



NORTHERN HIGHLIGHTS



The SCC Ontario Chapter's Newsletter



October 2022

Volume CV

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SCC ONTARIO CHAPTER MEETING

"Impact of FDA monograph on sunscreen formulations; formulating with inorganic sunscreens"

-Donald Prettypaul

November 3rd, 2022

PRE-REGISTER FOR THIS CHAPTER MEETING

As this meeting is an "in person" event simply click on the button below which will take you to our registration page. You can then either bring the payment with you or request a PayPal link from rob.castillo@univarsolutions.com. Please make your reservation before the Monday prior to the meeting.

**Click Here
To Register**

SCC ONTARIO CHAPTER MEETING



"Impact of FDA monograph on sunscreen formulations; formulating with inorganic sunscreens"

-Donald Prettypaul

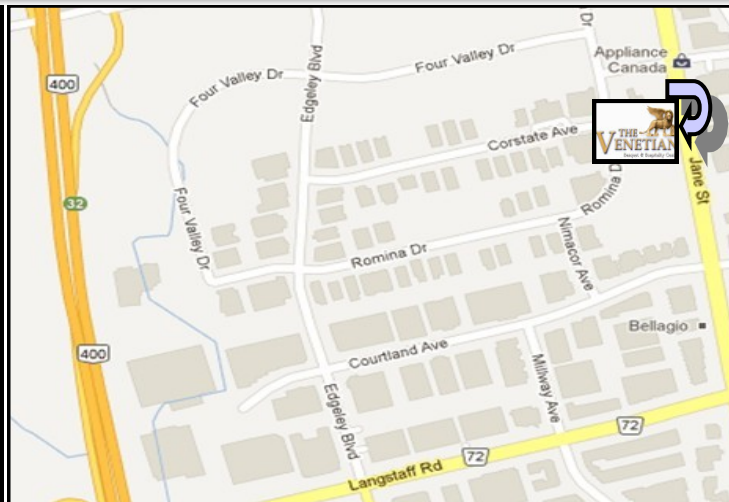


November 3rd, 2022

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
\$70 pre-paid non-member
\$30 pre-paid student
\$75 at the door



Abstract:

Impact of FDA monograph on sunscreen formulations; formulating with inorganic sunscreens

The proposed rules published by the FDA in the Federal Register in February 2019 had the biggest impact on sunscreen formulations since the publication of the first tentative monograph in August 1978. In this presentation, the MUsT (Maximal Usage Trial) study conducted by the FDA that led to the proposed changes will be discussed as well as the impact of those changes on future formulations.

In addition, an in-depth review of formulation strategies with zinc and titanium oxides will be presented. Methodologies used to screen various types of inorganic sunscreens such as zeta potential, contact angle, particle size analysis, SEM microscopy and Hegman gauge will be presented and compared. The effect of particle size on SPF and skin whitening will be discussed. Differences between formulating inorganic sunscreens in O/W and W/O emulsions and their impact on water resistance and formulation stability will be reviewed. The addition of polymers and SPF boosters to increase SPF and water resistance will be presented along with some *in vivo* SPF testing data.

The work presented will enable formulators to get a head-start to adapt their formulations to the guidelines set forth by the FDA and prepare them to formulate efficiently with inorganic sunscreens.

Biography:

Donald Prettypaul has over twenty-five years of industrial experience, mostly with Ashland where he worked on a variety of disciplines. He started his career in analytical chemistry, then moved to other areas like polymer synthesis, microemulsions, and applied research. Don is currently working in the skincare applications group as a Principal Scientist. Don has a BS in Chemistry from City University of New York, and an MA in Cosmetic Science from Fairleigh Dickinson University and Ph.D from Rutgers University.





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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.



THE SCC ONTARIO CHAPTER IS THRILLED TO ANNOUNCE THE RETURN OF OUR VERY POPULAR "HOLIDAY DINNER DANCE!"

December 2nd, 2022

See's the return of our annual event for the first time since 2019!
We are returning to The Venetian Banquet & Hospitality Centre,
219 Romina Drive, Vaughan.

We start the evening at 6:00 p.m.
by enjoying the specialties from the antipasto table.
Dinner will follow at 7:15 p.m. SHARP.
The dance floor will be open until 1:00 a.m. and
you can enjoy a sweets table at 10:30 p.m.

Reserve early and save.

Early bird pricing up to November 1st is \$180.00 per person.
After the November 1st deadline the price is \$200 per person.



Registration Will Open Soon !

