

# COSMEGRAM

JANUARY 2019 • VOL 49 | ISSUE 1



society of  
cosmetic chemists  
CALIFORNIA

## EDUCATIONAL HOUR



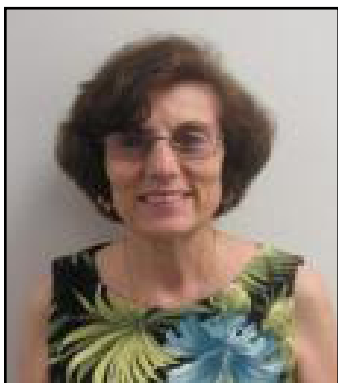
### SUBMICRON PARTICLES FROM LIPIDS AS ENHANCED DELIVERY VEHICLES FOR RETINOL

*Florence (Jonnard) Olechowski*  
*Cosmetics Division Manager of Berg + Schmidt GmbH in Hamburg, Germany*

Dermal active substances, in particular anti-aging ingredients, find frequent use in cosmetics for their beneficial effects on the skin. But they can only have these effects if they are bio-available. That means that the substance must efficiently penetrate the skin in a meaningful and effective concentration. Furthermore, the substance must be protected from degradation due to external influences such as light or oxygen, both as a raw material and in formulation. Retinol is a highly effective antioxidant and has long been known as an anti-aging ingredient.

...continued on page 3

## DINNER HOUR



### INTRODUCTION TO HAIR COLOR CHEMISTRY

*Bernadette Duffer*  
*Hair Color Lead Application Scientist, Croda Inc.*

This brief overview of hair color chemistry is ideal for anyone interested in learning about hair color formulation and technology. After a brief overview of hair anatomy and structure, Bernadette will review the differences between permanent, demi-permanent and semi-permanent hair color, components and ingredients, the color wheel and color from using cosmetologist language, the bleaching process, and manufacturing insights.

...continued on page 3

## MEETING OVERVIEW

**Date:** Tuesday - Jan 22nd, 2019  
**Location:** Ayres Hotel  
**Menu:** Salmon, Flat Iron Steak,  
Vegetable Napoleon

**RESERVE NOW** ►

**Reservation Deadline:** 5:00 pm Friday - Jan 18th, 2019  
**Reservation Link:** [www.caliscc.org/events](http://www.caliscc.org/events)

5:00 pm: Educational Hour  
6:00 pm: Social Hour  
6:30 pm: Dinner Hour and Speaker

[Meeting Details on Page 2](#)

Prices increase after Reservation Deadline  
No refunds after Reservation Deadline  
Walk-in space is not guaranteed

## MEETING DETAILS

### LOCATION:

Ayres Hotel  
14400 Hindry Avenue  
Hawthorne, CA 90250  
(310) 536-0400

### COSTS:

- Members with reservations (\$40)
- Members without reservations (\$65)
- Non-members with reservations (\$65)
- Non-members without reservations (\$70)
- Emeritus members with reservations (FREE)
- Emeritus members without reservations (\$65)

### MENU:

- Macadamia Nut Crusted Salmon  
*in a Lemon Herb Cream Sauce*
- Grilled Flat Iron Steak  
*in a Rosemary Port Reduction*
- Vegetable Napoleon  
*Vegetarian option*

### 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.

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However, its chemical instability makes it a challenge for formulators. Furthermore, in high concentrations retinol causes skin irritation and redness. Retinol can be stabilized to a substantial degree by embedding it in a semi-crystalline, unordered matrix of selected solid and liquid lipids in the form of submicron particles in an aqueous suspension. This also gives efficient, controlled penetration of retinol from the particles into the skin over a prolonged period, minimizing skin irritation. At the same time, with their effective adhesion to the skin, the lipid particles help restore the damaged skin barrier. This adhesive property also has the benefit of extending the release of retinol. The particles are in solid state at skin temperature and they are stabilized in suspension. This talk will update a presentation made at the 4th Annual Cosmetic Innovation Congress in 2016 which won the Award for best paper and will discuss both this and other delivery enhancement technologies for actives.

