

COSMEGRAM

OCTOBER 2022 • VOL 52 | ISSUE 8



society of
cosmetic chemists
CALIFORNIA

EDUCATIONAL HOUR SPEAKER



BACK TO THE BASICS: FORMULATING FOR SKIN CARE WITH BIOACTIVE INGREDIENTS

Gabriella Baki, Ph.D.

Associate Professor, University of Toledo College of Pharmacy and Pharmaceutical Sciences

Skin care products represent the largest segment of cosmetic products on the market. Within this category, we have seen an increased demand for products with bioactive ingredients in the last few years, especially since the beginning of the COVID-19 pandemic as consumers have focused more on self-care. This presentation will walk the audience through the basics of product forms for skin care products and ingredient selection concepts. Special attention will be given to skin care products with bioactive ingredients. Bioactive ingredients, such as peptides, vitamins, antioxidants, and topical retinoids can fulfill several functions in skin care products, such as brightening, anti-aging, and moisturizing. For most bioactive ingredients to have the

desired effect when applied to the skin, they have to penetrate into the skin. The audience will learn about cosmetic delivery concepts when formulating with bioactive ingredients and will receive tips on how to optimize product performance.

ABOUT THE SPEAKER

Gabriella Baki is an associate professor at the University of Toledo College of Pharmacy and Pharmaceutical Sciences. She serves as the program director and main instructor for various lectures and laboratories in a unique undergraduate program, the BS in Pharmaceutical Sciences Cosmetic Science and Formulation Design major. It is the first and most comprehensive undergraduate program in the United States that focuses exclusively on cosmetics and personal care products.

Dr. Baki is a pharmacist, graduated in 2008 from the University of Szeged, Hungary; and she also has a PhD in Pharmaceutics from the same university. She has been a faculty member at the University of Toledo since January 2012. Dr. Baki's main research focus lies in the area of topical delivery for active ingredients and cosmetic actives, sensory testing of creams and lotions, as well as sun protection factor and broad-spectrum boosting technologies. Dr. Baki has made over a dozen technical presentations and written over 40 publications. She has contributed to a few book chapters and has a book, Introduction to Cosmetic Formulation and Technology, published by John Wiley and Sons.

MEETING OVERVIEW

Date: October 25, 2022

Time: 5:00 PM to 8:00 PM

Location: NOOR Hotel, Pasadena

Menu: Salmon, Chicken or Ratatouille

RESERVE NOW ►

Reservation Deadline: 5:00 PM Friday - Oct 21st, 2022

Reservation Link: 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:

NOOR
300 E Colorado Blvd Suite 200
Pasadena, CA 91101

COSTS:

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

MENU:

Entree Choices:

1. Grilled Salmon Filet
2. Frenched Chicken Breast
3. Classic French Ratatouille

Spring Salad – baby chard, baby red leaf, baby green leaf, baby oak leaf, baby arugula, baby spinach, baby butter lettuce, Persian cucumbers, vine-ripened tomatoes, and red onions with a dressing boat of our house-made balsamic raspberry vinaigrette.

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.

MEETING SPONSOR









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MEMBERSHIP DUES RENEWAL REMINDER - 2023

Hello fellow SCC members and friends,

We had a wonderful 2022 with almost 1000 Active Members this year!!! We have come back strong with monthly meetings that have exceptional content, an amazing Scientific Seminar and exceptional networking!! Our focus for this year and next is to bring you speakers that are relevant to our industry and can provide to you something tangible to take back to your workplace! This year the CA Chapter of the SCC is proud to be able to help bring the National SCC event to CA! What a wonderful experience this will be for so many that could not travel to NYC! Don't miss out on this event.

As we look forward to 2023- RENEW your membership early!!!! Normally national will launch a membership retain bonus and our goal is to win this! Therefore—RENEW early... do it now before companies want to hold off until 2023!!

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

RECAP: SCIENTIFIC SEMINAR

September 27th, 2022

In case you missed it, we just wrapped the CA SCC Scientific Seminar – our biennial scientific event featuring the latest in industry technologies, studies, and trends. And let me tell you, it was POPPIN'.

For the morning session, we teamed up with Valerie George, Owner of Simply Formulas and co-host of the Beauty Brains podcast, to moderate our Emerging Categories Panel. This year's directive was to focus on underserved hair and skincare concerns, and our speakers did just that. Janiene Luke, MD, board-certified dermatologist, opened the discussion with her presentation on skin issues in people of color and the subsequent treatments, giving prominence to proper suncare in melanin-rich complexions. Our second speaker, Dr. Ali N Syed, Founder and Master Chemist at Avlon Industries, explored new methods for objectively categorizing curly hair, which can ultimately determine what treatments are needed to maintain soft and aligned strands. Dr. Xi Huang, founder and president of FE:I Beauty Tech, closed the panel with a discussion on the correlation between menopause and skin iron content, effectively associating higher levels with skin aging.

In our afternoon session, Melissa Hago, VP and Creative Director of Beauty & Wellness at Fashion Snoops, brought the morning's topics to an even greater relevancy as she shared her trend forecast, highlighting industry shifts towards embracing melanin, textured hair, acne-positivity, and aging well.

