



NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



May 2024

Volume CXIII

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IN THIS ISSUE...

- SCC ONTARIO CHAPTER MEETING..... page 2
- FREE SCC ONTARIO MEMBER APPRECIATION CRUISE.... page 5
- MARCH 6 REGULATORY MEETING RECAP..... page 8
- SCC ONTARIO 22ND ANNUAL GOLF TOURNAMENT..... page 11
- "How much do we know about skin microbiome" page 12
- UPCOMING EVENTS..... page 18

SCC ONTARIO CHAPTER MEETING

"SENSE, NONSENSE, AND SCIENCE"

- Joe Schwarcz PhD

May 30th, 2024

PRE-REGISTER FOR THIS CHAPTER MEETING

Simply click on the button below which will take you to our registration page. You can then either pay at the door, mail a cheque to rob.castillo@univarsolutions.com or pay with credit card in advance or at the door.

Please make your reservation before the Monday prior to the meeting.

Click Here To Register

SCC ONTARIO CHAPTER MEETING

"SENSE, NONSENSE, AND SCIENCE"

- Joe Schwarcz PhD

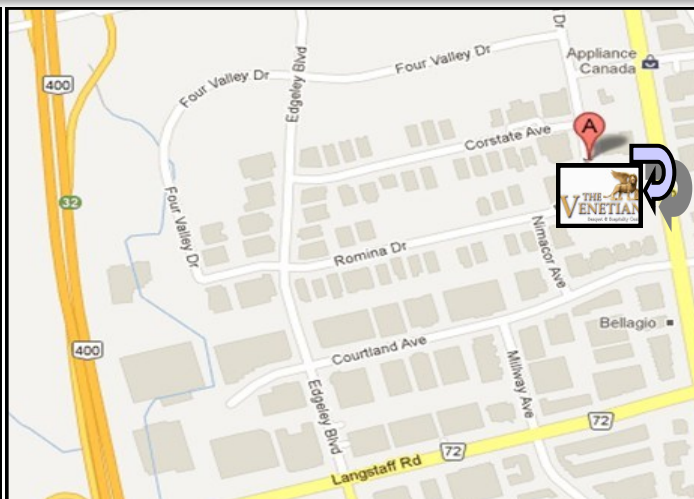
May 30th, 2024



Location: The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960)

Time: 5:00 Cocktails
6:00 Dinner
7:00 Presentation
8:00 Adjournment

Fees: \$60 pre-paid SCC member
\$75 pre-paid non-member
\$30 pre-paid student
\$75 at the door



Abstract :

A little nonsense, now and then, is relished by the best of men. These days, however, we seem to be dealing with more than just a little nonsense. The Internet is filled with products that promise miraculous cures and magical weight loss schemes, health food stores equate "natural" with "safe" and the dead offer advice to the living through "mediums." Synthetic substances are looked upon as villains and some cosmetics advertise that they are "chemical-free." Only a proper scientific investigation of these issues can separate sense from nonsense.

Biography:

Joe Schwarcz is Director of McGill University's "Office for Science and Society" which has the mission of separating sense from nonsense. He is the recipient of numerous awards for teaching chemistry and for interpreting science for the public and was the first non-American to win the American Chemical Society's prestigious Grady-Stack award for popularizing chemistry.. "Dr Joe" has hosted a radio show on science for forty-three years, has appeared hundreds of times on television, writes a regular newspaper column and is the author of nineteen best-sellers. He has been awarded honorary degrees by Athabasca University, Cape Breton University, the University of Windsor and Simon Fraser University. Professor Schwarcz is also an amateur magician and often spices up his presentations with a little magic.



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March 6th Regulatory Meeting

Our day long event commenced with a retrospective discussion on the “Modernization of Cosmetics Regulation Act of 2022” (MoCRA), a pivotal topic from our 2023 regulatory meeting. The session titled “**MoCRA Explained: Compliance Deadlines and Updates**” was expertly delivered by Craig Weiss alongside Jaclyn Bellomo, who holds the position of Director of Cosmetic Science and Regulatory Affairs.

Post-lunch, the conversation shifted towards the intricate web of regulations that govern our industry. Catherine Graham, the Regulatory & SHEQ Manager for Azelis Canada, captivated the audience with her presentation “**Navigating Complex Regulatory Landscape: A Distributor’s Perspective.**” She elucidated the challenges that business leaders encounter in this maze-like regulatory environment and underscored the necessity of implementing robust programs to maintain unwavering compliance.



To conclude the day’s insightful sessions, Teena Warrin, Product Safety and Regulatory Affairs Manager at Croda Canada, took the stage to dissect the Canadian Environmental Protection Act (CEPA). Her talk, viewed through the lens of a raw material supplier, was not only informative but also enlightening. Teena imparted valuable **tips and tools for compliance**, and offered a sneak peek into the imminent changes and challenges that lie ahead

Attendees were emailed a link to download all the presentations!



