

# COSMEGRAM

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society of  
cosmetic chemists  
CALIFORNIA

## MESSAGE FROM THE CHAIR

I hope everyone had a very nice Thanksgiving Holiday! It is a great time to reflect on what we are grateful for. In my reflection on 2020 as the CASCC Chair, I can say I am grateful for our awesome board and technology.

We were successful and having 1 Zoom general meeting, 1 webinar-based meeting and 1 webinar-based technical seminar! Beside these, the board was able to meet several times, trying to figure out how to move forward during the COVID-19 pandemic.

Unfortunately, our last meeting of the year, was cancelled, but we were able to have our new board installed by Angie Inouye, Area III director, via Zoom. Please watch the recording on our website under the past events section!

As we start to move out of 2020 and into 2021, I would like to congratulate our new Executive Board! They have a challenge ahead of them to create a year that is full of education and fun events, still under the umbrella of the COVID-19 pandemic, but hopefully out on the other side too.

As you can see from the potential 2021 calendar, we have decided to keep the first four general meetings virtual. They will take place most likely on the 4th Tuesday of the month and toggle between a start time of 9:30 am and 5:30pm, to offer flexibility on attendance.

These meetings will last around an hour and the general format will be:

- Announcements
- 1 Main Speaker
- 1 to 3 Quizzes with topics based on our industry

The quizzes will come with some prizes, so it is worthwhile to attend the live meeting. If you cannot attend the meeting, we will be placing the recordings on our website. They will stay available for 6 to 12 months.

I am so grateful to have been the 2020 CASCC Chair and am happy to be a part of this society for many years to come!

Have a wonderful 2020 Holiday and an Awesome New Year!!

Cheers,

*Jennifer Lee Curtis*  
CA SCC Chair - 2020



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# CASCC TENTATIVE 2021 CALENDAR OF EVENTS

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## MONTHLY MEETINGS

January 26th 2021 Virtual Meeting –9:30am

February 23rd 2021 Virtual Meeting –5:30 pm

March 23rd 2021 Virtual Meeting –9:30 am

April 27th 2021 Virtual Meeting –5:30 pm

May 25th 2021: In-person Meeting – Duke’s Malibu 5:00pm

June 8th 2021: In-person Meeting – Avenue of the Arts – Costa Mesa

September 28th: In-person Meeting – Warner Center Marriott

November 16th 2021: In-person Meeting – Manhattan Beach Ayers Hotel



## OTHER EVENTS

CASCC Supplier’s Day – October 13 & 14th 2021 at Long Beach Convention Center

Summer Event 2021 – TBD

CEP Course – to be rescheduled for 2021

Golf Event – TBD

Dinner Dance – to return in 2022

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# NEW OFFICER INSTALLATION

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## CONGRATULATIONS TO OUR NEWLY ELECTED OFFICERS!

- Chair Elect – Margarita Gomez Nadin
- Treasurer Elect – Mason Montgomery
- Secretary – Jamie Bradley

Since we could not be together in person to transition the newly elected officers, we held the installation virtually on November 19th. To watch the recording, please visit the link below: <https://caliscc.org/events/117-2021-officer-installation>

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# MEMBERSHIP DUES RENEWAL REMINDER

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Please help the Cali SCC Chapter with our Membership Retention Drive! If 85% of our members renew, we will receive an additional \$1,000 from the National Society of Cosmetic Chemists over our base annual rebate. This could help provide a great speaker or venue for one of our 2021 meetings. Even better, if we retain 95% of our members, we will receive a FREE chapter Continuing Education Course to offer to our members!

Remember that your dues for 2021 should be paid by December 31, 2020 or you should resign your membership to avoid a \$25 late fee. If you do not resign and don't pay until the first notice is sent to you in 2021, there will be a \$50 reinstatement fee. This cost only covers you for the year that you pay.

If your company has a group of five or more members, you can contact Colleen Daddino, Manager of Membership and Chapter Relations, [cdaddino@scconline.org](mailto:cdaddino@scconline.org), for a group invoice. You may pay online or mail a check.

In addition to the promotion from National, our California chapter is doing a renewal contest of our own:

Renew your SCC membership today for the chance to win an Amazon gift card! We will be doing an opportunity drawing for two separate \$100 Amazon gift card for any California SCC member that renews before the deadline on December 31st. If you have already renewed your membership, you are already entered into the drawing and no action is required! If you have not, please renew before December 31st, 2020.