Our keynote speaker brought the day of learning to a (white)head. Dr. Sandra Lee, internationally known as Dr. Pimple Popper, squeezed out some fun and wisdom for the crowd as she tested members with her "Popaholic Challenge," which consisted of six pimple and pustule-popping videos of increasing severity; those who were able to watch them all were deemed true "Popaholics". She went on to further explore her trials and triumphs as not only a dermatologist, but also as a TV star, taking the audience through her journey and how she got to be in front of them that day.



This year's Scientific Seminar was a true testament to the CA Chapter's desire for continued education and our chapter looks forward to bringing more educational opportunities to our members.

Your 2022 Scientific Seminar Chair,
Jamie Bradley



SCIENTIFIC SEMINAR

Thank you to our Sponsors



MESSAGE FROM THE CHAIR

Have you renewed your membership? What are you waiting for?

Welcome to Q4! We have worked so hard to make this a wonderful year for our chapter, and members. We have seen many changes so far, including many people adjusting to new roles, promotions, and changing jobs. I too joined the Great Reset and started a position with Deveraux Specialties. It is an exciting time for our industry.

In September we held the bi-annual Scientific Seminar at the Ave of the Arts in Costa Mesa. Attendees were welcomed with a fabulous donut bar and refreshments. We kicked the seminar off with our host and Scientific Seminar Chair, Jamie Bradley. She introduced the panel moderator, our very own Valerie George. Fun Fact: Valerie will assume the Area III Director role in 2023-2025!



The panel consisted of experts in their field with a theme of “Finding White Space in Underserved Consumer, Skincare or Hair Care Concerns”. Dr. Luke from Loma Linda University opened the panel with “Skin of Color: Key Concepts and Treatment Approaches.” Dr. Luke is also a member of the Society of Colored Skin. She discussed how is “skin of color” defined and the need to expand on the Fitzpatrick Scale. She discussed the science of skin of color by reviewing the amount, density, and distribution of melanin as the primary determinants of the variability of human skin color. Dr. Luke reviewed which ingredients are effective in targeting treatment of hyperpigmentation. She included the misconceptions of broad-spectrum sunscreens providing photoprotection against all wavelengths. You could hear a pin drop as she discussed the visible light and oxidation stress. Followed by Dr. Syed from Avlon Industries, who discussed “Curly Hair: Correlating Degree of Curl to Fiber Properties.” He expanded on the Andre Walker Hair Typing Systems, discussed the nuances of ellipticity, diameter, elasticity, strength, ease of combing & detangling, porosity, hair moisture, explaining the correlation between physical properties & degree of fiber curl. Dr. Huang with i-On Skincare was our third panelists with his talk on “Beyond Estrogen, Role of Iron and Postmenopausal Skin Aging.” He reviewed the gene expression profile in NHEK cells grown under pre- and post-menopausal conditions. It was fascinating to hear the inverse effect of iron and estrogen during those phases. Dr. Huang was nominated for a C&T Allès Award at this year’s Beauty Accelerate. Valerie moderated an in-depth Q&A post each lecture. The audience was engaged and submitted great questions that all attendees can benefit from.

Everyone was able to enjoy the sunny Southern California weather as we dined outside, under umbrellas for some shade. We resumed the day after lunch with Melissa Hago, VP Creative-Beauty & Wellness at Fashion Snoops. No stranger to our industry, Melissa continuously brings forward facing trends and market analysis to our industry. At the seminar she focused on “Emerging Trends Defining Personal Care”. It was cool to see the correlation between each speaker’s topic and the current emerging trends! Given the heavy impact marketing & trends have on product development, it is vital to keep our finger on the pulse.

Our Keynote Speaker for the day was Skin Physician & Surgeon Dr. Sandra Lee. Also known as Dr. Pimple Popper, Dr. Lee brought a refreshing approach to skin concerns to the average day consumer, shared digestible information with the masses, and creating a cult following for her informative videos. Her talk focused on “Democratizing Dermatology Through Social Media and OTC Skincare Formulation.” During her intro, she shared her background, how she became the expert in her field, and treated us to a series of videos!!! Dr. Lee included a review of powerhouse ingredients for treating acne; OTC, Rx, and office treatments. She reviewed melasma, hyperpigmentation, and recommended treatments. Dr. Lee emphasized there is no one-size fits all approach and diagnosis is important in understanding best method for treatment. Dr. Lee was generous in her time, taking pictures with every single person who waited in line. She was exceptionally gracious in her conversations with

MESSAGE FROM THE CHAIR CONT.

each person too!

We hosted a happy hour back outside afterwards with cornhole and some other games. Everyone seemed to be entrenched in conversations that the games seemed ignored.

The day of continuous education would not have been possible without our sponsors, volunteers, attendees, and the hotel staff for our full-day event. Special thanks to the companies who supported their employees attending our all-day scientific seminar! We appreciate you seeing the value in supporting our efforts to bring continuous forward-facing education to your teams. We hope to see you again at the Scientific Seminar 2024.

