

COSMEGRAM

FEBRUARY 2023 • VOL 53 | ISSUE 2



MONTHLY MEETING - FEBRUARY 2023



360° APPROACH TO TOUCHABLE HAIR

Valerie George
Cosmetic Chemist, Science Communicator, and Educator
Simply Formulas

The hair care market is experiencing unprecedented growth, with post-damage hair treatments leading the way. Understanding what types of damage occurs in hair and how to develop effective conditioning strategies is a must for every formulator. Set the cetrimonium chloride aside and expand your toolbox of ingredients that Valerie loves (or develop a newfound appreciation for the ones you already use). We'll talk about the perception of hair health like you've never heard it before, leaving you feeling confident to formulate products that even a salon professional would approve of. Get ready for a 360° approach to hair conditioning!

Valerie George is a cosmetic chemist, science communicator, educator, leader and avid proponent of transparency in the beauty industry. She works on the latest research in hair care and hair color at Simply Formulas and is co-host of The Beauty Brains podcast. You can find her writing for her monthly column, Dear Valerie, in Happi Magazine, or posting on Instagram at @cosmetic_chemist. When she isn't working, Valerie serves as a renowned pizza critic in Los Angeles, where she resides with her husband, Mr. Cosmetic Chemist.

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MEETING DETAILS

DATE/TIME:

Tuesday - Feb 28th, 2023
5:00 PM to 8:00 PM

RESERVE NOW ▶

LOCATION:

Ayers Hotel - Manhattan Beach
1440 Hindry Ave
Hawthorne, CA 90250

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.

*Prices increase after reservation deadline • No refunds after reservation deadline
Walk-in space is not guaranteed*

MEET YOUR AREA III DIRECTORS!

Area Directors are elected members of the National Society of Cosmetic Chemists Board of Directors, the primary elected volunteer-led governing body of the Society. The Area III Directors function as elected representatives of the Chapters in the area, including California, Southwest and Intermountain West. Their role is to not only act as a liaison between the national office, Board of Directors, and the area's respective Chapters, but support Chapters in their initiatives throughout the years.



AARON PETERSON

Aaron Peterson is the senior Area III Director who hails from the Intermountain West Chapter. After 20 years in the industry, he has come to realize that his passion in life is for people and the connections they have. The SCC has been a vital part of his career and has added so much to his life. He is equally split between time in the lab and time in sales, and he loves them both for different reasons. He loves how global our industry is and yet how small and personal it feels. While he loves his work, it is only a portion of who he is. He is a proud father of four (2 girls, 2 boys) and has an incredible wife who is a creative entrepreneur. She inspires him to be his very best self and supports him in all that he does. As an Area III Director, he hopes to give back even a small portion of that which he has been given. Aaron says, "There is much to be gained through volunteering in regards to ones' personal character. Pursuing further knowledge and education in life also helps to build new neural pathways and

downplays the old adage that 'old dogs can't learn new tricks.'" The SCC fosters both volunteering and education which is why he supports this institution.



VALERIE GEORGE

The newly elected Area III Director is Valerie George. An award-winning cosmetic chemist, science communicator, educator, leader, and avid proponent of transparency in the beauty industry, she most recently worked on the latest research in hair color and hair care at a leading salon professional brand based in Los Angeles, CA. She has also served as Chair of the national Committee on Scientific Affairs, two terms as Chair of the SCC California Chapter, is recipient of the Chapter Merit Award, and is a two-time winner of the Chapter Best Speaker Award. With more than a decade of beauty industry experience, she is a contributing writer at Happi Magazine and the co-host of The Beauty Brains podcast. When Valerie isn't working or volunteering with the SCC, she can be found on Instagram at @cosmetic_chemist, or spending time with her loving husband, Mr. Cosmetic Chemist, at their home in Los Angeles.

They consider themselves part-time pizza critics, and also share a love for coffee. Valerie is most excited for this next chapter with the SCC and working alongside Aaron, because shares in his passion and support for the society.

