

COSMEGRAM

APRIL 2019 • VOL 49 | ISSUE 4



society of
cosmetic chemists
CALIFORNIA

EDUCATIONAL HOUR



NON-ANIMAL TEST METHODS FOR EYE AREA COSMETIC AND PERSONAL CARE SAFETY ASSESSMENT: HISTORY, PRESENT AND FUTURE

*Stewart Lebrun Ph.D.
Founder and Principal, LeBrun Labs LLC*

This talk will focus on how to determine if cosmetics and personal care products are safe for eye area application. This will include a brief background and then a technical presentation which will include: current available test methods including procedures, application domains and accuracy. We also will discuss the regulatory landscape for testing including the move away from animal testing.

...continued on page 3

DINNER HOUR



3D PRINTING FUNCTIONAL MATERIALS & DEVICES

*Michael C. McAlpine
Associate Professor of Mechanical Engineering, University of Minnesota*

The ability to three-dimensionally interweave biological and functional materials could enable the creation of devices possessing unique and compelling geometries, properties, and functionalities. Indeed, interfacing active devices with biology in 3D could impact a variety of fields, including regenerative bioelectronics, smart prosthetics, biomedical devices, and human-machine interfaces.

...continued on page 3

MEETING OVERVIEW

Date: Tuesday - Apr 23rd, 2019
Location: Universal Sheraton
Menu: Chicken Breast, Salmon
and Eggplant Melanzana

RESERVE NOW ►

Reservation Deadline: 5:00 pm Friday - Apr 23rd, 2019
Reservation Link: 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:

Sheraton Universal Studios
333 Universal Hollywood Drive
Universal City, CA 91608
(818) 980-1212

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:

- Garlic Rubbed Statler Breast of Chicken
Wild Mushroom Demi-glace
- Pan Seared Salmon
Sweet Ginger Soy Shal lot Sauce
- Eggplant Melanzana
Roasted Herb Tomato Coulis

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 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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ABOUT THE SPEAKER

Dr Lebrun earned his BA in Biology at UC San Diego and PhD at UC Irvine in Toxicology as well as being a Research Fellow at both Stanford University in Immunology and Oncology and UC Berkeley in Cell and Molecular Biology. The major focus of his research has targeted methods development in the areas of biochemistry, immunology, toxicology, and molecular diagnostics. As part of this work, I have studied the ocular toxicology and biochemical mechanisms of a variety of diverse test systems, which include *ex vivo* bovine, chicken, and rabbit eye models, and other eye irritation tests including those conducted using hen eggs (HETCAM and CAMVA tests) and differentiated epithelial cells (EpiOcular, Short Time Exposure test, and our own cell-based eye test that is in early stages of development). Overall, these studies have led to the hypothesis that the extent and type of initial chemical injury caused by specific water-soluble and -insoluble macromolecules accurately predict ocular irritation responses. My current work in this area has focused on translating this understanding to the development of more predictive methods for assessing ocular irritation potential. Such advances will enable the more rapid testing of substances in terms of their identification as ocular corrosives and irritants. He has held teaching and research positions for Miragene in Irvine, Ca. and at Long Beach City College as well as at Cal State Fullerton from 2001 to 2011 and has been Founder and Principal at LeBrun Labs LLC since May 2009 and works with Bio Screen testing as well. While an undergraduate at the University of California – San Diego, he became interested in the mechanisms of vision and was accepted to participate in the honors thesis research program. Stewart subsequently published a scientific article on the temporal properties of short-wavelength photoreceptors (“blue cones”): Stockman, A., MacLeod, D.I., & Lebrun, S.J. (1993). Faster than the eye can see: Blue cones respond to rapid flicker. *JOSA A*, 10(6), 1396–1402.