We know this year has been a challenging one for many and you've had to adjust to a new normal. Even during these times of change, SCC remains dedicated to its membership base and we're excited to continue to offer relevant and cosmetic science-based education for you.

## THE QUICKEST AND EASIEST WAY TO RENEW IS ONLINE!

To pay online go to <https://members.scconline.org/> Login using your email address. If you have not changed the password before, the default password is your first and last name initials (capitalized) followed by your membership number.

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# OCTOBER MEETING RECAP - KAHOOT! QUIZZES

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In case you missed the fun, we played three Kahoot! games during our virtual October Meeting. Play along here to see how you would have done at our live meeting via Zoom. The answers are listed at the end of the quizzes.

At the meeting, 3 quizzes were played and 1st place won a \$50 Amazon Gift Card, 2nd and 3rd won \$25 Amazon Gift Cards. If you like this, make sure to join us in 2021 for future quiz games and chances to win!

## QUIZ #1: "TEST YOUR KNOWLEDGE ABOUT THE CASCC"

1. Who was the chair in 2018?
  - a) Tiffany Jones
  - b) Jennifer Lee Curtis
  - c) Valerie George
  - d) Karen Chen

2. Who was the chemist behind “Advice to the Lab Lorn”
  - a) John Luna
  - b) John Garruto
  - c) Susan Raffy
  
3. Who received the Rober A Kramer Life Service Award in 2011?
  - a) Guy Langer
  - b) Rebecca James Gadberry
  - c) Robert Saute, Ph.D.
  - d) Don Katz
  
4. What was the Theme of the 2010 CA SCC Dinner Dance chaired by Susan Goldsberry?
  - a) 80’s
  - b) Eco-Chic
  - c) Hawaiian
  - d) 70’s
  
5. Who is the Current CA SCC Treasurer?
  - a) Ryan Kudla
  - b) Jennifer Donahue
  - c) Lily Guevara
  - d) Mason Montgomery
  
6. Who were the speakers for the January 2020 meeting
  - a) Ronie Schmeiz & Paul Malie
  - b) Tony Abboud & Dr. Karl Lintner Ph.D.
  - c) Susan Sperring & Sara Farahmand
  
7. Where is the annual National SCC meeting held?
  - a) New Jersey
  - b) New York
  - c) Florida
  - d) California
  
8. In what year did the Cosmegram start to be stored on [www.caliscc.org](http://www.caliscc.org)
  - a) 2000
  - b) 1999
  - c) 2006
  - d) 2020
  
9. When will the next CA Supplier’s Day be held
  - a) November 10th & 11th 2021
  - b) October 13th & 14th 2022
  - c) December 1st & 2nd 2022
  - d) October 13th & 14th 2021
  
10. Who is the sponsor for the October meeting?
  - a) RAHN
  - b) Croda
  - c) Presperse
  - d) DD Chemco

## QUIZ #2: "TEST YOUR KNOWLEDGE ABOUT FORMULATIONS"

1. When are preservatives typically added to a hot batch process?
  - a. At any time
  - b. At the very beginning
  - c. Towards the end of the batch
  - d. Hot batches don't require preservatives
2. Which of the following is not a surfactant-based product?
  - a. Shampoo
  - b. Deodorant
  - c. Soap
  - d. Micellar Water
3. True or false: Petrolatum is an occlusive ingredient.
4. True or false: Beeswax has a lower melting point than Cocoa Butter.
5. Which of the following is not an OTC product?
  - a. Antiperspirant
  - b. Skin Protectant
  - c. Acne Face Wash
  - d. Nair
6. True or false: In an Oil-in-Water emulsion, water is the continuous phase.
7. Which of the following products is most likely to not require preservatives? (C)
  - a. Conditioner
  - b. Lotion
  - c. Beard Oil
  - d. Sunscreen

## QUIZ #3: "TEST YOUR KNOWLEDGE ABOUT COSMETIC CHEMISTRY"

1. All of the iron atoms in this pigment are in the +3 oxidation state:
  - a) Black iron oxide
  - b) Red iron oxide
  - c) Ferric Ferrocyanide
  - d) None of the Above
2. This material contains no carbon:
  - a) Pearl powder
  - b) Guaiazulene
  - c) Fluorophlogopite
  - d) Silica Silylate
3. In an organic chemistry sense, this substance is not aromatic:
  - a) Menthol
  - b) Cinnamal
  - c) Thymol
  - d) FD&C Blue No.1