CASCC 2023 BOARD



2023 Executive Board

2022 Past Chair	2023 Chair	2023 Chair-Elect	2023 Treasurer	2023 Treasurer-Elect	2023 Secretary
					
Margarita Gomez-Nadin Vice President of Sales Deveraux Specialties	Michelle Carrillo Vice President Actera Ingredients	Mason Montgomery Associate Director, Product Development Dr. Squatch	Diane Horne West Coast Key Account Manager LipoTrue	Nondie Breshears Senior Account Executive Ajinomoto North America	Kendall Johnson Sr. Manager, New Product Development Biossance



MEMBERSHIP DUES RENEWAL REMINDER - 2023

Hello fellow SCC members and friends,

We have over 900 members registered to the CA SCC!!!!!! If you haven't renewed, there is now a \$25 charge. If you have re-newed, the CASCC board has a lot planned for 2023. Check out the calendar and know that for every event you go to you will save lots of \$\$\$\$.

The quickest and easiest way to renew is online!

To pay online go to 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 www.sconline.org/registration and create your own.

BENEFITS OF MEMBERSHIP

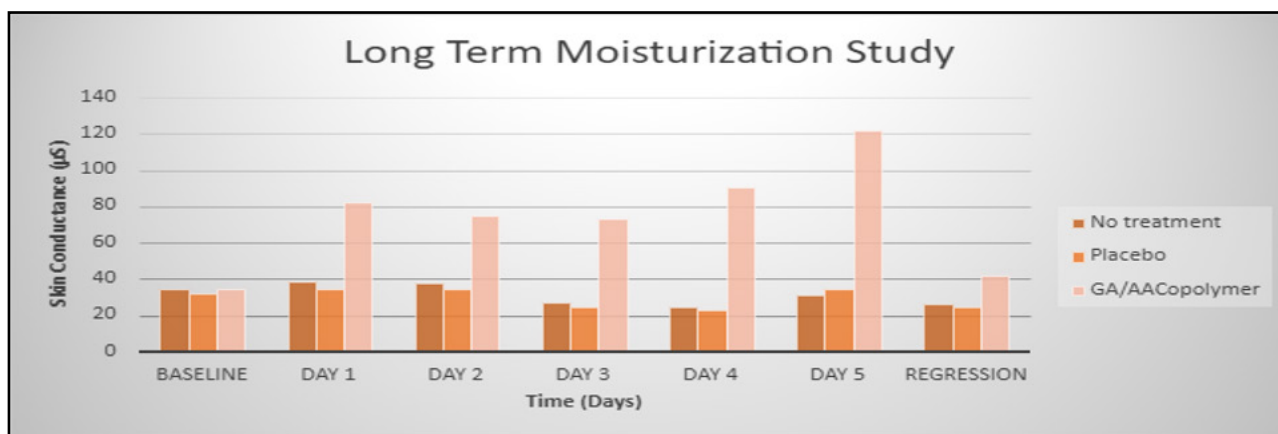
- You can attend the California Chapter meetings & all other chapter's meeting at the member rate.
- Attend almost all events at a discounted rate!
- Receive the Journal of Cosmetic Science complimentary
- Exclusive Membership Directory
- Complimentary membership in the International Federation of the Societies of Cosmetic Chemist (IFSCC)
- Check out more perks at www.sconline.org/Membership

TECHNICAL ARTICLE: WHEN WAS THE LAST TIME YOU REALLY LOOKED AT A SPIDERWEB?