Biology, from the molecular scale of DNA and proteins, to the macroscopic scale of tissues and organs, is three-dimensional, often soft and stretchable, and temperature sensitive. This renders most biological platforms incompatible with the fabrication and materials processing methods that have been developed and optimized for functional electronics, which are typically planar, rigid and brittle. A number of strategies have been developed to overcome these dichotomies. Our approach is to use extrusion-based multi-material 3D printing, which is an additive manufacturing technology that offers freeform, autonomous fabrication. This approach addresses the dichotomies presented above by (1) using 3D printing and imaging for personalized, multifunctional device architectures; (2) employing ‘nano-inks’ as an enabling route for introducing diverse material functionality; and (3) 3D printing a range of functional inks to enable the interweaving of a diverse palette of materials, from biological to electronic. 3D printing is a multiscale platform, allowing for the incorporation of functional nanoscale inks, the printing of microscale features, and ultimately the creation of macroscale devices. This blending of 3D printing, functional materials, and ‘living’ platforms may enable next-generation 3D printed devices, from a one-pot printer.

ABOUT THE SPEAKER

Michael C. McAlpine is the Benjamin Mayhugh Associate Professor of Mechanical Engineering at the University of Minnesota (2015-Present). Previously, he was an Assistant Professor of Mechanical and Aerospace Engineering at Princeton University (2008-2015). He received a B.S. in Chemistry with honors from Brown University (2000), and an M.A. (2002) and Ph.D. (2006) in Chemistry from Harvard University. His current research is focused on 3D printing functional materials & devices. He has received a number of awards, including the George W. Taylor Award for Distinguished Research, the Presidential Early Career Award for Scientists and Engineers (PECASE), National Academy of Science (NAS) Kavli Frontiers Fellow, Extreme Mechanics Letters (EML) Young Investigator Award, SPIE Nanoengineering Pioneer Award, NIH Director’s New Innovator Award, Graduate Mentoring Award in Engineering, DARPA Young Faculty Award, National Academy of Engineering (NAE) - Frontiers of Engineering, Technology Review TR35 Young Innovator Under 35, DuPont Young Investigator Award, American Asthma Foundation Early Excellence Award, the Air Force Office of Scientific Research (AFOSR) Young Investigator Award, and the Intelligence Community (IC) Young Investigator Award.

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[VIEW/ADD EMPLOYMENT LISTINGS](#)

MESSAGE FROM THE CHAIRS

Spring is here and we are in full swing this year as a Society! With so many events coming up and exciting monthly meetings, we are sure you will find something that piques your interest this year. Our March meeting was held in Costa Mesa with 2 great speakers. Dr. Robert Graff from CHT spoke about new silicone combinations for cosmetics and Joe Dallal spoke about hair care formulating from concept to jar, what formulators really need to think about before, during and after. This month, we will be at the Universal Sheraton and we are looking to see you there.

Looking to the future, the **2019 Dinner Dance** is coming up soon!! Please register as soon as you can. Also, if you can donate any products to our famous swag bag we would be very appreciative. If you can sponsor this event with additional funds please contact Tiffany Jones; the SCC relies on this to make the event extra special!!

Summer Event: We took a poll at the last SCC meeting and sent out an email survey to our members. The event that is in the lead is Horse Racing at the Del Mar Race track. The dates we are looking at are: August 17th or 24th. Stay tuned for more information and sponsorship opportunities.

Elections: I know that we are just starting the year, but it is not too early to start thinking about helping the CA SCC chapter with your time and energy, by running for office. Timeline for Elections are as follows:

Candidacy interest submitted to National SCC Headquarters by August 30th. HQ Verification of eligible candidacy by September 30th:

National Elections: **Candidacy interest by April 30th.** If you are interested in running for a national office, please let one of us know and we will help you with the process.

Here is the Eligibility for each type of Election:

**For national election "eligible candidacy," you must be a general member in good standing for at least one year PRIOR to June 30th of the election year (e.g., in order to run in the 2019 elections for positions taking office in January 2020, you would need to have joined the SCC by June 30, 2018 to be deemed eligible; we strongly recommend that candidates serve locally in some leadership capacity before running for any national office).*

***For local chapter election "eligible candidacy," you must have been a general member in good standing of that chapter since at least June 30th of the election year (e.g., in order to run in the 2019 elections for positions taking office in January 2020, you would need to have joined the SCC by June 30, 2019 to be deemed eligible).*

Thank you for all you do for our California SCC and our National office! As a wise person put in his talk last month: "Raise the Bar: Pay it Forward!" – Joseph Dallal.