You may have gathered it is important to me to share updates on chapter board activities to keep you, our members informed. We continued with our behind-the-scenes responsibilities, as busy as ever at California Chapter of the Society of Cosmetic Chemists. Final preparations for the 2022 Annual CASCC & SCIFTS Golf Tournament held on October 3rd at San Juan Hills Golf Club. Beautiful course, lovely day, and everyone seemed to enjoy being back on the greens together. I enjoyed filling in as photographer for Catherine Hoang. She was busy hosting the activities. A special thanks to Rich Hersey, our Sports Chair, and his committee, Catherine Hoang, and Jared Johnson. The countless hours of preparation created a day everyone enjoyed immensely.

Another fun fact: We sold out for both the Scientific Seminar and the Golf Outing!

We are hosting an After Party during the National Symposium in December, and the October and November meetings. Check out our website periodically for more details: <https://caliscc.org/meetinginfo.php>

We continue to work on the 2023 speakers, dates, and venues. All the while emphasizing the necessity to stay within budget for submission. Election ballots went out electronically again, as we have hosted for the past couple of years. The preparations for Suppliers' Day 2023 are also well underway. Special thanks, Angie Inouye, our Suppliers' Day Chair, extraordinaire. Angie is stepping down as Area III Director at the end of the year. We are also working on the CEP course for next year.

Your feedback is important. During the year, I hear many suggestions on how we can create a more enjoyable experience for each of you. Starting dinner service earlier, expanding the happy hour, more panelists, specific topics of interest, the need for hands-on formulation courses, so many more suggestions. I am an open door. Continue to share your input, we take into consideration as we plan out future events.

Our board functions as a whole body, each contributing to the greater good for the chapter's goals. If I may, a special shout out to Bruce Salgado, our webmaster. He seems to touch every aspect of activities and does it with ease. Thanks to Mason Montgomery, Treasurer, and Diane Horne, Treasurer-Elect, for the constant review of expenses and keeping us within budget. Our Social Media Chair Brittney Strickland was busy keeping you all informed of the many activities!

A quick update on our 2022 goals "Continued Education".

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

We continue to advance resurrection of the extension courses through UCR. For those of you picking up your first issue of Cosmegram in a while, here is a little background. The goal of this program is to build the foundation

MESSAGE FROM THE CHAIR CONT.

for the first Cosmetic Sciences degree program located in the West Coast. Our initial idea was restarting the Extension Courses with a refresh to the curriculum, then expand to both a traditional student and non-traditional student bachelor's degree, and eventually create a master's degree program located in the West Coast. Continued progress towards establishing the scholarships.

The third goal is still a work-in-process. We need companies willing to host interns, we need a pool of mentors willing to give their expertise, and we need a method on how to connect them with the interns and mentees. How do we create access to mentorships and expand internship opportunities with the current chapter resources we have? We are reviewing what national, other chapters, and organizations offer for mentorships and internships. It is looking like this will roll into 2023 and we welcome your suggestions. Please send those to chair@caliscc.org for my review.

We are looking for additional volunteers for next year's activities. Would you like to help with the Dinner Dance or the Golf Outing? Maybe membership? It takes many volunteers, many of whom take up more than one role, and those volunteers who roll up their sleeves in an ad-hoc capacity.

What can you do to help?

- RENEW YOUR MEMBERSHIP! Update your contact information and sign up for emails.
 - o 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 Tuesday, October 25th at the Noor in Pasadena. You don't want to miss it!
- Follow us on social media.
 - o LinkedIn: <https://www.linkedin.com/company/society-of-cosmetic-chemists-california-chapter/>
 - o Instagram: https://www.instagram.com/cali_scc/

Visit National's website for additional information on other events and member resources.

- o <https://www.sconline.org/Events>

Please continue to join us on the journey. We hope you can see the reward in volunteering through our efforts and consider volunteering in the future. Your participation, engagement, and contributions to our society and industry matter. We cannot do this without you!

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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

- [October 25, 2022 – Noor Pasadena](#)
- [November 15, 2022 – Ayers Hotel LAX](#)

OTHER IMPORTANT DATES

- [2022 Annual SCC & SCIFT's Golf Tournament - Oct 3rd, 2022](#)
- [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.



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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

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Scale Up & Processing	Botanicals & Naturals for The Naturals Market	Preservatives
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Color	Molecular Biology & Gene Expression	Color & Make-Up
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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



2022 ANNUAL CASCC & SCIFTS GOLF TOURNAMENT



MONDAY, OCTOBER 3, 2022
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SCC NATIONAL WEB SITE - CAREER CENTER

LOOKING FOR A JOB?: Let the Society's recently launched SCC Career Center help. Search and apply to top cosmetic & personal care industry jobs at companies that value your credentials. SCC members gain access to job posts 3 DAYS EARLIER than others.

Visit <https://careers.sconline.org/> to view available jobs or post a job.

EMPLOYMENT OPPORTUNITIES



Cali SCC is committed to offering an effective platform for members to post open job positions directly on our website to assist with finding qualified employees to fill these positions. To view job listings or to add a position to our website, please visit our employment page.