Author: Donna Vigilante

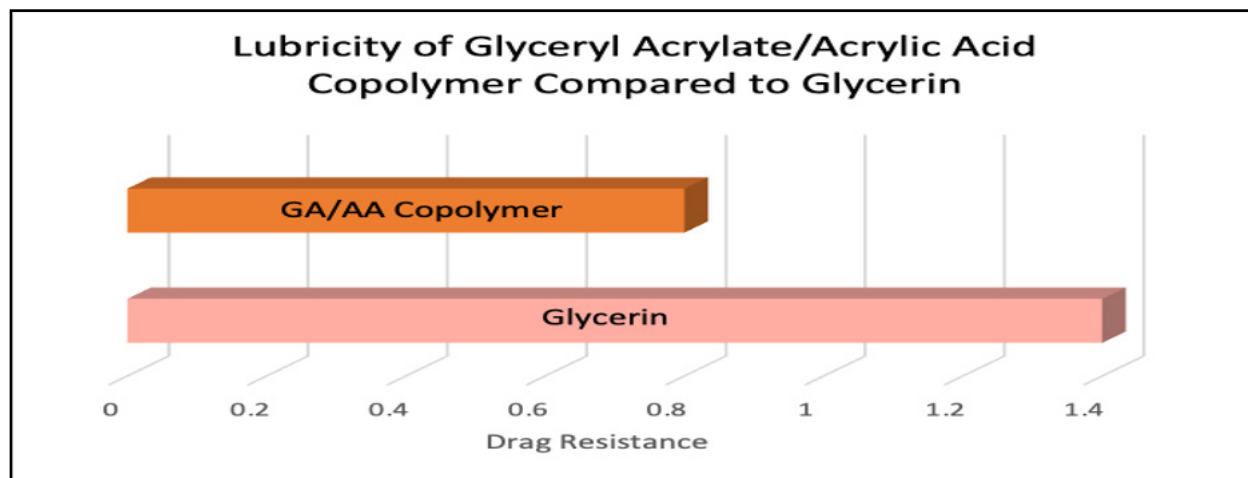
Did you ever notice how a spider web holds water after a rainstorm? And, how once you disturb the web the water is released? That is the principle behind the moisture matrix of glyceryl acrylate/acrylic acid copolymer technology. The moisture matrices created are called clathrates. A clathrate is a group of molecules enclosed within a cage from which they cannot escape until the structure is destroyed. When a series of cages are linked together a matrix is formed and with the addition of water, a moisture matrix is created.

Sounds simple but producing organic chemical structures that hold moisture is a challenge. A clathrate's water capacity depends on the size of the void in the cage molecule. The cage does not covalently bond with the water but holds it due to the combination of hydrogen bonding and van der Waals forces. The glyceryl acrylate/acrylic acid copolymer cage holds a remarkably high percentage of water. This leads to a moisturization quality far superior to classical moisturizing ingredients.



Glyceryl Acrylate/Acrylic Acid Copolymer provides significant increase in moisturization during treatment and after regression compared to placebo and untreated ($p < 0.05$).

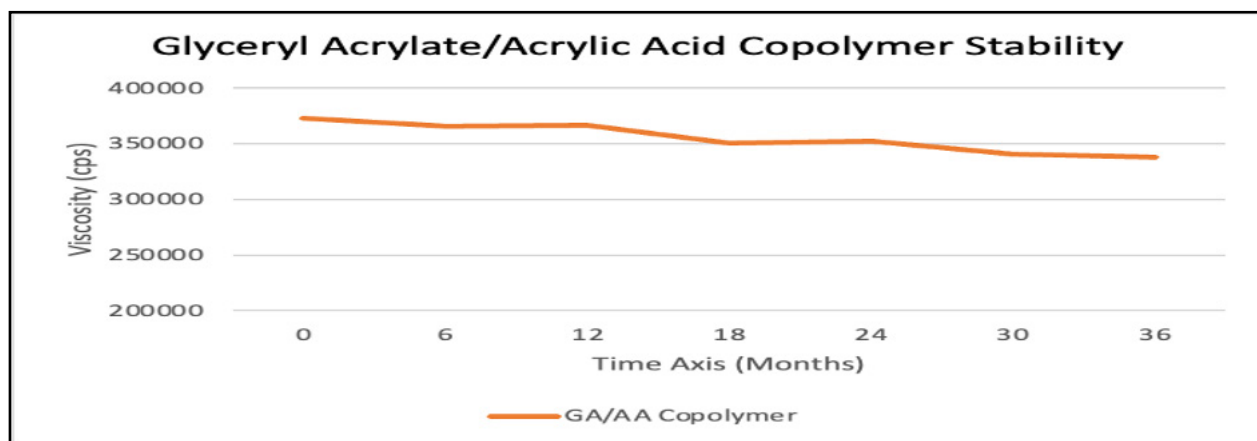
Glyceryl Acrylate/Acrylic Acid Copolymer is structured in such a manner that pH, ionic strength, surface moisture and temperature at the epidermal layer of the skin create a reversible clathrate. This reversibility brings about a moisture balancing effect. Rather than just rewetting or super fattening the skin, a reversible clathrate releases moisture where and when it is needed and avoids over moisturizing healthy skin. This occurs because glyceryl acrylate/acrylic acid copolymer products are skin activated. They are most effective in a pH range of 5.0 – 5.5, the usual pH range of skin.