Your Chairs:

Tiffany Jones – CA SCC Chair – 2019, Jennifer Lee Curtis – CA SCC Chair Elect 2019



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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>

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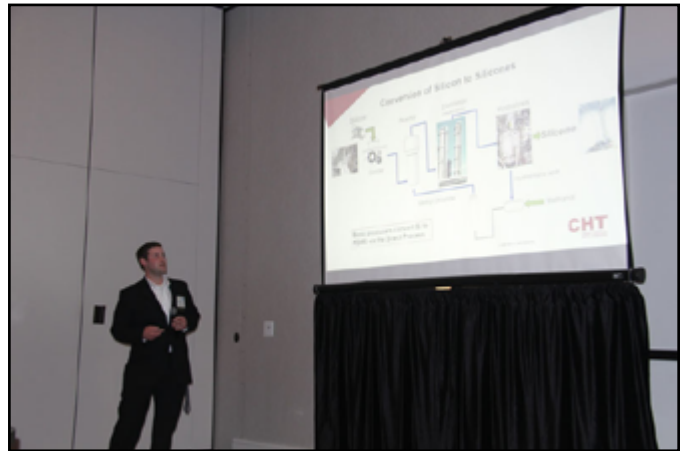
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When: October 2nd & 3rd, 2019

Where: Long Beach California

Events: Educational events, Key Industry Speakers, Technical Posters

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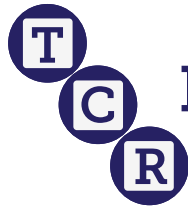
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HISTORIAN ARTICLE

BE BETTER TOGETHER

As skincare professionals, it is an inevitable fact that trends drive our industry. Whether we are trying to anticipate the trend, be the trend or follow the trend, trend movements are a driving force in skincare. Our industry has morphed through tanning oils in the 20's (yikes) into "hero" products with rich, velvety face creams in the 40's. In the 50's popularity increased with cleansing creams (shout out to Pond's!) and finally broad-spectrum SPF was introduced in the 60's to begin ground-breaking frameworks in skincare. Science-based skincare continued with acne focuses in the 80's, alpha hydroxy acids in the 90's and Botox in 2002, but in 2019 a new dawn is swiftly approaching for beauty and personal care brands with the buzz word being "Sustainability".

Kendall Johnson



Environmental awareness is a current lifestyle movement and has been for a while, but sustainability and the attempt at sub-zero waste are gaining steam in our industry. This trend does not only point fingers at packaging, even though some companies are looking to completely circumvent packaging all together, other departments play a large role as well. One key point to remember is being more sustainable does not mean compromising luxury, quality or prestige. Luckily this trend is becoming more "Instagram worthy" and fashionable to consumers by the minute. The people have spoken, and we must give the people what they want!

WHERE DO WE EVEN START?

Epigenetics is the study of change in gene expression. Without directly changing our underlying DNA sequences, varying Educating customers on recycling techniques is a great start, but we have an opportunity to dig into innovation with ways to upcycle, refill and increase product life. Consumers have voiced their ethical and environmental aspirations with skincare regimens and companies are becoming clever to appease. My favorite is Mascara Revival Drops. The residual amount of mascara that sticks to the sides of the tube leaves us holding on for dear life as we scrape every ounce onto the brush. Add a few drops, shake to revive your mascara and VOILA! Also, Pressed Powder Repair. Dropping your favorite pressed powder to its broken death is a nightmare. Customers can send in their broken compacts for a quick repress repair! La Bouche Rouge Lipstick Refills, sustainable hair salons, dual-use packaging are a few additional examples. Finally (and a bit of a stretch for my personal comfort) is Used Skincare. Resell, donate and recycle your used skincare products that have been abandoned on your vanity and people will use them as their own. Weird ... but sustainable!

