

# COSMEGRAM

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society of  
cosmetic chemists  
CALIFORNIA

## EDUCATIONAL HOUR



### ZOE DIANA DRAELOS, MD

*Private Practice/Consulting Professor of Dermatology at Duke University*

Zoe Diana Draelos, MD, is a research and clinical board-certified dermatologist and a Fellow of the American Academy of Dermatology. She is in solo private practice in High Point, North Carolina, and a Consulting Professor of Dermatology at Duke University. In 1988, she founded Dermatology Consulting Services, PLLC, to initiate and perform research in aging skin, acne, rosacea, psoriasis, atopic dermatitis, actinic keratoses, eczema, and aesthetic procedures in the cosmetic, OTC drug, and pharmaceutical arenas.

*...continued on page 3*

## DINNER HOUR



### DOUG SCHOON

*Creative Nail Design*

In this presentation, Doug Schoon uses 2D and high magnification 3D images to delve into the natural nail to explain its anatomy, growth and structure, as well as to discuss conditions that can affect nails. He'll also discuss common myths and misinformation that exist about nails, and explain what nails really need to be healthy and how to keep them good condition.

*...continued on page 3*

## MEETING OVERVIEW

**Date:** Tuesday - Sept 26, 2017

**Location:** Irvine Marriott

**Menu:** Atlantic Salmon, Seared Chicken  
and Vegetarian Risotto Napoleon

**RESERVE NOW** ▶

**Reservation Deadline:** 5:00 pm Friday - Sept 22, 2017

**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:

Irvine Marriott  
18000 Von Karman Ave  
Irvine, CA 92612  
(949) 553-0100

### 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:

- Wild-caught Atlantic salmon with California harvest seasonal fruit relish
- Seared free-range chicken with poached pears and Point Reyes blue cheese sauce
- Vegetarian risotto napoleon with roasted vegetables and marinara sauce

### 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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## EDUCATIONAL HOUR ...continued from page 1



Prior to pursuing a medical career, Dr. Draelos completed an undergraduate degree in Mechanical Engineering and was elected a Rhodes Scholar. A member of Sigma Xi research honorary and Alpha Omega Alpha medical honorary, she is author of 14 books including *Cosmetics in Dermatology and Hair Cosmetics* and *Cosmetic Dermatology: Products and Procedures*, as well as the editor of *Cosmeceuticals*, now in its third edition and translated into 5 languages.

She has contributed chapters to 38 textbooks, written 78 posters, served as the principle investigator on 505 studies, written 541 published papers, delivered 318 oral presentations, served on or contributed to 38 journal editorial boards, functioned as the editor-in-chief of the *Journal of Cosmetic Dermatology* for 10 years, and was a past member of the Board of Directors of the American Academy of Dermatology and the American Society for Dermatologic Surgery.

She was Vice-President of the American Academy of Dermatology. She is recognized as a pioneer in cosmetic dermatology and received a lifetime achievement award from Health Beauty America for her research and the 2008 DermArts award for her contributions to dermatology. In 2010, she received the Albert Kligman Innovation Award and in 2016 she was awarded a Presidential Citation from the American Academy of Dermatology for her research contributions to advance the specialty.

## DINNER HOUR ...continued from page 1



Doug Schoon is an internationally-recognized scientist, author and educator with over 30 years experience in the cosmetic, beauty and personal care industry. He is a leading industry authority, known for his technical and regulatory work that has helped shape the beauty industry. He is Co-Chair of the Nail Manufacturers Council (NMC), and as Creative Nail Design's (CND) Chief Scientist, was head of the R&D laboratory, QA, and Field Testing/Evaluation departments for almost 20 years.

Schoon has authored several books, video and audio training programs, as well as dozens of magazine articles about salon products, safety, and best practices for salon professionals. Schoon is well known for his captivating presentation style and his unique ability to make complex concepts easy to understand.

In 1986, Schoon founded Chemical Awareness Training Service (CATS) – the beauty industry's first safety training company. This was followed by his book, *Nail Structure & Product Chemistry*, 1st and 2nd Edition, which has become essential reading for nail salon pros. Schoon is a chief contributor to *Milady's Standard Nail Technology* and *Standard Cosmetology*, as well as several medical reference books such as *Baran and Maibach's Textbook of Cosmetic Dermatology* and *Cosmetic Dermatology: A Comprehensive Medical and Surgical Text*.