Lubricity increases as drag resistance decreases.

TECHNICAL ARTICLE: WHEN WAS THE LAST TIME YOU REALLY LOOKED AT A SPIDERWEB?

Clathrates created from glyceryl acrylate/acrylic acid copolymer do not only work well on the skin. They also work inside your package stabilizing the emulsion. This stabilizing effect increases the shelf life of your product and ensures that it will look and feel the same each time your customer applies it. As you would expect from materials that help keep your product stable, glyceryl acrylate/acrylic acid copolymer is also stable. Research has shown the viscosity of this product to be very stable at various temperatures over time. Even after years, there is little noticeable change.



Glyceryl Acrylate/Acrylic Acid copolymer products come in a variety of grades and offer many benefits including superior moisturization, slip, lubricity, suspension, and exceptional after-feel. These products are easy to use and can be added during the water phase or post emulsion. They provide the formulator with flexibility to create their desired aesthetics in creams, lotions, foundations, face masks and more. Glyceryl Acrylate/Acrylic Acid copolymer products are non-oily, clear, water-soluble, cold processable, biodegradable, high in natural origin content, China listed, Halal and RSPO certified. So, only one question remains, where does your journey with glyceryl acrylate/acrylic acid copolymer begin?



Donna Vigilante is the Vice President of Research and Development at United-Guardian, Inc, a manufacturer of cosmetic and personal care ingredients. Donna has over 15 years of experience working in the personal care manufacturing industry and has held roles in both the quality and development departments. She has MEd from Dowling College and a BS in Biochemistry from Stony Brook University.



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MESSAGE FROM THE EDITOR

Hello fellow SCC members!

January was a busy first month of the year! Our fearless leader Michelle Carrillo has worked with the executive board to put together an amazing 2023 calendar and the 2023 board. There are still a few positions open, if you are interested in being on our board, please reach out to Michelle. We have been speaking, and Michelle is interested in having new ideas! So if you have areas you would like to see things change, it's time to volunteer.



Jennifer Curtis

Last month, the California Chapter of the Society of Cosmetic Chemist held our first board meeting immediately preceding the first chapter meeting at The Universal City Marriott. Michelle said that you should expect future meetings to have a more open format with plenty of time to network! Gone are the days of sit-down dinners, now you can chat for as long as you like and eat when you are ready! The board is working hard to bring 1 awesome speaker to each meeting. The board is investing in searching out relevant and knowledgeable topics so that if you attend a meeting, you will be able to take back valuable information to work the next day.

She wanted me to remind you of our chapter goals for 2023:

1. Increase membership

- Obtain 1,000 members by the end of the year.

2. Support Next Gen

- Improve overall student engagement
- Increase # of events that are 'student' friendly
- Increase student membership

3. Start an Internship/Mentorship Program

- Looking for companies willing to participate. With the growing activities of NextGen, students are constantly asking if there are any internship/mentorship opportunities. If interested, please contact chair@caliscc.org or any board member. Remember by giving your time to nurture fresh minds, you are literally building the future of our industry.

Pease read on in this Cosmegram! I am so happy to say we have a great Technical article submitted by Donna Vigilante from United-Guardian on how a copolymer can help to moisturize. Erica Herrel again has amazed us with her article on The History of Vitamins. Ariana Farina brings to life some regulatory information and find out the latest on our famous Dinner Dance and Supplier's day.

Have a great February and I look forward to seeing you at the meeting!