### ABOUT THE SPEAKER



Florence (Jonnard) Olechowski is the Cosmetics Division Manager of Berg + Schmidt GmbH in Hamburg, Germany. Prior to this position, she served as the R&D Manager for the Cosmetics Division. Prior to Berg + Schmidt, Mrs. Olechowski served in various capacities in the laboratories of Rhodia Solvay and Beiersdorf. She has spoken at several conferences about different delivery systems for cosmetic ingredients, including “New Generation of Advanced Dermal Delivery Systems” at Cosminnov’ in May 2016, “BergaCare SmartLipids - Commercial Lipid Submicron Particle Concentrates for Cosmetics” at Society of Dermopharmacy’s 20th Annual Meeting, and “A New High-purity Fractionated Sunflower Lecithin for Liposomes and Skin Repair” at In-Cosmetics 2013. Mrs. Olechowski studied at CPE, receiving a degree in Engineering, and performed an exchange during that time at Stockholm University, studying polymeric materials, microspheres for drug delivery, and cross-cultural leadership. She spends her free time working on philanthropic endeavors and enjoys traveling, sewing, and running.

### ABOUT THE SPEAKER



Bernadette Duffer has been in the cosmetic science industry for more than 30 years, 25 of which have been in developing retail and professional hair color products for major US hair color companies. Bernadette started her career at Redken before the L’Oreal acquisition, then served as a senior scientist at Revlon for 18 years, specializing in creating hair color and bleach products for domestic and international markets. Most recently, she is the hair color lead application scientist at Croda Inc. In this role, Bernadette presents hair color technology with hands-on training to many local and global hair color customers.

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- ▶ **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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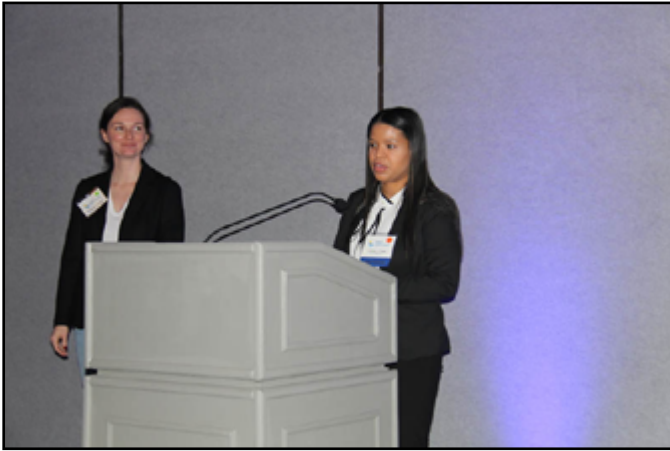
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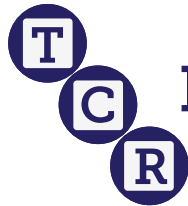
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# HISTORIAN ARTICLE

## WELCOME KENDALL JOHNSON!

We are pleased to welcome Kendall Johnson, Senior Chemist at Murad, as our new Historian!

Kendall earned a Bachelor of Science from the University of Oklahoma with a double major in Zoology and Chemistry. While in her undergraduate studies, she discovered her passion for laboratory work early on as an Undergraduate Research Assistant in the Zoology Department. Post-graduation, she was a Research Assistant designing experiments for the Psychology Department of the University of Texas Arlington, TX and practicing as a full-time Certified Nursing Aid.

Her transfer into the personal care industry began in 2013 at Coast Southwest in Dallas, TX as a Laboratory Technician. After two years at Coast Southwest, she transferred into contract manufacturing at Goodier Cosmetics as a Research and Development Chemist. In November of 2017, she relocated to Southern California for Murad as a Senior Chemist.



From Kendall: “Although I did not foresee a career in personal care, a passion now resonates in me for the industry and the work I contribute to. I have been a part of the CASCC for a full year now and would like to continue my involvement as Historian. Outside of work I am an avid golfer, culinary explorer and the life of the party.”

Keep an eye out for historian articles from Kendall in the upcoming issues of the Cosmegram!



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# NEW MEMBER SPOTLIGHT

## JANELLE BIEHL : PRODUCT DEVELOPMENT SPECIALIST/SMASHBOX COSMETICS

### INTERVIEW:

#### 1) Where is your hometown?

I grew up in Fleetwood, Pennsylvania & moved out to Los Angeles 3 years ago!