Schoon serves as an expert witness in legal cases, and doctors, dermatologists and podiatrists often consult Schoon when writing articles, books or scientific papers. He has worked as a scientific researcher, author and lecturer for almost 35 years and holds a Masters Degree in Chemistry from UC-Irvine. He currently resides in Dana Point, CA.

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## THE 2016 CHAPTER MERIT AWARD : VALERIE GEORGE



*Stephanie Leshney presents the 2016 Chapter Merit Award to Valerie George.*

The Chapter Merit Award is awarded to a Chapter Member for outstanding service, dedication and voluntary services over a period of time. A scroll is provided by National for presentation by the Chapter. Recommendations for this award originates with each Chapter and are submitted to the National Office.

The person nominated to receive the 2016 Chapter Merit award was Valerie George. Valerie has served as the 2016 Chair of our chapter, and was re-elected to be the 2018 Chair. Valerie started volunteering for the California Chapter as the webmaster, and took the lead in the website redesign.

Upon receiving the award, Valerie stated that she really loves the SCC and promoting the advancement of cosmetic science. This isn't just a job for Valerie, but her life, and she couldn't do it without the other members of the SCC.



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## 2017 Calendar

January 24th	Chapter Meeting	Manhattan Beach Marriott
February 11th	Dinner Dance Gala	The Disneyland Hotel
February 28th	Chapter Meeting	Sheraton Universal City
March 28th	Chapter Meeting	Manhattan Beach Marriott
April 25th	Chapter Meeting	Manhattan Beach Marriott
May 23rd	Chapter Meeting	Duke's in Malibu
June 27th	Chapter Meeting	San Francisco Marriott
July 29th	Summer Event	Marquis The Magic Castle
September 26th	Chapter Meeting	Irvine Marriott
October 12th	Luncheon Meeting	Phoenix, AZ
October 25th & 26th	Suppliers Day	Long Beach, CA
November 28th	Chapter Meeting	Warner Center Marriott



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# NEW MEMBER SPOTLIGHT

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### INTERVIEW:

**1) How long have you been in the Cosmetics/Personal Care Industry?**

Just about one year! I began in product development and am now a junior chemist.

**2) Where did you study? What major(s)?**

I graduated from UC Berkeley with a degree in chemistry.

**3) What is your biggest personal accomplishment/what are you most proud of since joining the SCC/industry in general?**

I am proud to have improved my formulation skills, especially lotions and creams.

**4) Special Interests/Hobbies?**

Traveling! I am actually answering this from Budapest, Hungary! I also enjoy hiking, being at the beach, and playing guitar.

**5) Hometown?**

Los Angeles, CA!

**6) One thing no one knows about you?**

I have a weakness for anything covered in dark chocolate.

**7) If you could take a vacation right now, where would you go?**

Next on my list is Peru! I would love to hike Machu Picchu.

**8) What sound or noise do you hate most?**

Fly buzzing

**9) What sound or noise do you love?**

Bicycle bells (reminds me of being on the boardwalk).

**10) What is your favorite word?**

Bedtime!

**11) What is your favorite TV show or book/periodical?**

Game of Thrones or Friends - depending what mood I'm in.

**12) Who is your favorite musician?**

Jack Johnson

**13) What is the strangest thing you've ever eaten?**

I love octopus!



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## TECHNICAL ARTICLE : USE OF SKIN DERIVED MATRICES FOR SAFETY, EFFICACY, AND TOXICITY TESTING OF COSMETIC PRODUCTS

Roberto Tolando Ph.D., Scientific Advisor, BioIVT

Skin is the largest organ and represents the body's protective surface as the first point of contact for topically-applied substances. It plays a key role in controlling not only the penetration and distribution but also the metabolism of topically-applied chemicals and is thus a first pass organ for penetrating substances.

This implies a need for a safety assessment for all cosmetic product ingredients. Appropriate models should also be employed to test chemical ingredients for their potential to cause skin irritation, sensitization, and genotoxic damage.

Animal testing was the chosen method for dermatotoxicological testing for decades.

But since March 2013, animal testing for cosmetics has been prohibited by the Seventh Amendment to the EU Cosmetics Directive. This mandate includes testing for skin irritation and genotoxicity. However, the scientific community anticipates that it will take up to 10 years to completely replace animal tests for skin sensitization, lung absorption or toxicokinetics (1). Furthermore, the time required to completely replace animal use for carcinogenicity and repeat dose reproductive toxicology studies has never been estimated (1).