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Upcoming Events

February
28

CA SCC Meeting
@ Ayres Hotel,
Manhattan Beach / Hawthorne

March
21

CA SCC Meeting
@ Avenue of the Arts,
Costa Mesa

April
18

CA SCC Meeting
@ San Francisco Marriott
Marquis

May
23

CA SCC Meeting
@ Duke's Malibu

June
3

CA SCC Dinner Dance
@ Westin Anaheim

September
26

CA SCC Meeting
@ Avenue of the Arts,
Costa Mesa

October
25-26

CA SCC Supplier's Day
@ Long Beach Convention
Center

November
14

CA SCC Meeting
@ Ayres Hotel,
Manhattan Beach / Hawthorne

December
12-13

**SCC Annual Scientific &
Technology Showcase**
@ New York



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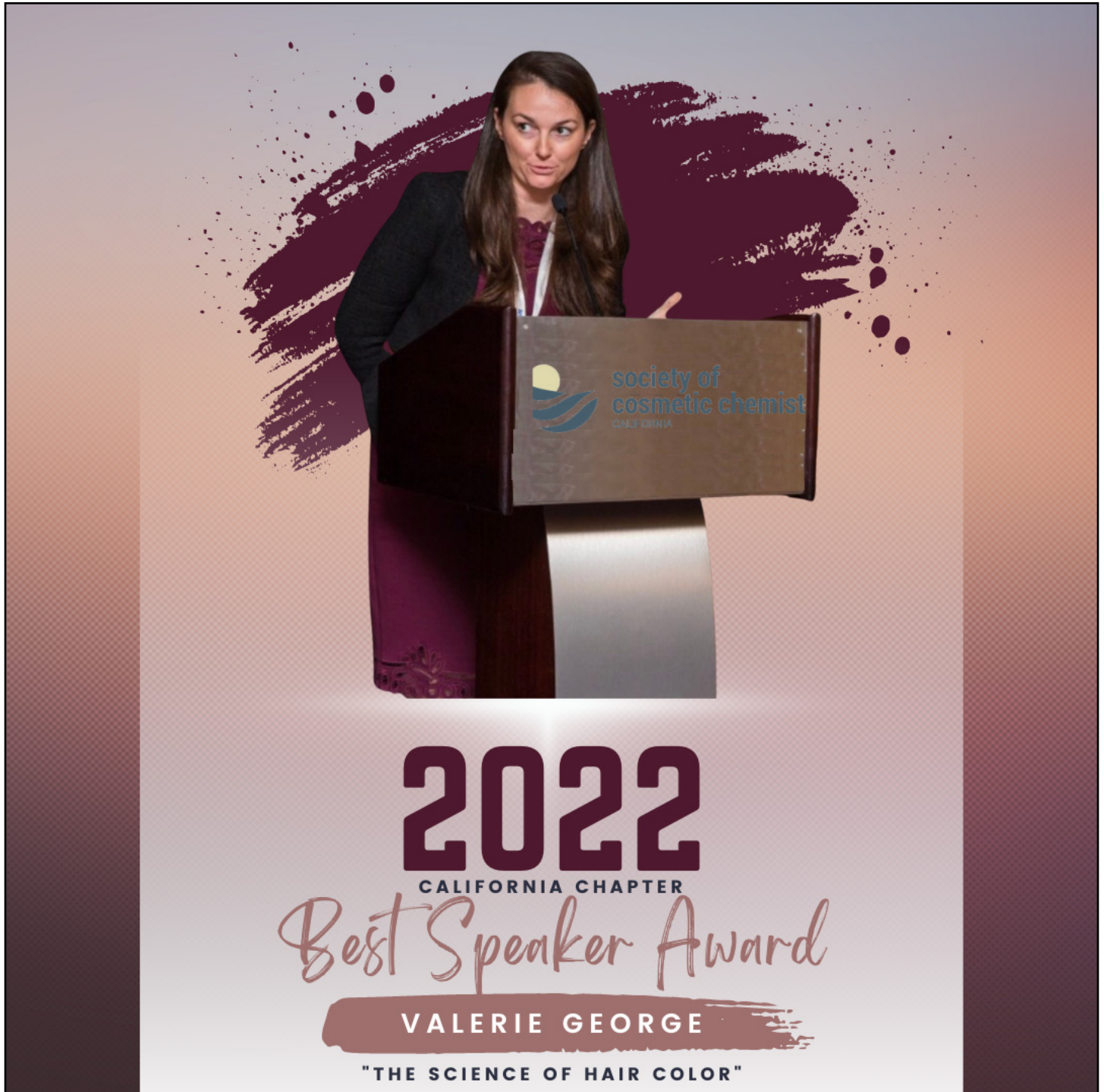
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2022 SPEAKER OF THE YEAR AWARD

The SCC Chapter Speaker Award was established to recognize a speaker for the best presentation at a Chapter event or meeting.