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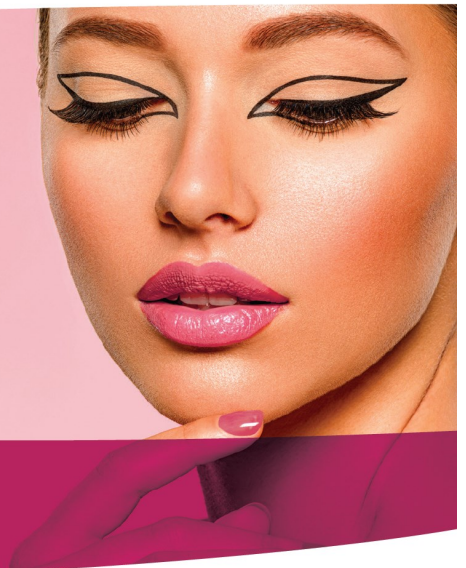


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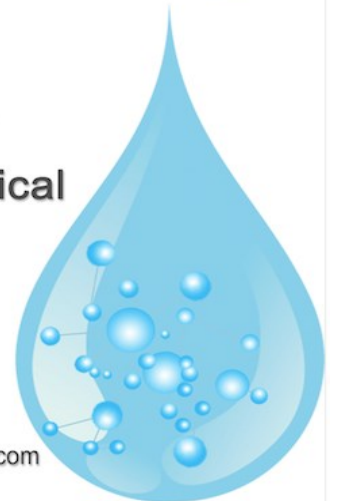
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HOW MUCH DO YOU KNOW ABOUT SKIN MICROBIOME AND THE IMPACT THAT SKINCARE PRODUCTS HAVE ON YOUR SKIN?

Written by Freddie Metherell, producer – Kisaco Research

It wasn't too long ago that our TV screens were flooded with images of the evil bacteria with jagged teeth and sharp claws, wiped away by the cape wearing antibacterial spray. This dichotomy between the good of the antibacterial spray and the evil bacteria has been ingrained into society for so long now that the suggestion of applying bacteria to your skin would seem utterly bizarre a decade ago.

But times are changing. From deodorant sticks to foundations, bacteria are getting into cosmetic products across the board and the market is starting to boom. Demand for bacterial ingredients is set to break **10,000 tonnes per year by 2021**.

The case for bacterial products is now so strong that even Clorox Co., the company behind the famous bacterial obliterating bleach, recently acquired Renew Life Formulas, a provider of probiotic and prebiotic supplements.

WHAT IS THE SKIN MICROBIOME?

The gut microbiome shot to fame with the discovery of the so-called “second genome” with bacteria making up 10¹² cells per gram of intestinal content.

Research, since this boom of interest in the early 2000s, has shown the link between the bacteria in the gut, and a whole range of diseases, from obesity, to depression. It wasn't long before the influence of bacteria was shown to also play a large role in the health of the skin.

Now becoming a focus in skin health and cosmetics industries, the skin microbiome is the network of bacteria that makes their home on the surface of our bodies. This community of bacteria communicate and collaborate to keep the skin in a healthy condition.

WHY IS IT IMPORTANT?

For a long time, the science behind a lot of the theories that guide R&D into the skin microbiome has been lacking substance, but in the last year, things have started to pick up. Research [i] published earlier this year showed clearly that the skin microbiome can be effectively altered through the application of live bacteria.

This may not seem like a big deal, but when this fact is added to a bank of research that links the pathogenic bacteria on the skin to not only a range of cutaneous diseases, but also more recently cosmetic factors such as aging [ii], body odor [iii] and blocked sebaceous glands [iv], the implications for product development are huge.

The global probiotics market will reach \$74.7 Billion by the end of 2025 and the skin is set to be right at the heart of this market's growth [v].



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Presenters Welcome!!!



The SCC Ontario Chapter board is currently accepting submissions for presentations! Interested parties can submit a presentation abstract and a biography. Your talk may be accepted for either a Chapter meeting or Education Day.

Please send all enquiries to Andy Halasz (speaker coordinator) at

 [send an email](#)

Did You Know?

SCC Ontario Chapter Has a Group Presence on **LinkedIn** and invites you to join the Group As a Member of the SCC Ontario LinkedIn Information Source.

Take A Look **LinkedIn**



NEWSLETTER POSTING DATES FOR 2024

Here are the dates for 2024 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 8th
- ◆ February 7th
- ◆ May 2nd
- ◆ August 22nd
- ◆ October 10th



(or as close as we can get)

Should posting dates change throughout the year the most up to date list can be found at the below site.



MODULATING THE SKIN MICROBIOME

Commercialization of the skin microbiome is currently taking two directions, with the use of bacterial products, called lysates, proving a practical solution to the challenges that handling live bacteria presents. In utilizing these extractions, the issues surrounding keeping the specific bacteria alive and limiting contaminant bacteria are restricted. With recently released papers [vi] suggesting that these lysates aid in protection against inflammation and improve barrier function, these bacterial based products are an effective tool in improving skin appearance and health.