4. If you wanted to measure the magnetic susceptibility of a substance, you would use this instrument:
  - a) XRD
  - b) STM
  - c) LCMS
  - d) SQUID
  
5. What does the acronym CMC stand for:
  - a) Critical Mapping Constant
  - b) Critical Micellar Concentration
  - c) Constant Marketing Concepts
  - d) None of These
  
6. What size is the matrix used to describe the torque produced by an overhead mixer:
  - a) 2x2
  - b) 4x4
  - c) 4x4x4
  - d) 3x3
  - e) 1x1
  
7. What type of mechanism do mineral UV filters, such as TiO<sub>2</sub>, use to protect the skin:
  - a) Absorption
  - b) Transmission
  - c) Reflectance
  - d) It depends on particle size
  
8. What is the name of the equation that describes the total energy of any system:
  - a) Eigenvalue
  - b) Hamiltonian
  - c) Einsteintonian
  - d) Newtonian
  
9. What are the SI units for describing dynamic viscosity:
  - a) Pa.s
  - b) cps
  - c) reyn
  - d) cps-1
  
10. What testing method from the below is considered to be non-destructive
  - a) XRD
  - b) ICP-MS
  - c) Calorimetry
  - d) NMR

## ANSWERS

Quiz 3		
1. b	1. c	1. c
2. c	2. b	2. b
2. a	2. True	2. c
4. d	4. False	4. b
5. b	5. d	5. c
6. d	6. True	6. b
7. d	7. c	7. b
8. b		8. c
9. a		9. d
10. d		10. a



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## 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 at [www.caliscc.org/employment](http://www.caliscc.org/employment) or contact Heather Naef-Owen directly at [heathernaef@gmail.com](mailto:heathernaef@gmail.com).

[VIEW/ADD EMPLOYMENT LISTINGS](#) ►



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## ATTENTION! ATTENTION!

# In-House CEP Courses Available

In-House Courses are highly-personalized courses brought to companies to address challenges or areas of need. These courses, taught by knowledge experts, provide professionals with an up-to-date cosmetic science education. Recent In-House Courses have been organized for **Benefit Cosmetics, Mary Kay, Bayer**, the **FDA** and others.

Companies interested in providing in-depth technical information to their employees can contract an education day in a location of their choosing.

- ▶ **SOCIETY** covers the costs of booking the instructor and all of the instructor's traveling expenses (including hotel, flight, car, etc.)
- ▶ **COURSES** can be scheduled for 1 or 2 days on any topic of particular interest to the company
- ▶ **COMPANIES** can choose the instructor if they seek a specific knowledge expert

### Current courses available include:

Scale Up & Processing	Botanicals & Naturals for The Naturals Market	Preservatives
Regulatory	Chemistry & Regulations of Cosmetic Colorants	Cosmetic Rheology
Color	Molecular Biology & Gene Expression	Color & Make-Up
GMPS For Cosmetics	Phytochemistry 101 For Cosmetic Chemists	Surfactants
Cosmetic Formulations	cGMPS For Cosmetics and Otc's	Cosmetic Raw Materials
Regulatory Update	Practical Basic & Theory in Emulsion Technology	Fragrance as A Science
Beginning Cosmetic Chemistry	Cosmetic Chemists Guide to Product Development	Silicone Chemistry
Basic Hair Science	Sustainable Cosmetic Product Development	<i>and more!</i>

To reserve a course for your team,  
contact Sam Neely at [sneely@scconline.org](mailto:sneely@scconline.org)

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## Is USP 61 and 62 alone good enough for cosmetic safety?

Currently, routine microbiology testing for cosmetics mostly focuses on USP <61> for screening (Total Plate Count and Yeast & Mold) and USP <62> for pathogens (*Escherichia coli*, *Salmonella*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*).

While the testing program mentioned above covers most common bacteria and hazardous microorganisms, it may not be sufficient to exclude all potential microbiological risks. This is evidenced by the fairly recent warning letters issued by the FDA due to positive findings of microbiological contaminants.