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- Free registration for upcoming chapter meeting for 2 people for February meeting

Gold - \$1000

- Company logo will be prominently displayed in event space
- Company logo will be displayed on website
- Free registration for upcoming chapter meeting for 1 person for February meeting

Silver - \$500

- Company logo will be displayed in signage in event space
- Company logo will be displayed on website

Email Dorothy Here to Inquire About Sponsorship



Door Prize Donations are Appreciated

MENU

Tomato & roasted Red Pepper Bisque Soup
Cucumber wrapped salad
Asparagus Risotto

Fillet Mignon with Cognac Sauce & Fillet of Salmon in a butter and white wine sauce

Vegetarian Option - Eggplant Parmigiana

Grilled Red & Yellow Peppers & Broccoli

Parisienne Potato

Chocolate Tartufo in a Martini Glass



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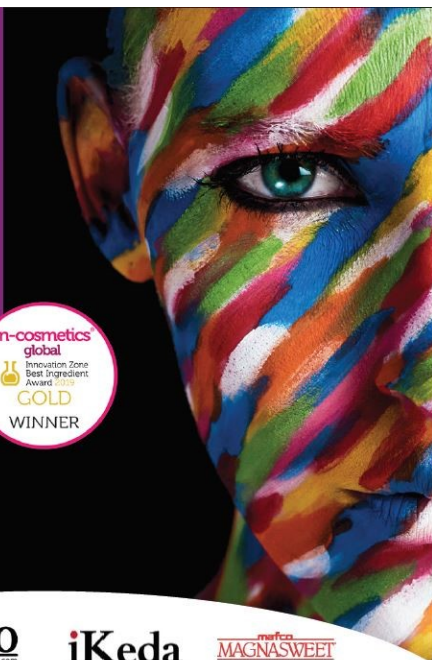


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October 6th Education Day Recap

On Thursday October 6th we were happy to see the return of our yearly Education Day! This year a free SCC Continuing Education Course was offered to members. We had about 50 in attendance to take in the full day and the topic was ***"Botanicals and Naturals for the Natural Market"*** administered by Mr Arthur Georgalas.

The course was designed for formulators, researchers, marketers or anyone who wants to learn more about natural products used in natural personal care products with focus on botanicals. Art addressed such subjects as; What are natural products? Why do we want to formulate with them? As well as including such topics as; The Natural & Organic Market – USDA and NGO certifying bodies as well as rationales for ingredient acceptability and restriction.



If you attended the meeting and would like to request a copy of the presentation click here

Submit a Request



ARTHUR GEORGALAS has conducted and directed product formulation and applied research in cosmetics, toiletries, skin, sun and hair care at Revlon, Shulton, Charles of the Ritz, Dow Brands/ LaMaur and at TRI-K Industries, Inc. in Northvale, New Jersey, U.S. as Director of Research and Development Art has recently established GEOR-GALAS ENDEAVORS LLC to bring this experience and expertise to clients with personal care projects.. He has also contributed articles to various trade journals and the book Sunscreens 2nd ed., Marcel Dekker publishers. He contributes to active SCC, NYSCC and IFSCC committees and has presented at many technical and trade conferences. A graduate of CCNY (City College of New York), he also completed the Masters Program (M.S. degree) in Pharmaceuticals, specialty in Cosmetic Science at the Arnold and Marie Schwartz College of Pharmacy and Health Sciences of LIU (Long Island University). As an adjunct professor, Art instructs classes in Product Development and Applied Colloid Chemistry at Fairleigh Dickinson University.

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MEMBER *spotlight*

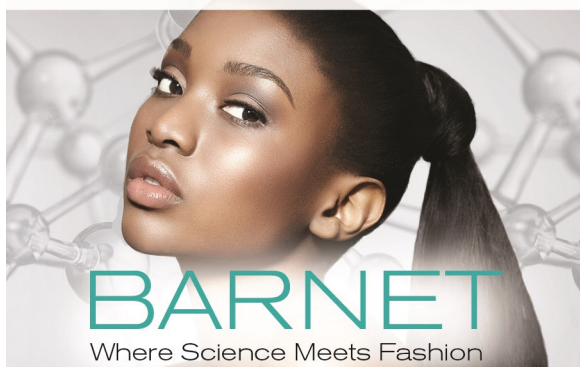
Enquire Now

The SCC Ontario Chapter has many members with diverse backgrounds so we think its time we featured some of those members! If you would like to be interviewed and featured on the SCC National website please contact us. Click below to see the types of questions and current featured members.

<https://www.sconline.org/About/In-the-News/Member-Spotlight>



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SCC ONTARIO MERIT AWARD PRESENTED

During our October 6th Education Day at The Venetian this year the SCC Ontario Executive Board was pleased to present **Mr Gagan Jain** the SCC Ontario Chapter Merit Award! The award was actually announced back in 2021 but like most things "COVID" kept us from doing a proper presentation in person. This honour is bestowed upon those that are recognised for their outstanding contributions as well as demonstrating exceptional commitment and involvement in the Chapter for many years. For the last 20 years we have had the pleasure of Gagan serving as a board member as well holding the elected position of Chapter Chair and is currently our Golf Tournament Chair.



Gagan has been involved in the Personal Care Industry for the past 22 years with an additional 7 years of experience working internationally in the chemicals sector. Since 2016 he has ventured into an entrepreneurial role with a chemical distribution business, Renechem Inc. We would like to thank Gagan for his service and his continued help in making our Chapter a better one for all of us to enjoy!