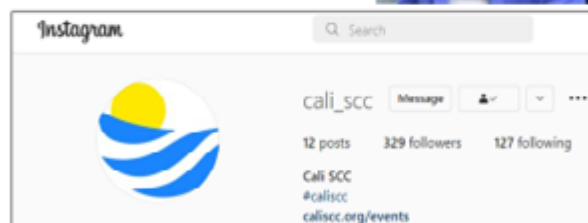
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- Full online access to the searchable digital library of every issue of the Journal
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www.sconline.org/membership

REGULATORY UPDATES - BY ARIANA FARINA

UNITED STATES

FDA UPDATES

- Recently issued warning letters for skin lightening products. They have also announced a public health campaign to warn users about the potential dangers of using skin lightening products that contain hydroquinone and mercury as lightening ingredients.



WASHINGTON

- New PCR Law- The Department of Ecology has started to issue invoices. Payment is due 30 Days after the annual invoices are issued.

BENZENE

- Bayer Healthcare must pay 2.3 million dollars in a class action suit. The products were labelled as “healthy, safe, pure, and simple.” But since contained benzene, these statements were determined to be misleading.

NATIONAL ADVERTISING DIVISION (NAD)

- Is holding lessons on developing testing protocols to back up claims.

PUBLIC ACCESS TO SUNSCREENS COALITION (PASS)

- PASS agrees that there is insufficient data currently for Sunscreen bans.

CALIFORNIA

- Prop 65: OEHHA announced the intent to list Trivalent Compounds of Antimony. Comment period is till Oct. 31, 2022. Also, OEHHA announced they will be meeting to discuss the listing of BPA as a Carcinogen.

INTERNATIONAL:

EU UPDATES:

Microplastics

- EU Cosmetic Regulation was updated to putting stricter restrictions on cosmetics, primarily microplastics. Currently it is only in draft open, and it is open for a comment period until Nov. 4, 2022.
- The EU introduced 56 new fragrance allergens. The updated regulation is currently in draft form and open for comment till Nov. 14, 2022.
- The finalized draft of regulation regarding use of CMR was issued. The newly issued regulation will come into effect December 17, 2022.

REGULATORY UPDATES CONT.

CHINA UPDATES:

- The Safety and Technical Standard for Cosmetics: China will be releasing an updated version of the 2015 version.
- China will be launching a Cosmetic Adverse Reaction Monitoring System.

CANADA UPDATES:

The Hotlist

- It was recently updated, so take a look to make sure you are still compliant. It's only a few ingredients, but be sure to double check it.

2023 SUPPLIER'S DAY - SAVE THE DATE!



SUPPLIERS' DAY EXHIBIT & CONFERENCE


OCTOBER 25TH & 26TH

2023


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MEMBER SPOTLIGHT

JOEL ST. JOHN, OWNER - LEFT COAST PROCESS

Where is your hometown?

Concord, New Hampshire

Where did you do your university studies? What was your major and why did you pick that field?

Keene State College- BA Chemistry. I Picked that field because I had a truly fantastic High School chemistry teacher that kept me engaged and excited about chemistry.



How did you get into the personal care/cosmetics industry?

I stumbled across it when I was working for a mixer Manufacturer as a process engineer. I learned that cosmetics and food are really similar in the industrial setting.

How long have you been in the personal care industry?

6 years.

Where do you currently work? What's your role? Could you describe your role?

I currently work for Left Coast Process which is my own company. I wear many hats but I spend most of my efforts working with companies to better their processes related to production, and filling.

What's your biggest career accomplishment to date?

Taking the leap and starting my own Business.

What is your favorite part of your current job?

Helping people make their business better and more profitable.

What is your least favorite part of your job?

Chasing accounting departments for payment.

What is the next challenge you face?

My biggest challenges are scaling my small business and reaching new clients.

What fall activities or events are you looking forward to?

Beach Days without tourists, paragliding and a Motorcycle trip with my dad in early November.

What is your favorite non-work-related activity?

Paragliding and Surfing.

What is the most interesting place you've ever been?

Carlsbad Caverns, NM. It's not the most exotic or exciting place I've been but it's incredibly beautiful and interesting. It's a long way from anywhere but it's worth checking out.

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

Richard Feynmann, J Edgar Hoover, Robert Goddard, Divinchi, Tony Stark

JOEL ST. JOHN, OWNER - LEFT COAST PROCESS (CONT.)

Give us one random fact about yourself.

I have logged over 12 hours of freefall (yes skydiving).

What advice would you give young scientists entering the personal care industry? Is there something you have learned along the way that you would like to pass on?

Not all education is in classrooms. Take some time to learn things that have nothing to do with your degree or your career aspirations. If something interests you, go learn about it. No knowledge or skill is useless especially if it interests you. Not all aspects of your job (especially early on) will be exciting or fun, but you have to stay motivated and keep learning even if it's outside of your career "path". Oh yea, there is no such thing as a career path. Go learn, find what interests you and keep an open mind.



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MEMBER SPOTLIGHT

GERRI WATSON, OWNER - ELITE FORMULATIONS

Where is your hometown?

New Jersey

Where did you do your university studies? What was your major and why did you pick that field?

Bloomfield College New Jersey (BS in Chemistry) I wanted to be a Scientist since the age of 8. LMU -Loyola Marymount University, (MBA). I always know that I will eventually own my own business.



How did you get into the personal care/cosmetics industry?

