

nutmeg newsletter



June 2022

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September 2019 newsletter.



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See Yingxia's member profile:
March 2020 newsletter.



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CTSCC 2022 Board Members



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Employment, Golf Outing

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November 2020 newsletter.



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Geltor

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Rana Zaki

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Mansi Parikh

Edgewell

Arrangements



Susan Sperring

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Chapter Liaison

See Sue's member profile:
October 2020 newsletter.



Dan O'Neill

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Golf Outing

Interested in joining the board? Reach out to any board member to learn more!

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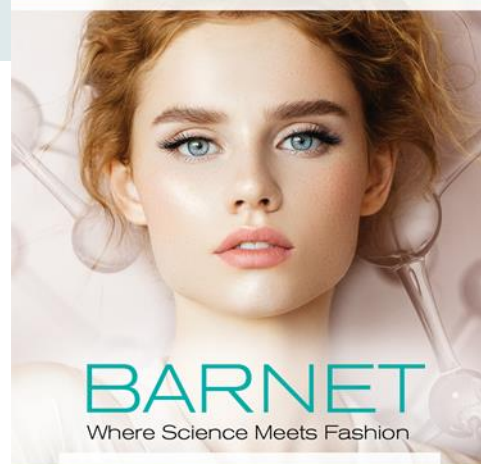


June 2022

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Letter from the Chair

Dear CTSCC Members and Friends,

Happy Summer! Everything is green and days and nights are now warm. Schools are either already out or will soon be out for their summer breaks. I personally don't have any big vacation planned but am hoping to go to Vermont for a few days with my family.

I'd like to give a big thank you to both Marcia Paula and Giorgio Dell'Acqua for their webinars. Marcia gave a fantastic presentation about Skinification of the Scalp and Giorgio went into great detail about Navigating the Sustainability Universe. Both topics are incredibly relevant to both the members in our chapter and the industry in general.

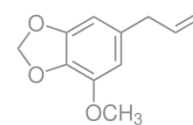
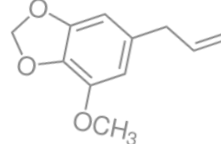
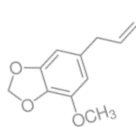
The remainder of the year is still being planned. We are actively working on finalizing the details for a social event in early fall as well as an in-person CEP course. We will post information as soon as it's available.

I hope everyone has a fun, healthy and safe summer.



Faith Corbo

2022 Chair, Connecticut Chapter
Society of Cosmetic Chemists



Technical Corner

How can Cosmetics be Sustainable

Author: Marc N.G. de Mul, PhD MBA

There are formidable challenges for the cosmetic industry in becoming fully sustainable. The cosmetics consumer is asking for reducing plastics pollution, formulating clean and natural products, and eliminating carbon emissions. And all of that within the next decade. None of this is easy, but it provides opportunities for significant innovation. The cosmetics industry is making major investments in biodegradable packaging, green chemistry, and renewable energy.

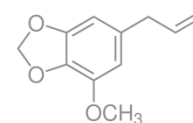
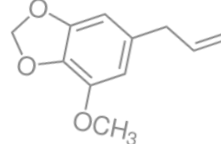
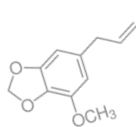
For consumers, sustainability is a confusing topic. Consumers don't have an easy way to tell which products are the most sustainable. There are many certification badges that relate to one or another aspect of sustainability. The most prominent are the COSMOS certification for organic and natural ingredients, which is used mostly in Europe. There are various animal cruelty badges, such as Leaping Bunny. And there are carbon neutral certifications. However, there is no overarching sustainability certification. Sustainability for cosmetic products means only positive impacts on the world – products must be natural, biodegradable, and carbon neutral. The feedstocks used cannot reduce biodiversity in the regions where crops are grown. There is also a social aspect of sustainability: the communities growing natural crops need to benefit from their produce. And of course cosmetic products need to delight the consumer, so that they can be sold.

Many of these aspects of sustainability are covered by the UN 2030 Sustainable Development Goals. For example, the UN goals include climate action and responsible consumption and production. Using green chemistry to produce cosmetic ingredients and reducing waste and water use are part of this last goal. Cosmetic chemists have a big impact on these goals because cosmetic and personal care products are made in large volumes and available everywhere. The drive to make the industry sustainable provides plentiful opportunities to innovate and create new products and chemistries.