The European Centre for the Validation of Alternative Methods (EVCAM) has validated various in vitro models for skin safety testing. These models are listed in Table 1 and their characteristics, advantages and limits have been reviewed by Almeida and collaborators (2). One of the drawbacks of cell line-based models is their limited retention of metabolic

capabilities as compared to naïve skin which can result in significant false negatives (2).

Keratinocyte-derived cell lines have been used to investigate the mechanisms of action of dermatotoxic compounds or to study the prevention of skin diseases (3-8), and could be an appropriate model for the evaluation of human metabolic inter-individual variability (9). However, immortalized keratinocyte-based monolayer models lack three-dimensional tissue (3D) properties and show an accumulation of spontaneous chromosomal aberrations. To overcome these limits, 3D human epidermal equivalents were developed (10-12). These 3D skin models consist of primary human keratinocytes grown at the air-liquid interphase and differentiated into a multilayered 3D tissue. This model has been examined for its suitability for genotoxicity testing (13-14).

A systematic assessment of xenobiotic metabolism capacities of monolayer cultures in comparison with human skin, 3D models, and human skin-derived microsomes and S9 fractions, indicates that reconstructed tissues retain xenobiotic metabolism capabilities at a comparative level to human skin (2 and 15-17). Therefore, 3D models are considered a valuable tool for dermatotoxicological studies (15-17), while use of simple monolayer cultures should be considered on a case-by-case basis. However for specific investigations or screening assays for metabolism and early toxicological evaluations, simple monolayer cultures coupled with data generated using human skin microsomes and/or S9, may represent a valid, cost effective and simple alternative.

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**TABLE 1 : IN VITRO VALIDATED MODELS USED FOR COSMETIC INGREDIENTS SAFETY EVALUATION**

(from Almeida A. et al. *Int. J. Pharmac.* 2017. 519:178-185).

		IN VITRO MODEL	MANUFACTURE	CHARACTERISTICS	OECD N.
Topical Toxicity	Eye	EpiOcular	MatTek Corporation	- 3D model - Non-Keratinized epithelium prepared from normal human keratinocytes	OECD 492
		HCE	Skin Ethics Laboratories (F)	- 3D model - Immortalized hu. corneal epithelial cells	
	Skin Irritation	EpiSkin	Skin Ethics Laboratories (F)	- Dermal substrate generated on type I bovine collagen matrix, rep. dermis, with a film of type IV human collagen, upon which is laid, after 13 days in culture. - All epidermal layer of native skin	OECD 431 (irritation) OECD 439 (corrosion)
		EpiDerm	MatTek Corporation	- Human epidermal keratinocytes as fully-differentiated epidermal tissue (fully-differentiated natural epidermis displaying a basement membrane, proliferating keratinocytes and a stratum corneum)	
		TER		- Skin from young rats	
	Skin Sensation	SkinEthic	Skin Ethics Laboratories (F)	- Normal human Keratinocytes cultured on insert polycarbonate filters	
		epiCS	Cell Systems (D)	- Normal human epidermal keratinocytes from a single neonatal donor supplied in 24-well formats	OECD 431
		Direct Peptide		- Haptentation process is reproduced in vitro	OECD 442C
		Reactivity assay KeratinoSens	Cyprotex, U.K.	- Immortalized adherent human keratinocyte cell line (HaCaT cell line), transfected with a selectable plasmid to quantify luciferase gene induction as a measure of activation of Keap1-Nrf2-antioxidant/electrophile response element (ARE)1	OECD 442D
	Phototoxicity	3T3 NRU		- Uses normal BALB/c 3T3 mouse fibroblasts to measure the concentration-dependent reduction in neutral red uptake by the cells after exposure to a test material either in the presence or absence of UVA light	OECD 432
System Toxicology	Carcinogenicity	BALB/c 3T3		- Based on the malignant transformation of immortalized embryonic mouse fibroblasts	OECD 451
		SHE		- Syrian hamster embryo cell	OECD 451
	Genotoxicity	Micronucleos Test		- During cell division, if a chromosome or a fragment of a chromosome is not incorporated into one of the daughter nuclei, as a consequence of genetic damage, a "micronucleus" it is formed.	OECD 487
		Endocrine System	Estrogen/androgen receptor binding		- Comprises two mechanistically and functionally similar test methods for the identification of estrogen receptor binders.
	Estrogen/androgen gene transactivation			- The assays are used to identify chemicals that activate the estrogen receptor following ligand binding, after which the receptor-ligand complex binds to specific DNA response elements and transactivates the reporter gene, resulting in increased cellular expression of a marker enzyme.	OECD 455
		Steroidogenesis		- In vitro screening for chemical effects on steroidogenesis, specifically the production of 17 $\beta$ -estradiol and testosterone.	OECD 456