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

I graduated from Millersville University of Pennsylvania with a B.S. in Chemistry. I loved math and science growing up, so I wanted to pursue something in one of those fields.

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

I had a "just out of college" life crisis where I asked myself if I really wanted to work in a lab all day every day. I knew I loved pairing my technical/strategic thinking with creativity and big ideas. After a lot of searching I found something called product development, which sounded like everything I wanted rolled up into one. I chose to take a big chance and move to Los Angeles where I took courses at FIDM (Fashion Institute of Design & Merchandising) focused in beauty product development and marketing. After some networking, I was lucky enough to meet someone who would become my first boss and hire me in my first product development role in the cosmetic industry!

#### 4) How long have you been in the personal care industry?

3 years

#### 5) Where do you currently work? What's your role?

Currently I am a Product Specialist for Global Product Development at Smashbox Cosmetics

#### 6) What's your biggest career accomplishment to date?

This past year I was able to really focus and help lead complexion driven programs such as foundation, concealer, and primer. I'm really grateful for the opportunity to become more of an expert in these categories, so I can be a great resource for other teams in the company.

#### 7) What is your favorite part of your current job?

I love learning about new ingredients, how they work, and then brainstorming what new fun products we can create.

#### 8) What is your least favorite part of your job?

Sometimes you have to take your wild ideas and bring them back down to earth so they make sense to sell in the current markets – but you can always keep dreaming!

#### 9) If work wasn't an issue and you could go anywhere, where would it be?

No question I'd hop on the next flight to Costa Rica, explore the rainforest, and volunteer with a conservation or sustainability organization.

#### 10) What is your favorite activity outside of work?

Anything that involves spending time with friends who make me laugh.

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

I was lucky enough to take a trip to Scotland last year and spent some time in the Highlands. Mix mountains, waterfalls, and cows on the side of the road and it will give you the most beautiful, peaceful, and interesting place I've been so far!

#### 12) What advice would you give young scientists entering the personal care industry? Is there something you wish you had known when you were starting out?

Don't be afraid to reach out to people who are already in the industry to ask questions. I was lucky enough to reach out to someone with questions, who ended up hiring me in my first role in this industry. When I was young I was definitely more nervous and anxious about putting myself out there, but you never know who will respond and what advice or opportunities they may have for you. Always keep an open mind as well. I had tunnel vision early in my career, but when I opened my mind to the thought of different roles, industries, and ways of using my skills I was able to find even cooler opportunities!





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# REGULATORY ARTICLE

## HOW DOES BRAZIL AFFECT ME?

For companies wanting to grow, being aware of the laws enacted in the major markets – EU, Canada, Japan, etc. is a necessity. What you may not be aware of right now could have a major impact on your company's growth potential as your company looks to expand its markets beyond the US. In many cases, it's what you are not aware of that can upend the profitability of a product once you start selling it internationally. One of those impactful laws was recently enacted in Brazil and my guess is that most of our members have never heard about it.

A Biodiversity Law went into effect in Brazil on November 16, 2015, that was aimed at protecting the genetic heritage of Brazil. Brazil's rainforests and natural resources have been decimated to the detriment of the local population, so in an attempt to protect Brazil's people and its resources, as well as attempt to bring the benefits of the use of this genetic heritage back to Brazil, it enacted this law. The law includes all species of living beings, except humans. Animals, plants, microorganisms, viruses, algae, fungi, etc. are covered.

This law imposes fees on the use of ingredients that were derived from Brazil's genetic heritage – think Acai, Guarana, Camu Camu, or potentially the fragrance you are using. If you export a product to Brazil containing an ingredient that would fall under this law, you will be liable for fees. Even if you used a 3rd party distributor in Brazil, you as the brand owner will have responsibility. If you use a 3rd party turnkey manufacturer, you'll need the manufacturer to provide a statement as to the genetic heritage of the raw materials used in the product.

Think you're covered if it is a synthetic ingredient? Think again. Even though an ingredient may be synthetic, one of the source components could have originally been sourced from Brazil. It is essential you check with your supplier prior to using the ingredient in your product. Request a statement on the traceability for all the ingredients you are using.