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.



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AREA III DIRECTOR II

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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,
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THE HISTORY OF VITAMINS

We all heard the saying: “An apple a day keeps the doctor away”. During the winter season when cold and flu viruses are most prevalent, we are all reminded to take our vitamin C and eat as much “Jewish Penicillin” or what my family called, Chicken soup. Did you ever wonder how vitamins were first discovered?

It is no surprise that food science was first to discover the many benefits of vitamins. I was surprised to learn that the actual individual vitamins were only recently discovered in the 19th century.

Chemists studying the composition of foods and nutrition requirements found that diets needed to include complex molecules, which included Proteins, fats, starch and sugar. All provided steady energy for a body to function. It is through observations that the first vitamin was discovered. Sailors spending weeks aboard ships with only dried foods (no refrigeration) were developing a disease called Scurvy. This disease affected the joints, creating weakness and pain. It also affected the teeth and the appearance of blood spots all over the body. If not treated, this eventually led to death. The treatment for this ailment was eating fruit and salad greens. Another similar affliction was also observed in Chinese diets that were mostly composed of rice and little else. As with Scurvy, when fed additional “acidic” fruit, the disease symptoms disappeared.



Erica Herrell

The first breakthrough in the science of nutrition was done by a doctor, treating patients in a Dutch colony in Java. His name was Christiaan Eijkman. He was assigned to study a disease called Beriberi, which caused leg weakness. He found that animals that were injected blood from soldiers who had symptoms of the disease, also developed the same condition. He also noted that this was only associated with cooked white rice that was also fed to the chicks as leftovers from the soldier’s meals. Brown rice, however, did not have the same affect. He suspected that the protective starch around the brown rice somehow protected the rice from going rancid. In 1895, Christiaan returned to Holland and discussed his findings with Adolphe Vorderman, medical inspector for 100 local prisons. A similar disease as Beriberi was also affecting the prison population, who were fed primarily a diet of white rice. The prisoners that were fed brown rice did not develop the disease. Eijkman was later awarded the Nobel prize for his discovery of Vitamin B1.

The name “Vitamin” was coined by another doctor from the Netherlands. Gerrit Grijns studied at the University of Netherland. His main focus of study was nutrition. He fed chickens autoclaved meat and noticed that they also developed similar symptoms as Beriberi. This proved that it was not starch but some other compound was responsible for the disease. When the chickens were fed natural food (un-processed) they recovered. This research created the “vitamin” concept, however the actual discovery of Vitamins did not happen for another 25 years.

Most of the critical Vitamin research and discoveries happened in the 1930s through the 1950s. Most of the findings were done by doctors studying diet and disease. There is a long list of Nobel Laureates found in the Nobel prize website. For example, Dr. Kenneth Carpenter, born in England in 1923. He received a PhD from Cambridge in 1948, and worked as a Kellogg Foundation fellow at Harvard uni-

THE HISTORY OF VITAMINS (CONT.)

versity. In 1977, he was appointed Professor of Experimental Nutrition at the University of California, Berkeley. His research focus mainly on the limited bioavailability of nutrients in foods, particularly Lysine and Niacin. One of his publications included the study of Scurvy and Vitamin C.

Since our focus is skin and hair, I would like to honor the next few articles to the vitamins that affect those structures. I will start with the crowd favorite, Vitamin C. This particular molecule was discovered by Albert Szent-Gyorgy, in the 1930s. As mentioned earlier, the deficiency in this vitamin was first noticed in Sailors. A British doctor, William Stark, is credited with the finding that adding citrus fruit to the sailor's diets, prevented Scurvy from affecting the crew. He is credited with eliminating Scurvy from the entire British fleet. At that time, he did not realize that the culprit was Ascorbic Acid, AKA Vitamin C.