My oldest brother worked for a major company that made bar soaps and from an early age I was curious to know how you could use fats and lye to make soap. So, I did my research by reading Chemistry books and technical journals on how to make soap from the local library. I started to do my first experiments at the age of eight. (My mom was not happy with most of the outcomes.) That taught me to take notes, keep records, and be very observant. By the time I got to high school I excelled in the lab. Surprisingly my memory was off the chart. I could recall all the steps in the digestive process and chemical reactions for the experiments we did.

How long have you been in the personal care industry?

I have been in this industry for more than forty years. I have developed products for all the personal care categories, (Skin, Face, Hair, Sun, Color Cosmetics, Baby) as well as Home Care and Pet Care.

Where do you currently work? What's your role? Could you describe your role?

Could you describe your role? I just opened my own lab (Elite Formulation Labs, Located in Gardena CA. I am the CEO you can view by Bio on the website (www.Eliteformulations.co) . I Formulate Products for clients taking their concepts from the bench to the shelf/website, sometimes from the kitchen counter to scalable products. I also Consults on existing products that need to be upgraded or have process of formulation issues.

What's your biggest career accomplishment to date?

I have help numerous entrepreneurs start successful business the most recent ones are Rizos Curls, CURLDAZE, Righteous Roots and a few more are in the pipeline. I have also helped the business growth of my former employers such as: Unilever, Neutrogena, Murad and several small contact site manufacturers.

What is your favorite part of your current job?

The creative part, I love to be able to make products that surpass the expectations of my clients.

What is your least favorite part of your job?

Keeping up with all the new software, and social media.

What is the next challenge you face?

Making my business successful and creating a grassroots program to help pave the pathway for the next generation.

GERRI WATSON, OWNER - ELITE FORMULATIONS (CONT.)

What fall activities or events are you looking forward to?

I love going to Pumpkin Patches, driving through fall foliage. My son's birthday, and my birthday also take place in the fall, so celebrating that has always been fun.

What is your favorite non-work-related activity?

Reading, gardening, and walking my dog.

What is the most interesting place you've ever been?

Out of my many trips, India (the Taj Mahal), China (The Great Wall), Germany, Hawaii, and Jamaica are tied for the top spot.

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

Gandhi, Lincoln, Barak Obama, and Mother Theresa.

Give us one random fact about yourself.

I love to laugh

What advice would you give young scientists entering the personal care industry? Is there something you have learned along the way that you would like to pass on?

having fun and cannot wait to start your day, then this is not the field for you. You need to remain curious, read a lot, stay current, and be very observant. Keep good records. I am still having fun after 40 years and cannot wait to formulate my next product.





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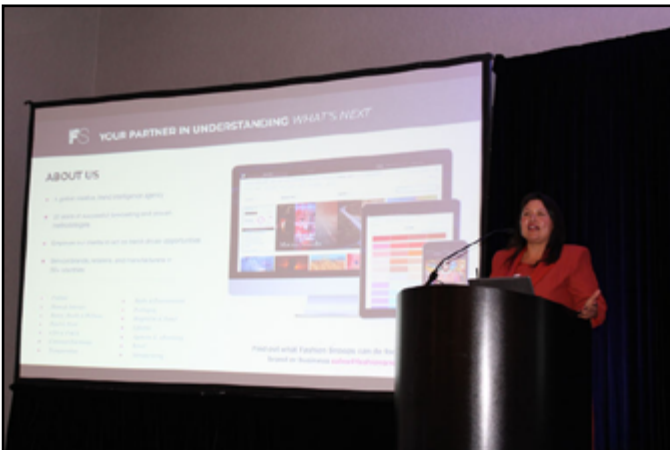
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LIPOSOMES IN COSMETICS: MYTH AND REALITY

Liposomes are systems able to encapsulate cosmetic actives. Because of their protection and vehiculation capacity, liposomes increase the effectiveness of the cosmetic actives.

TO START, A LITTLE HISTORY ...

The first liposomes were developed in 1965 in the University of Cambridge laboratories by Professor Bangham. His initial objective was to disperse lipophilic compounds (encapsulated in liposomes) in aqueous solutions.

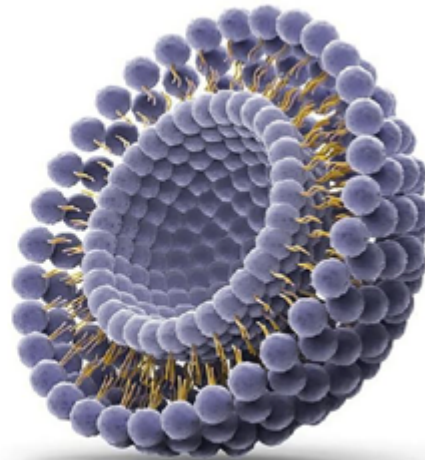
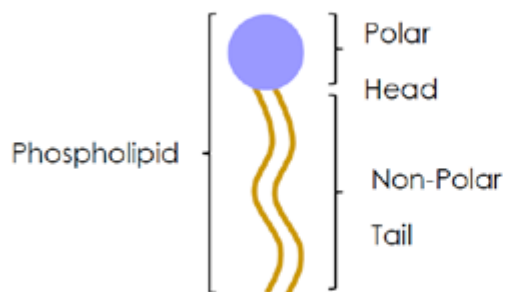
Later, in 1986, impressed by their results, the laboratories of Christian Dior decide to develop the first cosmetic product based on liposomes.