Date	Product	Microbial contamination
Sep 2019	Solid Ink-Diablo	<i>Clostridium</i> species
Sep 2019	Dynamic Color BLK	<i>Bacillus cereus</i>
Sep 2019	Intenze Advanced Tattoo Ink- True Black Raw Umber Light product	<i>Pseudomonas andersonii</i> , <i>Oligella ureolytica</i> , <i>Methylobacterium</i>
Sep 2019	Raw Umber Light product	<i>Bacillus circulans</i> , and unidentifiable, gram-negative, oxidase positive bacteria
May 2018	No-Rinse Cleansing Foam	<i>Burkholderia cepacia</i>
Oct 2016	Contaminated water	<i>Burkholderia cepacia</i>
March 2016	"Pelican Hill Shower Gel," and "Essential Elements Shampoo"	<i>Pseudomonas aeruginosa</i> high Aerobic Plate Counts
April 2015	Illuminating Eye Shadow	<i>Bacillus cereus</i> (an ocular pathogen)

See below for detailed information about microbiological contaminants that you should consider testing your products for and why they can pose a potential risk as they are not detected by standard USP <61> and USP <62> testing (*Clostridium* and *Candida albicans* is listed in USP <62>, but is barely requested). For example, different forms of *Clostridium* and *Candida albicans* can cause a wide-range of symptoms from diarrhea to even death in pregnant women, the elderly and immunocompromised individuals. Nearly 20% of the US population fits into one of these categories.

<b><i>Burkholderia cepacia</i></b>	
Source	Body perspiration, infectious secretions, and droplet
Why Test For It?	Does not grow without pre-enrichment, requires special agar to grow.
Potential Danger	Fatal lung infection

<b><i>Clostridium species</i></b>	
Source	Soil, marine and fresh lake water sediment, preserved meat
Why Test For It?	Just grows in anaerobic conditions.
Potential Danger	Food poisoning, cellulitis, fasciitis, necrotic enteritis, gas gangrene, Botulism (potentially fatal illness)

<b><i>Pluralibacter gergoviae</i></b>	
Source	Soil, water, sewage, maize, grape bay, coffee beans, refrigerated packed fish paste, brown leaf spots on pear trees, and the insect guts of the fruit fly and the pink bollworm
Why Test For It?	Doesn't grow without pre-enrichment, requires special agar to grow.
Potential Danger	Endophthalmitis (an infection of the inside of the eye) , respiratory diseases, urinary tract infections, and blood poisoning

<b><i>Candida Albicans</i></b>	
Source	Mouth, throat, gut, genital area and on the skin of 40–60% of healthy adults
Why Test For It?	Yeast, but requires different growing conditions and pre-enrichment (not detected in low concentrations by yeast and mold screening)
Potential Danger	Invasive candidiasis (yeast infection)

Adamson Analytical recommends to add the aforementioned organisms to your testing program as an extra layer to protect your brand and consumers from microbiological risks. We can assist companies large and small with creating a risk-based testing plan that works. Reach out to Jackie Sirois- [Jackie.sirois@tentamus.com](mailto:Jackie.sirois@tentamus.com) with any questions or quote requests.



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**Neurometer CPT/C** A neurosensory threshold testing system for objective assessment of skin sensitivity, skin irritation, and itch propensity. Ideal for documenting subtle changes for claims support.

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# EVENT UPDATES



## NYSCC ANNUAL MEETING

This year's Annual Meeting is going VIRTUAL! Join our online community of cosmetic & personal care professionals to ENGAGE, EXCHANGE AND RECONNECT... digitally!

The premier conference for cosmetic science education is now offering a full week of online content! From **December 7th to December 11th**, gain access to 30+ virtual lectures covering the latest research and innovation...all from the comfort of your own home. Presentations on topics include:

- **Beauty Personalization & Technology**
- **Color & Optical Effects**
- **Cosmetic Dermatology: Skin Microbiome & Epigenetics**
- **Hair Care Innovation & Market Trends**
- **Natural/Sustainable in Cosmetics & Personal Care**
- **Sun Care and Beyond**
- **Technologies & Trends in Ingredients**
- **We've also added a special session this year covering the Personal Care/Cosmetics Impact & the COVID-19 Pandemic**

[Click Here to learn more & register!](#)



## SAVE THE DATE: 2021 CALIFORNIA SUPPLIER'S DAY

Wednesday, October 13th & Thursday, October 14th  
Long Beach California

CaliSCC Suppliers' Day serves as one of the most important North American events, with more than 300+ global Cosmetics and Personal Care industry leaders. All showcasing their new innovative ingredients, packaging, formulating contract packers, labelers, equipment suppliers, regulation specialist, and testing solutions. This biennial event is one not to miss. Free education presentations, technical posters, conferences, and regulatory updates under one roof for two days.