WE GET THE IDEA ... BUT IS THIS REALLY THAT IMPORTANT?

Not addressing sustainability could have the potential to repel brands from this growing consumer group. As we continue to save lives one skincare product at a time, we must also save our planet in the process. Not only have we seen that it is "cool" to protect our planet, but sustainability is not just a trend, it is a mindset.

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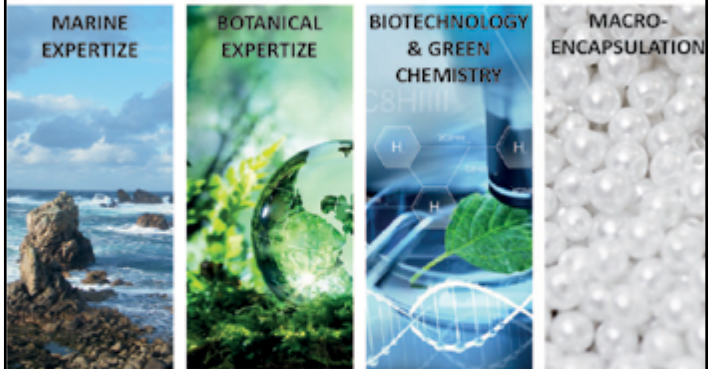
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DR. BRUCE KOVACS MD : CEO, AFECTA PHARMACEUTICAL

INTERVIEW:

1) Where is your hometown?

Seal Beach, CA

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

Undergraduate - California State University Long Beach CA: Chemistry & Molecular Biology

Graduate - CalTech: Molecular Genetics

Medical School - Keck School of Medicine at University of Southern California: Medicine

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

Several years ago a few colleagues and I were interested in applying genetics to discovering processes involved in complex chronic diseases we developed a novel technology to do that and started a biotech company (Afecta Pharmaceuticals) eventually we began working in the field of dermatology and from there became interested in the world of cosmeceuticals. We now have begun use our technology platform to develop novel scientifically based products.

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

I have been involved about 12 months however a few members of our management team have several years of experience.

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

I am the CEO of Afecta Pharmaceutical and also have small private medical practice.

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

Outside of my medical practice, I would say creating Afecta and discovering new treatments for patient groups underserved by "Big Pharma"; especially women and children.

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

The application of advanced scientific technology to create better medicines and personal care products.

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

Dealing with bureaucracy in various governmental agencies. You can probably guess their names.

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

I would be traveling the world to learn about how different cultures use cosmetics in their daily routine. Also eating a lot. I'd probably start in Europe first.

9) Winter is almost over! What spring activity or event are you looking forward to?

Enjoying our great outdoors and barbequing.

10) What your favorite non-work-related activity?

Enjoying our great outdoors and barbequing.

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

South East Asia

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?

Do good science. Trust your results. Believe in yourself.

If you have a good idea, don't give up on it and beware of advice from those who don't see it.





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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).

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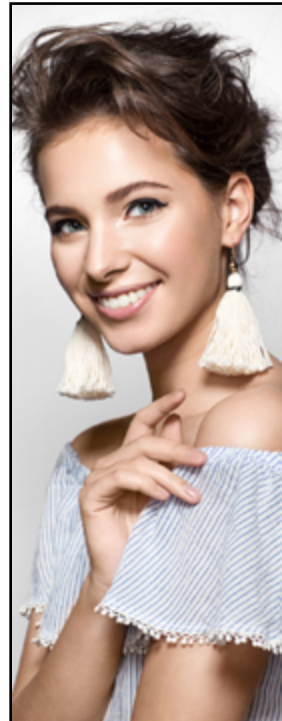
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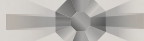
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The California Chapter of SCC is a nonprofit membership organization with a focus on furthering the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetic and toiletries industry. By joining 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

- 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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SCIENTIFIC SEMINAR 2020

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The Cosmegram is the official newsletter of the Society of Cosmetic Chemists - California Chapter. This newsletter is published as a service to our members. The subscription is included as part of membership dues. All rights reserved.

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