufacturing side at contract manufacturers such as McKenna Labs. Being able to move from different aspects of the industry has vastly increased my understanding of each side, while giving me more perspective. I truly appreciate the opportunities these companies have given me and hope to use this to help everyone I can.

### Which are your Cosmetic interests?

Clean and quality personal care and manufacturing are very important to me. Quality in both the formula and how the product is made really brings the best products to market. I think we have all been working towards having cleaner products and being able to rep products that fit in that category really makes me happy.

### Imagine you could switch jobs with someone for a day. What job would you like to try?

I would love to get the perspective of someone in charge of a brand that just took off. How do you handle trying to manage getting product in from manufacturers and out to customers, keep up with trends and stay ahead of the market movements, how to advertise and where to put your brand and more. The excitement and stress seems to be a wild ride.

### You are given the possibility to organize a dinner for 3 to 5 celebrities (alive or not). Who would you choose to invite?

I'm a sports fanatic and I would have to say Babe Ruth, Michael Jordan, Serena Williams, Muhammed Ali, Jim Brown. People who were or are top of their craft and ask how they got there. Everyone knows hard work pays off, but I would be dying to ask the little things they did that set them apart.

### Which invention would you have liked to be a part of?

Whichever one lets me retire young and just travel!

### Which is the next challenge you are facing?

We are expanding our library and I am learning new technologies. Although I have been in our industry for around 8 years, I am not a chemist. Learning these new technologies is a challenge not having the background, but I have an incredible team here and Yi Hsin Chang is an incredible person to learn from.

### Is there a country you ever have dreamed of visiting; for a holiday or longer?

I have had Italy on my bucket list for way too long and I cant imagine staying for less than a week.

### Do you have a motto?

Its hard to pick just one, but a couple of my favorites are: "Try not. Do, or do not. There is no try." This to me means you need to set out to accomplish your goals, not set out to see if you can accomplish them. "Never give up, never surrender." Kind of obvious what this means and I think both are a bit telling about what movies I watch.



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Kendall.Johnson@coola.com

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ainouye@charkit.com

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michelle.s.carrillo@gmail.com

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heathernaef@gmail.com

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eherrel@merlenorman.com

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dzehner@rossorg.com

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choang@cattech.com

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natalied@beautybrandarchitects.com

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Adamson Analytical Lab  
Jackie.sirois@tentamus.com

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Ariana Farina Consulting, LLC  
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Charkit Chemical Corporation  
ainouye@charkit.com

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Jamie Bradley  
D-D Chemco, Inc.  
jbradley@ddchemco.com

#### WEBSITE

Bruce Salgado  
Cosmetix West  
salgado\_\_50@hotmail.com

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Brittney Strickland  
BASF Corporation  
brittney.strickland@basf.com

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**Jennifer Lee Curtis** - Editor  
jcurtis@presperse.com

**Advertising inquiries to:**  
**Brian Kolivar** - Business Manager  
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