When you are looking at new products, now is the time to start requesting information on the ingredient in terms of its genetic origin. If it is registered in Brazil, there will be a registry number that can be provided. If not, then obtain the scientific name of all materials that make up the ingredient do see if that species originated from Brazil. If you can't make that determination, you'll need to consult an expert to review the origins of the species to determine if it was Brazil.

If you do have an ingredient that falls under the Law, you may be obligated to pay the fee or what is called the "Benefit-Sharing" obligation. This fee can be up to 1% of the net revenues from the product and includes worldwide net revenue.

So as your company ventures beyond the US, make sure you consult experts for each market. Many of you will rely on distributors to keep you informed of the local requirements. But it doesn't hurt to do some research ahead of time so that you can create products that minimize your exposure to additional legal requirements.



### **DAN KOLHOFF / DIRECTOR OF REGULATORY AFFAIRS, JOHN PAUL MITCHELL SYSTEMS**

*Dan Kolhoff is an attorney with 20 years' experience with consumer product companies, handling international development and regulatory affairs. He received his undergraduate degree from the University of California, Santa Barbara and his law degree from the John Marshall Law School in Chicago. Dan has worked at Herbalife, Nestle USA, Murad, and Guthy-Renker and currently oversees Regulatory Affairs for John Paul Mitchell Systems. The scope of products he has worked on includes cosmetics, OTCs, foods, supplements, medical devices and consumer products.*

## INFORMATION FOR AUTHORS

The JOURNAL OF COSMETIC SCIENCE publishes papers concerned with cosmetics or the sciences underlying cosmetics, as well as other papers of interest to SCC members. In particular, the journal welcomes papers concerned with cosmetics, cosmetic products, fragrances, their formulation and their effects in skin care or in overall consumer well-being, as well as papers relating to the sciences underlying cosmetics, such as human skin physiology, color physics, physical chemistry of colloids and emulsions, or psychological effects of olfaction in humans. Papers of interest to the cosmetic industry and to the understanding of the cosmetic markets are also welcome for publication. The Editorial Advisory Board is responsible for establishing policy and maintaining the Journal's high standards. The Editor relies on the advice of reviewers who are experts in the field in deciding whether a submission has sufficient scientific merit to warrant publication.



All papers presented before a meeting or seminar of the SOCIETY OF COSMETIC CHEMISTS, or those papers submitted directly to the Editor will be considered for publication in the Journal. Papers presented before the SOCIETY OF COSMETIC CHEMISTS are the property of the SOCIETY and may not be published in or submitted to other journals. Only if the JOURNAL OF COSMETIC SCIENCE is unable to publish a presented paper, may it be published in another journal of the author's choice.

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The JOURNAL will consider manuscripts for publication in the following categories, provided they are prepared in proper scientific style and adequately referenced:

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5. **Letters to the Editor:** Comments on JOURNAL articles are invited, as well as brief contributions on any aspect of cosmetic or related science that does not warrant publication of a full-length paper in one of our other categories. May include figures and/or references, but brevity is necessary.

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## PREPARATION OF MANUSCRIPTS

Stylebooks for the JOURNAL OF COSMETIC CHEMISTS are the American Medical Association's *AMA Manual of Style* and the University of Chicago Press's *A Manual of Style*. Authors whose papers include figures should follow the section below on figure preparation.

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Organization should be thoughtful and not necessarily chronological. Unfamiliar or rare terms should be explained to make their meanings clear to all readers, especially those who are not well-versed in the language of the publication. Avoid all colloquialisms, jargon, and unusual abbreviations, and be as clear and brief as possible in the manuscript.

If you are not a native English speaker, we strongly recommend that you have your manuscript professionally edited before submission. Professional editing will mean that reviewers are better able to read and assess your manuscript.

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- (a) The initials and surname of each author.
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- (d) The volume number in bold face type.
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The following is an example of a correctly prepared journal reference; note all spacing and punctuation:

- 1) L. E. Gaul and G. B. Underwood, Relation of dew point and barometric pressure to chapping of normal skin,). *J. Invest Dermatol*, 19, 9-19 (1952).

Book references are handled similarly and should include pertinent page numbers:

- 1) S. Rothman, *Physiology and Biochemistry of the Skin* (The University of Chicago Press, Chicago, 1954), pp. 494-560.