Manufacturing a sustainable cosmetic product presents some interesting technical challenges. First, sustainable feedstocks must be used. There are a number of raw material feedstocks that are presented as sustainable, such as sustainable palm oil. Whether they are truly sustainable is not clear, because they are often grown in monoculture, displacing natural biodiverse ecosystems. It's also not clear how the palm oil plantations benefit the local population other than by providing jobs, and how much carbon is emitted in their manufacture. But they are natural, renewable, and biodegradable, which is an improvement over petrochemical feedstocks.

There are excellent cosmetic ingredients available now that are made according to the principles of green chemistry. They are based on natural feedstocks and do not produce waste products or carbon emissions during their production. Many are the result of fermentation using yeasts or microbes, which is developing into a very versatile production processing method. For example, Connecticut's P2 Science makes a range of emollients and fragrance components with green chemistry.

(cont. on next page) 4



Technical Corner

(cont. from previous page)

Geltor and Aprinova produce nature-identical collagen and squalane by fermentation, while Locus PI makes sophorolipid biosurfactants using microbes. Inolex manufactures biodegradable film formers made from plant oils, as well as cationic lipids by fermentation.

All the new ingredients are exciting, but it will be hard to replace non-sustainable stalwarts such as silicone oils, polyvinyl pyrrolidone, polyacrylates, and carbomers. These established materials have chemical properties that are hard to beat. The sustainability challenge is therefore not only to formulate sustainable products with properties comparable to existing products and at comparable cost, a difficult task for formulators. Cosmetics marketing teams also have to convince consumers to buy sustainable products that may not perform as well and may be more expensive. A tough challenge indeed!

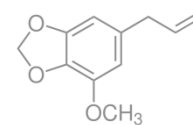
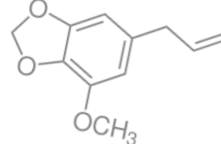
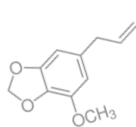
To be truly sustainable, cosmetics cannot produce polluting waste streams. The cosmetic industry has historically not been good at managing the environmental fate of its products after use. In 2018, 120 billion units of packaging were produced, a large fraction made of plastics. A lot of material also goes down the shower drain into sewers and septic systems.

All cosmetic products end their life in the environment. Global plastics pollution in oceans and waterways is an intractable problem, because plastics may end up far from where they were made and may degrade into plastic nanoparticles. Cosmetics firms could consider using refillable packaging, recyclable bottles and jars, and shipping concentrated product. Transportation costs would be much reduced by mixing and filling products close to where they will be used. This will also significantly lower costs and carbon emissions. But the consumer has to be persuaded to purchase refilled and recycled products.

In conclusion, it's getting late in the game but it's still possible to meet the 2030 Sustainable Development goals. Transforming the personal care and cosmetics industry to full sustainability is a major challenge that cosmetic chemists and engineers are well equipped to handle. Current product portfolios will need to be examined to redesign non-sustainable products. New product formulations need to use only sustainable ingredients and existing formulations reformulated. Packaging and transportation remain challenges. Vital is clear and effective communication to consumers to build awareness of the importance of sustainability.

This comment builds on a presentation given at the Long Island SCC on March 30, 2022.

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Technical Corner

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About the author



Dr. Marc de Mul is the president of Measured Innovation LLC. His firm offers consulting services on product development and innovation management. Marc has over 20 years experience in the home and personal care industry, commercializing many products including sunscreens and skin care products. He has a PhD in Chemical Engineering from Case Western Reserve University and an MBA from New York University.



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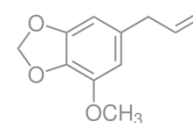
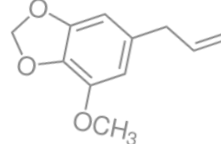
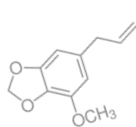
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Ready to test your knowledge on Skin Microbiome?*

The skin microbiota is the term used to describe the millions of different organisms—bacteria, fungi, viruses—that live in the human skin. The microbiome is the genetic material of all these microbes.