The presence of liposomes in other fields has grown year after year while they have evolved in the most innovative laboratories.

Liposomes are currently used in various fields, of which the most prominent are medicine, cosmetics and food.

WHAT IS A LIPOSOME?

A liposome is a spherical nanovesicle formed mainly by phospholipids, which adopt a lipid bilayer structure when they are in aqueous dispersions.



SO, IS IT A NANOMATERIAL?

No, according to EC Regulation 1223/2009 on cosmetic products. Although liposomes normally have sizes slightly larger than 100 nm (which would mean NOT NANOMATERIAL), even if they are below this size, they would still maintain their NON-NANOMATERIAL status, since they are soluble and biodegradable.

IS IT THE SAME TECHNOLOGY AS THAT OF THE '60S OR' 80S?

Absolutely not. Although the concept and the base (phospholipids) are similar, liposomes have evolved (and will continue to do so) in terms of composition and manufacturing methods, among others.

LIPOSOMES IN COSMETICS: MYTH AND REALITY (CONT.)

Such is its evolution that a large part of the new drugs which are being developed for the future are based on this technology. The current liposomes are quite different to those developed by Bangham in 1965.

WHAT ARE THE MAIN ADVANTAGES OF THE LIPOSOMES IN COSMETICS?

The most important advantages are the protection of the encapsulated compound, preventing its degradation, and the ability to transport and release it in the target layers of the skin, increasing its effectiveness.

Other advantages are the possibility of dispersing lipophilic compounds in aqueous phases and the masking of odors and colors, among others.

In addition, the liposome composition is, by itself, beneficial for the skin since it repairs the protective barrier and contributes to maintaining hydration.

ARE THERE SEVERAL TYPES OF LIPOSOMES?

Yes. Considering both its composition and its morphology, we can find many variants.

Regarding its composition, the fundamental compound is phospholipids. These compounds can be incorporated either using lecithin (which contains between 50-70% phospholipid mixtures) or using pure phospholipids.

It should be noted that there is a wide variety of phospholipids available for liposome development in cosmetic applications. Key parameters of phospholipids such as HLB (Hydrophilic-Lipophilic Balance), CPP (Critical Packing Parameter), the charge and nature of its polar group and the length and saturation of its non-polar tail must be taken into account for the development of an effective product.

In addition, the use of other compounds such as stabilizers (cholesterol is the most used) and, depending on the release strategy, other lipids such as ceramides, additives that improve the flexibility of liposomes or their penetration into the skin, and compounds that modify surface charge, among others, are highly recommended to achieve the best results.

Regarding their morphology, there are several types of structures depending on the lamellarity (number of lipid bilayers), their disposition and the size of the liposome, the most common being the following:

Where **SUV** (**S**mall **U**nilamellar **V**esicles) are small liposomes with a single lipid bilayer, **MLV** (**M**ulti**L**amellar **V**esicles), they are multilayer and the most used in cosmetics, **LUV** (**L**arge **U**nilamellar **V**esicles) are larger monolayer liposomes and **MVV** (**M**ulti**V**esicular **V**esicles) where we can find smaller liposomes trapped within larger ones.



SUV



MLV



LUV



MVV

LIPOSOMES IN COSMETICS: MYTH AND REALITY (CONT.)

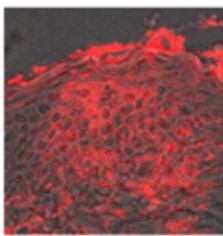
ON WHAT DOES THE SELECTION OF THE COMPOSITION OF THE LIPOSOME AND ITS MORPHOLOGY DEPEND?

The selection of the composition and other parameters related to its morphology (size or lamellarity, among others) depends on the compound to be encapsulated, on the skin layer where this encapsulated compound must be released and on the cosmetic product where liposomes will be dispersed.

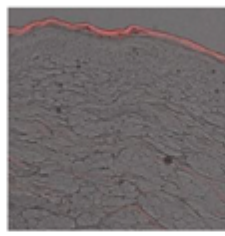
As example, for a surface delivery, large liposomes (MLV or LUV) are used, containing, in addition to phospholipids and cholesterol, other lipids which contribute to deliver the encapsulated compound on the most superficial layers of the skin.

On the other hand, for deeper deliveries, liposomes of a smaller size (MLV or SUV) containing compounds that improve membrane flexibility and penetration enhancers are the most common strategy.

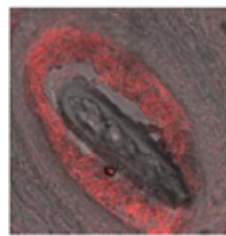
Different pictures of liposomes developed by Indermal used to deep, surface, hair and follicle delivery are showed below. The liposomes used in these experiments are marked with a red fluorophore (rhodamine) to track the penetration. Pictures show the great specificity of these systems reaching the target layer/area.