References to books containing contributions from authors appear as follows:

- 1) S. D. Gershon, M. A. Goldberg, and M. M. Rieger, "Permanent Waving," in *Cosmetics, Science and Technology*, 2nd ed., M. S. Balsam and E. Sagarin. Eds. (Wiley Interscience, New York, 1972), Vol. 2, pp. 167-250.

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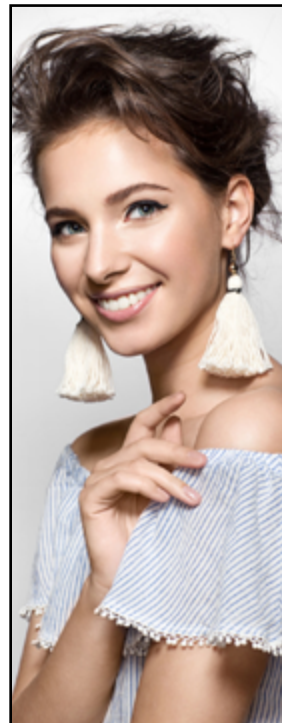


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## SCC MEMBERSHIP

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The California Chapter of SCC is a nonprofit membership organization with a focus on furthering the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetic and toiletries industry. By joining the Society, members can take advantage of many opportunities to learn, educate, and network with their peers. There are different levels of membership (see below for descriptions). We encourage you to find the one that is right for you.



### BENEFITS OF BECOMING A MEMBER

- Discounted rates to all California and National SCC functions
- California Chapter newsletter (Cosmegram) mailed and emailed, published 8 times per year
- Subscription to the Journal of Cosmetic Science, the National Society publication, published 6 times per year
- Updates on the newest technology
- Scientific Seminars
- Suppliers Day
- Networking
- Member discounts to IFSCC Conferences and Congresses

### TYPES OF MEMBERSHIPS

**General Membership** - General Membership is available to persons engaged in scientific or technical work in the cosmetics and toiletries industry or in related governmental or academic areas, who have earned a Bachelor's Degree in the chemical, physical, medical, pharmaceutical, biological or related sciences and technology. In addition, those working in a technical capacity within the industry for at least five years, who have completed two years in a recognized related academic program are eligible, as those who may lack sufficient academic background, but who have worked in a technical capacity in the cosmetic science industry for at least ten years.

**National Affiliation** - Available to persons interested in the objectives of the Society, but not qualified for General Membership. National Affiliates are entitled to all membership privileges, except that they may not vote or hold elected office within the Society or its Chapters.

**Junior Membership** - Available to persons who hold an appropriate undergraduate degree in science and who are pursuing a post graduate degree. Junior Members are entitled to all membership privileges, except that they may not vote or hold elected office within the Society or its Chapters. Half dues.

**Student Membership** - Available to fully matriculated undergraduate students in a scientific program at recognized colleges and universities. Student members are entitled to all membership privileges, except that they may not vote or hold elected office within the Society or its Chapters. Reduced dues.

**Emeritus Membership** - Any member who has reached the age of 65 years and who has been a dues paying member in good standing for 25 consecutive years may request to be nominated for transfer to Emeritus Membership status. Upon approval by the Board of Directors, such members shall be entitled to all privileges of a General Member for life, with exemption from payment of dues, except that they are not eligible for election as an Officer or Director within the Society.

**Retired Membership** - Any member who has retired from the cosmetic industry and is over 55 years of age, and has been a dues paying member in good standing for 15 years, may apply for Retired Membership status. Upon acceptance, Retired members are entitled to all privileges of a General Member, except that they may not hold elected office within the Society or its Chapters. Half dues.

**Fellow Membership** - General members who have achieved full maturity in the profession, as evidenced by a record of outstanding achievement and leadership may be elected a Fellow of the Society by the Board of Directors upon recommendation by the Fellow Certification Committee.

**Honorary Membership** - Granted by the Board of Directors to individuals for distinguished service to the Industry.

### HOW TO BECOME AN SCC MEMBER?

Apply Online at [www.sconline.org](http://www.sconline.org)

- Or -

Download [Membership Application](#) and complete and submit to the National SCC office (address and fax on the application). Please contact [Tina Marie Lesko](#), Membership Chair, if you would like more information about becoming an SCC member.

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