1. The number of people with an identical microbiome is 0.

Correct

Incorrect

2. The number of fungi species that have been identified in the microbiome is 25.

Correct

Incorrect

3. The approximate number of identified bacteria in the skin microbiome is 1,000

Correct

Incorrect

4. 5 billion bacteria live in 1 square cm of skin

Correct

Incorrect

5. Most of the skin microbes are found in the outermost layer of the epidermis and at the site of hair follicles

Correct

Incorrect



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deliver efficacious skincare and
haircare actives for today's consumers

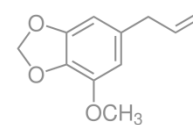
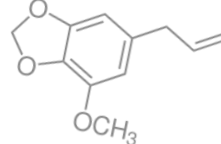
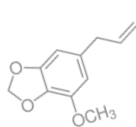


SWISS EXPERTISE 

RAHN

Source: *An Introduction to Skin Microbiome: Labskin*

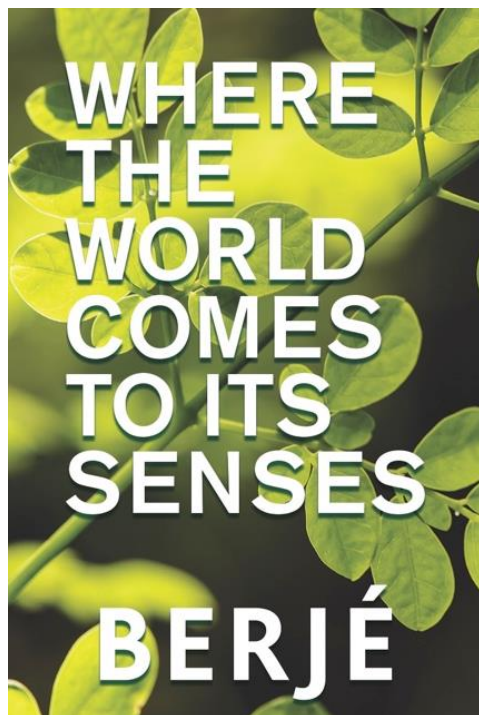
- Check page 10 for the answers 😊



Regional and Chapter Events

Southwest Suppliers Day – The Southwest Chapter’s Suppliers Day event is taking place September 14, 2022, at the Irving Convention Center. [Sponsorship](#) & [booth registration](#) opportunities are now available. For more information or to register, visit <https://swscc.org/suppliers-day>. Attendee registration opens June 15, 2022.

Naturally Kiawah Symposium – After a four-year hiatus, the event returns this October 5-7, 2022, at [the Kiawah Island Golf & Spa Resort in South Carolina](#). The theme is Creating a Sustainable Future of Consumer Products - Beauty and Beyond. The event will explore advances in clean and sustainable technologies in the personal care industry all while enjoying the extraordinary setting of Kiawah Island Resort. For more information or to register, visit <http://www.carolinasc.org/the-naturally-kiawah-symposium.html>.

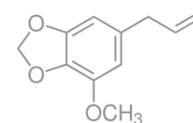
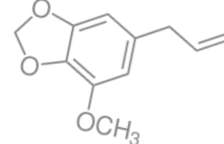
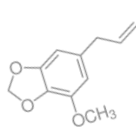


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Regional and Chapter Events

Join the NY SCC Natural Ingredients Symposium
Taking place June 30th at the Brooklyn Botanical Gardens!



Registration: ventbrite.com/e/nyscc-natural-ingredients-symposium-tickets-329780270667?aff=odeimcmalchimp&mc_cid=67e1985bf3&mc_eid=9ea4e5d349

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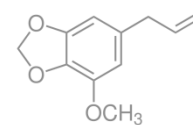
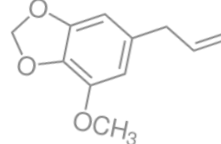
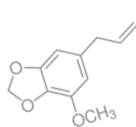
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NYSCC Dinner Cruise "Inspired by Senses" June 16

Dinner Cruise leaving from Weehawken along the Hudson River. Tabletops will be displaying formulas for our concept of Exploring all the senses.