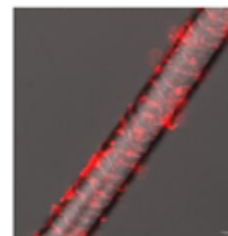
Deep Delivery



Surface Delivery



Follicle Delivery



Capilar Delivery

CAN LIPOSOMES ENCAPSULATE ALL KINDS OF COMPOUNDS?

Yes, the most of compounds can be encapsulated. There are logical limitations, such as the size of the compounds to be encapsulated (compounds larger than liposomes, such as probiotics, cannot be encapsulated).

Liposomes can encapsulate both lipophilic compounds (within lipid bilayers) and hydrophilic compounds (in the aqueous spaces in the center of the liposome or between the bilayers). Furthermore, compounds of different nature can be encapsulated: molecules, peptides, proteins or extracts, among others.

It should be noted that it is possible to encapsulate several of these compounds, even if they are of different nature, in the same liposome.

HOW MUCH CAN BE ENCAPSULATED?

The amount to encapsulate is a very important parameter to be considered, since it is closely related to the encapsulation efficiency.

Although each case is different, the concentration of the active to be encapsulated should be lower than 50% of the liposome concentration.

Exceeding this amount leads to low encapsulation efficiency and, therefore, the most of the active would be unencapsulated.

LIPOSOMES IN COSMETICS: MYTH AND REALITY (CONT.)

CAN LIPOSOMES BE ADDED TO ANY COSMETIC PRODUCT?

Liposomes are stable in aqueous media. This means that they can be added to any formula with an aqueous phase: gels, emulsions or double emulsions, among others.

On the other hand, liposomes should not be added in pure oily media, since because of the lipophilic nature they would dissolve.

DO LIPOSOMES RESIST THE CONDITIONS OF MANUFACTURING IN COSMETICS?

If liposomes have been developed using the right formulation and manufacturing process, they can resist:

- Aqueous solutions with detergents or with ethanol concentrations less than 20% (v/v)
- pH values ranged between 3 - 11
- Temperatures up to 78 °C
- High shear stresses (> 30,000 rpm)

IN BRIEF: LIPOSOME MYTHS AND REALITIES

MYTH	REALITY
<i>It is a nanomaterial.</i>	No, because it is biodegradable, soluble and normally greater than 100 nm.
<i>It is an obsolete technology.</i>	In 1989, 1,000 articles were published, in 1999, less than 2,000 and in 2019 more than 5,000. The drugs of the future will have this technology.
<i>They have not evolved since 1980</i>	It might be argued that the only common aspect regarding the 80's technology is the presence of phospholipids in the formulations.
<i>All liposomes are similar.</i>	Absolutely. As an example: There are more than 40,000 patents using different liposomes.
<i>Liposomes cannot penetrate the skin</i>	In addition to penetrate skin, liposomes can be developed to deliver the encapsulated compounds into specific layers of the skin



Daniel Pando, Ph.D.
pando@indermal.com

Daniel Pando is CEO and co-founder of Nanovex Biotechnologies and INdermal. He studied Chemical Engineering at the University of Oviedo and later obtained an international Ph.D. specializing in the design, development and manufacture of drug delivery systems for applications in medicine, cosmetics and food. He has completed his university education with several master's degrees in business administration, project management, process engineering and risk prevention.

Daniel has 14 years of experience in the field of drug delivery and has worked in various European universities specializing in the application of these systems to the skin, publishing several scientific articles and book chapters.

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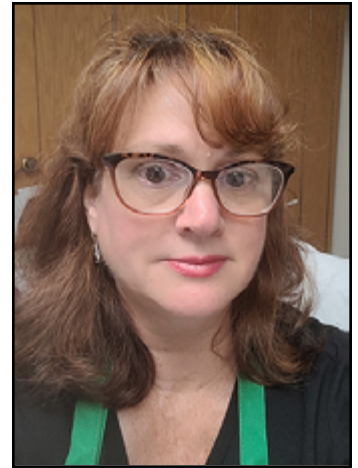



SUN PROTECTION – A BRIEF HISTORY

Did everyone enjoy our hot and humid summer? I know I did not!! I found myself applying sunscreen daily, which is not my normal habit, just to go for a walk. While smoothing the pasty white cream on my face, I was thinking about how did sun protection evolved over the years?

Thousands of years ago, as humans roamed the earth as hunters and gatherers, it must have been a challenge to be out and about in various degrees of nakedness. After some research and looking into archeological finds, it looks like the ancient humans used mud and animal fats as the first defense against the scorching sun.

The Egyptians used Rice, Jasmine and Lupine extracts to protect their skin, while the Greeks favored other natural remedies such as olive oil. Native Americans used sunflower oil. Well, with the short life span of our ancestors, they probably did not experience skin cancer to the degree it is very prevalent today.



Erica Herrell

Real sun protection came about in 1801. UV rays were discovered by a German scientist named Johann Ritter. His discovery made it possible to really understand how sunburns occurred. Using this information made it possible to create preparations that truly provide sun protection.

The first successful sunscreen was not created in the US. In 1932, a chemist named Milton Blake created the very first formula in Australia. The company he created was called Hamilton. This product is still sold today!!

The next country to introduce sun protection was France. The founder of L'oreal, Eugene Schueller, was on his boat and discovered that the oils he brought with him were not working to prevent sunburn. This inspired him to create his own sunscreen brand. This formula was created in 1936.