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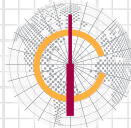
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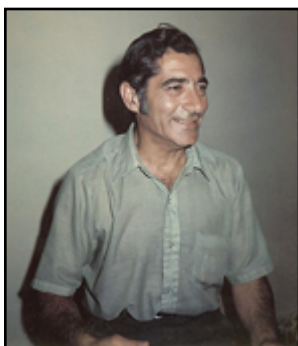
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## IN LOVING MEMORY OF GEORGE LIEBERMAN

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Once in a while it is good, especially for the younger members of our Society to delve into the annals of history in the hopes of learning about some of the members who has since passed on. One such person is George Lieberman, a distinguished innovative chemist from our chapter. George passed away in 2005 and I am sure anyone part of the industry

back then crossed paths with George, either at Lifetech Resources or at a monthly meeting. George rarely spoke about himself so when I sat down with his son Jeff, I was fairly surprised to hear about the life he lived. This is George's story.

George Lieberman was born in 1921 in New Haven Connecticut and grew up in New York City. Tragedy struck George early as both parents died by the time he was 11 years old. George was sent to an orphanage until he was placed in foster care. It was the 1930's and the depression was in full swing. George worked as a delivery boy during this time and then attended New York City College until he was drafted into the Army in 1941. George was sent off to Northern Africa into battle and was quickly made a squad sergeant. George help lead the invasion of Sicily and was also involved in the highly dangerous job of setting up the wire phone lines used back then to communicate during battle. George was a forward observer who ran the phone line

wire from the squad to the front lines where he would give the coordinates for mortar fire. Needless to say this was a highly dangerous and highly successful endeavor as they took out many enemy tanks.

George and his squad marched through Italy, to France, through the Rhine country and finally to the notorious concentration camp, Dachau. This was probably the most shocking part of the war for George as he eye witnessed incomparable incomprehensive pure evil. He was able to help communicate with the liberated Jewish prisoners as he spoke fluent Yiddish. After the war, George received his BS degree in chemistry and like so many other people, moved to California. He met his wife, Gloria working in the lab at Rexall Drugs in 1950 and they were married until his death in 2005. George also worked for Charles of the Ritz, Redken, Shacklee, Sun Laboratories and finally at Lifetech Resources with his son Jeff who is still currently working there. I met George in 1982 at Sun Labs, he was one of the first people I ever called on. I think he wanted to give the kid a break as he approved and bought hydrolyzed human hair keratin, the first product I ever sold! A few years after that, we were sitting under his desk holding hands. Yup, you read that correctly. In 1987 I was calling on George when the Whittier Narrows earthquake occurred. George said under his desk was the safest place as the lights were off in the building. It was pitch black so we held hands not to lose each other in the dark as we found the lobby. I would always tell people at a meeting when he was around that George and I held hands. He would just shake his head but wouldn't deny it!!! George was a good man, solid chemist and always fair. I am honored to have known him. George is survived by his four children, Jeffrey, Richard, Lee, and Kathy. Their mother, Gloria was reunited with George in 2015, they were married for 55 years. George may have left us but his memory is and should be preserved.

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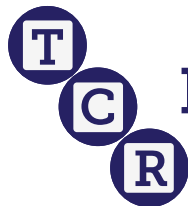
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All papers presented before a meeting or seminar of the SOCIETY OF COSMETIC CHEMISTS, or those papers submitted directly to the Editor will be considered for publication in the Journal. Papers presented before the SOCIETY OF COSMETIC CHEMISTS are the 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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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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- (f) Year of publication of the article (in parentheses); the month must be included for journals that do not use continuous pagination.

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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## 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
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### 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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