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https://www.eventbrite.com/e/nyscc-dinner-cruise-inspired-by-senses-tickets-317209440977?aff=odeimcmalchimp&mc_cid=02cf110718&mc_eid=9ea4e5d349



SCC Annual Meeting – Los Angeles 2022

Exhibit, Sponsorship & Advertising Opportunities – Exhibition, Advertising and Sponsorship opportunities are now available online at www.sconline.org/scc76 - this year, you can select your location on the floorplan in real time! Sponsorship opportunities are available at various price points – and we thank those chapters who have graciously continued to support our annual meeting year after year. Attendee registration will open in July 2022.



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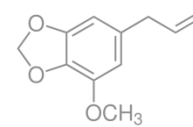
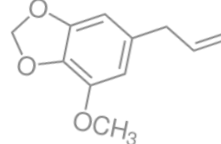
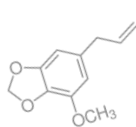
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Answers to the Skin Microbiome Questions

1. Correct.
2. Incorrect. . The number of fungi species that have been identified in the microbiome is 80.
3. Correct.
4. Incorrect. 1 billion bacteria live in 1 square cm of skin
5. Correct.

Source: *An Introduction to Skin Microbiome: Labskin*



University of Toledo

University of Toledo, Virtual Cosmetic Science and Formulation Design Summer Camp – The 2nd Annual University of Toledo College of Pharmacy and Pharmaceutical Sciences Virtual Cosmetic Science and Formulation Design Summer Camp (flyer attached) will take place over 3 days, June 22nd through June 24th, and include over 10 presenters! Participants will learn about the careers available in the cosmetic and personal care industry and the wide variety of companies who hire cosmetic scientists and formulators. They will also receive a camp kit which will include a t-shirt, “make your own product” activities, and more! Games and challenges will be incorporated throughout the duration of the camp for a chance to win more prizes! This camp is reserved for students actively enrolled in high school who are going into their 10th, 11th, or 12th grade years in fall 2022 who live in the U.S. or Canada. Other International students may attend, but they will not receive a camp kit. Cost is \$150 per student and UT also has some financial assistance scholarships still available.

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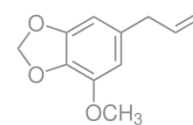
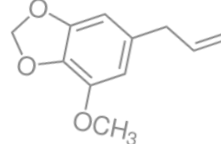
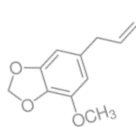
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Award

Green Star Award – The SSC is accepting submissions for the SCC Green Star Award through August 31, 2022! Across all industries, consumer demand for products using more natural ingredients and a manufacturing process that is environmentally friendly increases year after year. The SCC honors those formulators and companies who continue to push our industry toward a 'greener' future with this award, sponsored by Colonial Chemical. Awarded to the formulator who has accomplished a green formulation during the past 12-month period, the award will be presented at the 76th Annual Scientific Meeting, in Los Angeles, California. The winner receives a plaque, honorarium, and complimentary SCC membership for one year!

Chapter Elections

Chapter Officer Eligibility Forms – The Chapter Officer Eligibility form for 2022 is ready. **Please note that this form is due to eogrady@scconline.org no later than September 14, 2022, for the HQ office to confirm your local chapter candidate eligibility.** Per the Board of Directors' adopted policy 11-15-21, all candidates for 2023 Chapter officers MUST be a member in good standing as of April 1, 2022, in order to be eligible to run. You should refer to your chapter's Bylaws for any other chapter-specific candidate or process requirements prior to submitting the completed form to HQ. You will need to indicate on this form whether the HQ office will be administering the e-ballot on behalf of the Chapter.

Connect with area professionals through the newsletter!



Do you have an **employment opportunity** in the Connecticut area or beyond?

Is there a **technical article**, raw material insight, relevant writing, or other piece you'd like to share with the community?

Have you captured **photos** at CTSCC events?

Please contact Beatriz Blanco to be featured in the newsletter (Beatriz@geltor.com)

Are you interested in supporting CTSCC with a newsletter **sponsorship**? Please contact Jaclyn Marchetta for more information Jaclyn.Marchetta@unilever.com or visit ctsc.org/advertising.

We are a chapter of the National Society of Cosmetic Chemists.

The National Organization is dedicated to the advancement of cosmetic science. The Society strives to increase and disseminate scientific information through meetings, continuing education courses and publications. For more information please make sure to visit our website: www.ctsc.org