Szent-Gyorgy, is a Hungarian born scientist. He came from a family of scientists and had a natural curiosity for discovery. His experiments were interrupted by WWI. He was fervently anti-war. He wounded himself to escape combat (shot himself in the upper arm) and returned to the University in 1917 to continue his research. In the course of his studies, he isolated a molecule from the adrenal gland that lost and regained Hydrogen atoms. Albert called it Hexuronic Acid. While studying cell respiration in plant, he noticed that this compound prevented the browning of the plants as a result of damage to the cellular structure. He called the process of browning, Oxidation. It was his research into citrus plants that discovered that browning was caused by Peroxidase, a plant enzyme. It was his later experiment on Guinea pigs and the fact that they also needed Ascorbic Acid to maintain health. The group of Guinea pigs that were fed food enriched with Hexuronic Acid flourished. The group that was deprived of citrus in their diet, developed Scurvy and died. In order to isolate Ascorbic Acid (the high levels of sugar in citrus fruits made isolation difficult), Albert used what every red-blooded Hungarian would use on a daily basis...Paprika!! His wife served him Paprika for dinner. He was not in the mood to eat it, so he decided to see if this plant also had a source of Vitamin C. By midnight on that night, he had isolated Vitamin C. In the next several weeks, Albert produced several pounds of pure Ascorbic Acid. And when fed to his Guinea pigs, it prevented the animals from getting sick.

The discovery of Ascorbic Acid is critical to the health and well being of not only internal structures, but also topically. The major obstacle however is that the stratum corneum is not efficient in Vitamin C absorption. The mechanism for absorption is facilitated by pH. (A pH of 4 is ideal). This Vitamin is responsible for many skin functions, including Collagen synthesis and prevention and repair of UV damage. However, the instability of the molecule when exposed to air, heat or light makes it difficult to add to typical formulations. In recent years, clever ingredient researchers created Vitamin C derivatives that are more stable and are able to readily permeate the skin. Also, the levels of effectiveness are much lower than the 20-30% required to see results with plain Ascorbic Acid.

The research on this amazing vitamin continues. It has potential benefits for wound healing and environmental/pollution defense. I can't wait to see what else we discover.

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Contact Tina-Marie Lesko for a consultative discussion
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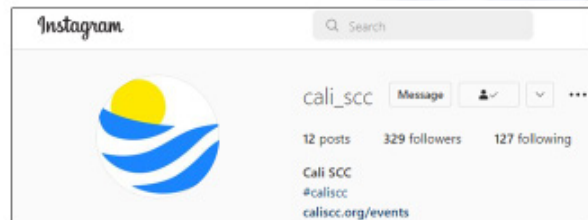
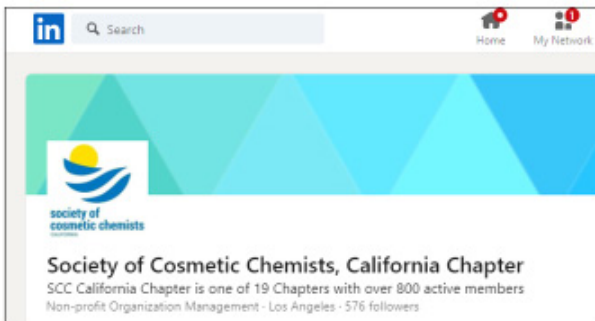
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REGULATORY UPDATES - BY ARIANA FARINA

UNITED STATES

FDA

- The Modernization of Cosmetics Regulation Act of 2022 (MoCRA). An overhaul of US Federal Regulation for Cosmetics, the first of its kind since 1938. It includes changes for Adverse Event Reporting/Record Keeping, Safety Substantiation, Good Manufacturing Practices (GMPS), Product Labelling, Recalls, Product and Facility Registrations, FDA authority, and more. It includes new responsibilities for suppliers, manufacturers, and brands/distributors.



Ariana Farina

CALIFORNIA

- Safer Consumer Products Regulations: New training materials are now available for how to comply once a priority product has been listed by SCP.

INTERNATIONAL

UNITED KINGDOM

- An extension has been granted for labeling of the UKCA marking until Dec. 31, 2024. And additional requirements related to the UKCA marking, UK RP information, and importer info. won't be required until Dec. 31, 2027, as long as the current required EU RP info. has been included.

EUROPEAN UNION

- The European Union has confirmed that Titanium Dioxide does not have intrinsic toxicity. The toxicity is linked to Titanium Dioxide of a respirable size in a particular form/state/quantity.



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