WHAT SHOULD FORMULATORS KNOW?

93% of customers rely on reviews [vii], so delivering a reproducible probiotic benefit to the consumer is extremely important. Live bacteria does have additional benefits of antimicrobial action against bacteria, unlike lysates, and can prolong this effect by colonizing the skin. Maintaining viable bacteria in live bacterial products is the key hurdle to achieving this. Following acquisition of bacteria from CDMOs or self-owned bioreactors. The next step in ensuring that only desirable bacteria are present is by introducing quality control at each stage of production.

Preserving this single strain and preventing the development of bacterial products is the next challenge. Companies such as Esse Skincare have developed water-free oil based, airtight formulations to achieve this. Yun Probiotherapy have taken a different approach, using microencapsulation methods.

With these logistical and manufacturing issues, there are cost-benefit considerations that level the playing field between live bacteria and bacterial lysates. There is also variation from country to country; there are extremely tight rules in France excluding minimal levels of bacteria, but minimum doses of 10⁹ colony forming units are required in places such as Canada to be known as a probiotic product [viii]. In the U.S., the FDA are in the process of analyzing scientific data to clear up the safety of probiotics and post-biotics. Until that point, regulation is only able to differentiate between cosmetics and therapeutics based on the impact that the product has on skin health.

WHAT'S NEXT FOR THE SKIN MICROBIOME?

The skin microbiome is being recognized by publications such as Vogue and Harper's Bazaar, as one of "2019's biggest skincare trends". With scientific understanding of the skin microbiome taking the potential for modulation into new territories, now is the time for developing products that influence the skin's health through the microbiome.

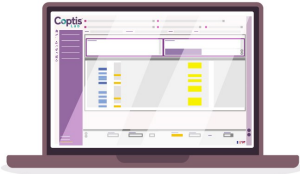


About the author

Freddie Metherell is a producer at Kisaco Research, specializing in Life Sciences and Pharmaceutical research. He graduated from the University of Warwick with a BSc in Biomedical Sciences before completing a master's degree in Biotechnology, Bioprocessing and Business Management.

Article complements of <https://www.sconline.org/Education/Blog>

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UPCOMING EVENTS

May 30th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— <i>“Sense, Nonsense, and Science”</i> - Dr. Joe Schwarcz
June 13th, 2024 Queen’s Quay Terminal	SCC Ontario Membership Appreciation Boat Cruise
July 17, 2024 Lionhead Golf Club & Conference Centre	SCC Ontario Annual Golf Tournament
September 19th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Education Day—Joe Dallal
November 7th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting—TBA
December 6th, 2024 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance
February 6th, 2025 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting—TBA
March 6th, 2025 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting - TBA
May 29th, 2025 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting—TBA

ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS



The support of Cosmetic Science Education and Research are central to the goals of the Society of Cosmetic Chemists (SCC). The Ontario Chapter has developed a Scholarship Program available to students planning to complete cosmetic science research in Canada. In the past, the \$1000.00 award has been presented to students from Seneca College, University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and over 20 students have received awards.

Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at dzuccoli@estee.ca. The scholarship applications will be reviewed by the SCC Ontario Chapter Board members. Students awarded a scholarship can also apply for additional support (up to \$1000.00) to cover research and development costs, training and conference expenses.

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing annual scholarships. Undergraduate students of the Seneca School of Biological Science and Applied Chemistry have also been supported by an annual award.

Successful scholarship and award candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members, prepare a poster presentation, write an article for the newsletter and make an oral presentation on their research at a chapter meeting.

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MEMBERSHIP

For those who would like to become members, yearly fees are \$175US. Applications are available from your Executive Committee or on-line at;



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Presentation Library

Peruse our wide selection of presentations from previous meetings

<http://www.ontarioscc.org/presentations.htm>

Membership Programs and Privileges

Journal - Membership includes subscription to the Journal of Cosmetic Science, the Official Journal of the Society of Cosmetic Chemists. The Journal contains technical papers on topics of interest to cosmetic scientists and is distributed six times per year.

Meetings & Seminars - The Society holds its Annual Scientific Meeting each December. The Meetings and Seminars provide a forum for an exchange of current findings and technology on topics of global interest in cosmetic science.

Continuing Education Programs - Our CEP Programs are short courses taught by practicing cosmetic scientists and perfumers, all acknowledged experts in their disciplines.

Chapters - Each member is assigned to one of nineteen Chapters throughout the United States and Canada, according to his or her geographic location. Chapters hold local scientific meetings throughout the year, and many publish their own newsletters.

I.F.S.C.C. - The Society of Cosmetic Chemists is one of 42 member organizations within the International Federation of Societies of Cosmetic Chemists.