Visit our website to stay up to date on all Supplier' Day info: <https://caliscc.org/suppliers-day>



## POSTPONED: CALI SCC DINNER DANCE

Due to COVID-19, we are having to postpone the Cali SCC Dinner Dance until 2021. Keep an eye out for updated details on the new date:  
<https://caliscc.org/dinner-dance>

A LOOK BACK ON ALL THE SCC EVENTS IN 2010



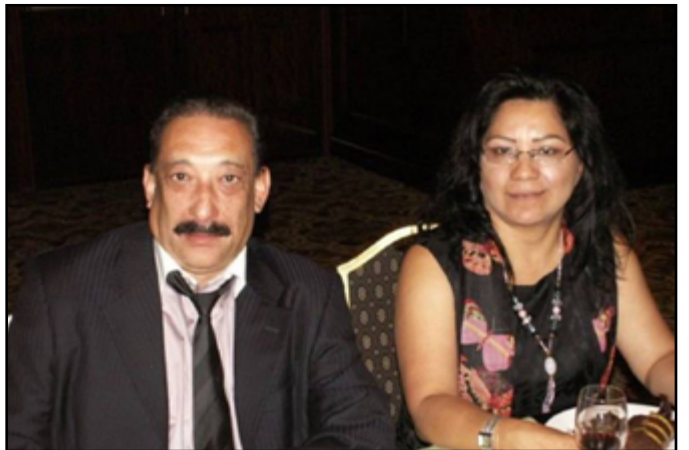
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# CHAPTER MERIT AND SPEAKER AWARD WINNERS

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Heidi Elrahib, Awards Chair



### MERIT AWARD

This year a group of past Merit Award winners have nominated Richard Hersey. He has been a member of Cali SCC for 20 years and has taken part in many committees in the past and currently resides as the Sports Chair. We thank Richard for all his support and time he has given to this chapter, he is well deserving of this award Congrats Rich!



### SPEAKER AWARD

The winner of 2020 speaker awards is Tony Abboud, for his talk on Upcycled Ingredients: The Next Frontier in Developing Sustainable Personal Care Products. Thanks for a great talk Tony!



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# NEW MEMBER SPOTLIGHT

## KELLY VU : STUDENT, CALIFORNIA STATE UNIVERSITY OF FULLERTON



### 1) Where is your hometown?

I was born and raised in Orange County, California

### 2) Where are you doing your university studies? What is your major and why did you pick that field?

I am currently studying biochemistry with a minor in marketing at California State University of Fullerton. I picked the field because I always knew I wanted to do something with skincare.

### 3) What is your favorite and least favorite part of your university studies?

My favorite part of my studies is working on my research project, which focuses on renewable energy sources that power up a device known as a fuel cell. My least favorite part would have to be taking calculus. Fun, but not my forte!

### 4) Why do you want to get into the personal care/cosmetics industry?

I want to get into the cosmetic industry because my dream is to become a formulator. I had hormonal acne growing up, which lowered my self-esteem. It was skincare that help me learn how to take care of myself better. I also love the creative aspect when it comes to product formulation and development. I would love to be a part of it someday.

### 5) What is your favorite cosmetic product and/or brand of cosmetics?

My favorite cosmetic product would be a liquid lip tint or lipstick. I feel it is the most convenient product when there's no time to apply makeup.

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

I helped design and launch a website for a student organization on campus.

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

I would choose to invite Audrey Hepburn and Michelle Phan.

### 8) During these challenging times of the global pandemic, many people have had to come up with new ways to stay active. What have you been doing to stay active (indoors or outdoors)?

To stay active, I recently registered myself in an aerobic and resistance class. I've also taken walks with my mom to a local park.

### 9) What invention would you have liked to be a part of?

An interesting invention I would partake would be the invention of clocks.

### 10) What is the most interesting place you've ever been or a place that you've dreamed of visiting in the future?

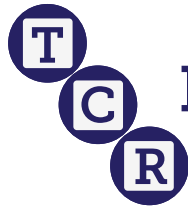
The most interesting place I've been is Vietnam, my motherland. There were so many cultural and geographic differences from the American culture I grew up with. I hope to return someday to learn more about the language and the rich history of Vietnam. A place I would like to visit is Japan because I love their pop and traditional culture.