The mostly recognized “father” of sunscreen was Franz Grieter in Switzerland. In 1938, being a student and getting severely burned on a mountain climb, he was inspired to create a lotion called “Glacier Cream”. It only had a rating of SPF 2!!

Always late to the game, the US finally came on board. The first domestic brand of Sunscreen was created in Florida in 1944. It was called Coppertone. The original formula used red veterinary Petroleum, or Red Vet as the primary ingredient. This formula was used by soldiers during World War II.

The Mascot for the Coppertone brand is highly recognized as the Coppertone girl with a dog pulling down her bathing suit to show the tan lines. This super successful advertisement was launched in 1953 and it became an icon.

While on vacation in Hawaii in 1969, Ron Rice from Kentucky was inspired to create his own brand, using scents from the Tropics, utilizing Coconut oil as the key ingredient. His brand, Hawaiian Tropics was extremely successful. Everyone that lived in the 60 and 70 would instantly get a flashback to the Vanilla, Pineapple, Coconut scent when the brand is mentioned.

California was the first state to introduce FDA approved Water-resistant sun protection in 1977. The brand was Neutrogena. It only lasted for 40 -80 minutes before it had to be reapplied.

In 1978, the FDA first started regulating sunscreen products and establishing the SPF value rating. This rule was created to provide product safety to the customer and is still being revised today.

SUN PROTECTION – A BRIEF HISTORY

Zinc Oxide became a popular ingredient in the 1980s, due to the popularity of the surfing industry. We all remember the white noses of the dudes shredding the waves in Malibu. A brand like Zinka was highly popular with beach dwellers like lifeguards. The formula also came in gnarly colors like hot pink, teal, and other bright colors. Zinc Oxide was also approved by the FDA as a skin protectant for diaper rash and chapped skin. The term “Mineral Sunscreen” was created.

Other California brands entered the market in the 1980s, such as Bull Frog. This formula was created for athletes and had a light non-greasy feel.

In 1988 a very important ingredient entered the market. Avobenzone was the first sunscreen to protect the skin against UVB rays as well as UVA.

The 1990s, gave rise to other popular brands like Banana Boat and California kids, created by Jessica Iclisoy when she was pregnant with her first child. This was the first brand that claimed to be safe for babies and small children and people with sensitive skin.

As we know, the tide of sun protection is always changing. In 2018, Hawaii was the first stated to ban the use of chemical sunscreens like Oxybenzone and Octinoxate, due to the harmful effect on the coral reefs and other marine life. The industry is facing challenges today to create products that are both safe for the customer and the environment.

The latest development in this industry was the delisting of several key chemical sunscreens by the FDA from the safe to use category. Currently, the only safe ingredients are Zinc Oxide and Titanium Dioxide. Europe is even looking at the safety profile of Titanium Dioxide and potentially listing it as a carcinogen.

Despite the latest FDA ruling, our industry will continue to innovate and create safe and effective sun care products because unless a super volcano blows up, the sun is here to stay.



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mcarrillo@acteraingredients.com

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rhersey@ingsolutions.com

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Lubrizon
jennifer.curtis@lubrizon.com

EMPLOYMENT

Heather Naef-Owen
OLVEA
heathernaef@gmail.com

PHOTOGRAPHER

Catherine Hoang
Catalyst Technologies
choang@cattech.com

SUMMER EVENT 2022

Michelle Carrillo
mcarrillo@acteraingredients.com

COSMEGRAM BUSINESS MANAGER

Brian Kolevar
Coast Southwest, Inc.
bkolevar@coastsouthwest.com

HISTORIAN

Erica Herrel
Merle Norman Cosmetics
eherrel@merlenorman.com

PUBLIC RELATIONS

Natalie DiLallo
DiLallo Beauty Brand Architects
natalied@beautybrandarchitects.com

SUPPLIERS' DAY 2022

Angie Inouye
Charkit Chemical Corporation
ainouye@charkit.com

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Deveraux Specialties
Sandi@deverauxspecialties.com

HOSPITALITY

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Ross Organic Specialty Sales, Inc.
dzehner@rossorg.com

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Joel St. John
Left Coast Process
joel@leftcoastprocess.com
-and- Pria Maineri
priamaineri@gmail.com

WEBINAR

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

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choang@cattech.com

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stephenb@tcrindustries.com

REGULATORY AFFAIRS

Ariana Farina
Ariana Farina Consulting, LLC
afarina20@hotmail.com

WEBSITE

Bruce Salgado
Cosmetix West
salgado_50@hotmail.com

MEMBERSHIP CHAIR

Ava Bertrand Silvallana
bertrandsilvallana@yahoo.com

SCIENTIFIC SEMINAR 2022

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

SOCIAL MEDIA CHAIR

Brittney Strickland
Croda Inc
brittney.strickland@croda.com

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Jennifer Lee Curtis - Editor
(p) (310) 944-4380
jennifer.curtis@lubrizon.com

Advertising inquiries to:
Brian Kolevar - Business Manager
(p) (714) 904-6047
(f) (714) 524-8362
(e) bkolevar@coastsouthwest.com

Address changes and subscription inquiries to:
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