### 11) Give us one random fact about yourself.

I am a twin.

### 12) Do you have a motto?

It is better to start small than to start nothing.



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# REGULATORY UPDATES

By Dan Kolhoff, Regulatory Affairs SCC Chair

## US

### Federal Legislation:

While the Cosmetic Safety Enhancement Act (H.R. 5279) and the Personal Care Products Safety Act (S. 726) were put on hold in March due to the COVID pandemic, Trade Associations expect that cosmetic legislation will be a high priority in Congress next year. The bills include user fees, mandatory reporting, new FDA recall powers, and may not fully preempt state legislation. More information about the bills can be found here - [congress.gov](https://www.congress.gov)

### Hand Sanitizer Update - US Department of Health & Human Services

The Public Health Emergency allowing companies to make Hand Sanitizer under the FDA Guidance, was extended on October 23, 2020, for another 90 days. The emergency declaration will expire on January 22, 2021, unless it is extended.

## CALIFORNIA

**Toxic Free Cosmetic Act - AB-2762** was signed by the Governor on September 30 and will ban 12 ingredients starting in 2025. More information can be found here - <https://leginfo.legislature.ca.gov/>.

**Cosmetic Fragrance and Flavor Right to Know Act of 2020 - SB 312** was signed by the Governor on September 30 and starting January 1, 2022, requires the discloser to the Department of Health of fragrance ingredients that are on 20 different US and International lists, the disclosure of EU fragrance allergens, whether the product is intended for professional or retail use, CAS numbers for each ingredient disclosed, and the UPC of the product being notified. The Dept of Health will create a database containing what ingredients are in the fragrance and the health hazards associated with each fragrance. More information can be found here - [https://leginfo.legislature.ca.gov](https://leginfo.legislature.ca.gov/).

**Prop 65** - The Developmental and Reproductive Toxicant Identification Committee will be reviewing 22 chemicals to determine if they meet the requirements for Prop 65 warnings for reproductive harm. The meeting will take place on Dec. 10, 2020.

### CARB - New Regulations

On Nov. 10th CARB proposed its final draft rules on various personal care products. CARB had proposed an update to the definition of labeling to include web based claims, but removed that from this rulemaking update. It will revisit in the future. CARB will accept comments on these rules by Nov. 24 - [csmrprod@arb.ca.gov](mailto:csmrprod@arb.ca.gov). More information can be found here - <https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-regulatory-activity-workshops>.

Category	Current	2023 Reductions	2031 Reductions
Hair Finishing Sprays	55%	50%	50%
No Rinse Shampoos	100%	55%	50%
Hair Shines	55%	55%	50%
Temp Hair Color	55%	55%	50%
Personal Fragrance Products (fragrance threshold)	75%	70% (7%)	50% (10%)
2% Fragrance Exemption	2%	2%	0%

## NEW YORK

### 1,4 Dioxane Restriction

1,4-Dioxane will be limited in Shampoos, Conditioners, Bath Gels, (rinse of personal care products) to 2ppm by Dec. 31, 2022. Then 1ppm by Dec. 31, 2023. All other cosmetic products will have to meet a 10ppm limit.



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3. **Review Articles:** Intended to present an overview of recent advances in a specific area related to cosmetics. The author of such a review is expected to be actively engaged in the area and capable of presenting a critical evaluation of published reports of a scientific and technical nature. Solicited by special invitation from the Editor and Editorial Committee; not subject to review by the Editorial Committee.
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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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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.

**The responsibility for good grammar and correct sentence structure rests with the author.**

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Major revision or retyping of manuscripts cannot be undertaken by the Editor; these must be done by the author or his designated colleague. The suggestions that follow are intended to reduce the number of revisions and exchanges of correspondence needed prior to the publication of an article. Authors who follow these instructions closely will see their articles reviewed and published in the shortest possible time.

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**2. Synopsis:** Each article should be preceded by a brief but informative synopsis of 100 to 200 words. The synopsis should state the objective of the research, the experimental approach used, the principal findings, and the major conclusions. Follow the form used by Chemical Abstracts in preparing the synopsis.

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- 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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- 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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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.



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