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Molecular Biology, Gene Expression and the Prospects for Personalized Cosmetics

Written by Howard Epstein, PhD, Director of Technical Services

INTRODUCTION TO GENE EXPRESSION

Just prior to the initiation of The Human Genome Project (HGP) that began in 1990 (1990-2003), publications in the press predicted that with the sequencing of the human genome, cures for many of the diseases of man would be discovered. The reality is that a large part of the early work was devoted to the development of more efficient techniques to elucidate the genome. **The goal of the project was to analyze the structure of human DNA and determine the location of all human genes. DNA from model organisms other than human were studied to provide comparative information to understand the functioning of the human genome.** Initially it was too costly to sequence whole human genomes. For this reason, the investigators decided to study sites on the genome where many people have a variant DNA unit. This project called HapMap focused on cataloging common variants found in European, Asian and African genomes.

GENE EXPRESSION AND THE COSMETICS INDUSTRY

Since the conclusion of the Human Genome Project, studies of DNA variation have enabled genetic testing that can show a predisposition to a variety of illnesses.

Genetic testing has expanded to the cosmetics industry for evaluation of ingredients that can be optimally paired with consumers based on a gene analysis of the individual.

Currently one typically formulates for the average consumer, the aim of personalized skin care is to match each person with a formulation that will work best for that individual. To formulate personalized products, one needs to consider how variations in our genes influence our skin. Consider genetic variations that contribute to height, hair and skin color. It is known that different skin types respond differently to radiation including UVB, UVA and blue light. While not completely understood, biological pathways that are responsible for these variations are constantly being identified.

Two example patents/patent application are;

1. Skin appearance through gene manipulation
US 8859021 B2 Application Number US20090036545, dated 10/14/14

and

2. Methods and Systems for Improving Skin Condition
International Publication Number WO/2017/083576, dated 05/18/17

EPIGENETICS

Factors from the environment, our diets and lifestyle also influence our health and skin and the genes that interact with these influences need to be considered as well in formulating personalized products. Environment, diet and lifestyle have an influence on each person's epigenetically-controlled gene expression. Many of these genes are identified, knowing how epigenetic gene expression may be modified by alteration of diet, lifestyle and targeted care. Epigenetic changes can help determine whether genes are turned on or off and influence the production of proteins in certain cells. The mechanism of epigenetics ensures that one's DNA is not necessarily their destiny.

SAFEGUARDING PERSONAL GENETIC INFORMATION

Safeguarding of personal health information is of the utmost concern. The Genetic Information Nondiscrimination Act (GINA) enacted in 2008 was intended to protect Americans from discrimination based on their genetic information in both health insurance and employment. The Act prohibits health insurers from engaging in genetic discrimination.

About the author

Dr. Howard Epstein is Director, Technical Services for EMD Performance Materials Corporation, an affiliate of Merck, KGaA, Darmstadt, Germany. He was a scholar in residence at the University of Cincinnati department of dermatology and received his Ph.D. in Pharmacognasy from the Union Institute & University in Cincinnati, Ohio during that time. Howard has authored chapters in various cosmetic technology textbooks including Apply Topically, and a chapter in the Manual of Gender Dermatology. He was editor of the Journal of Cosmetic Science and authored and edited various chapters in Harry's Cosmeticology, ninth edition recently published. Howard has extensive experience in the cosmetic industry, formulating for Estee Lauder, Maybelline, Bausch & Lomb and KAO brands. Howard has six formulation-related patents and currently serves on the editorial board of the dermatological journal SKINmed, representing the cosmetics industry to dermatologists.



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Strongly agree ☐
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Survey draw!!

Each year the **Ontario Chapter** is privileged to host many fine speakers and we would like to recognize them for their efforts. Following each meeting attendees will receive a **very short survey** asking to rate the speaker. Attending the meeting and responding to the survey enters your name for a chance to win a \$25 gift card! Based on your feedback at the end of the year we will tally the results and present one of the speakers with an award as our **“Speaker of the Year”!**

HISTORY OF OUR SOCIETY

Building a community and expanding knowledge for 75 years.

1945

Comprised of nearly 6,000 members, the Society of Cosmetic Chemists was founded in 1945 to promote high standards of practice in the cosmetic sciences. We serve as a focus and provide the proper forums for the exchange of ideas and new developments in cosmetic research and technology. Our leadership includes a long list of [past SCC Presidents](#) who have served the organization well over the years.



**SCC Founding Father,
Maison G. de Navarre**

1948

Since 1948 Chapters have been the lifeblood of the Society of Cosmetic Chemists. We now have 19 Chapters throughout the United States and Canada, which conduct monthly meetings, educational seminars, suppliers' days and publish monthly newsletters. These Chapters are run by dedicated volunteers who lend their time and expertise to the smooth and efficient operation of each Chapter.

1999

At the turn of the century, our Society launched their first website with a mission to reach a larger audience while extending enhanced services to our membership. By digitizing our historic journals, we have an inventory of our evolutionary progress in developing new products based on sound standards.

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

bhalasz39@gmail.com



Did You Know?

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NEWSLETTER POSTING DATES FOR 2022

Here are the dates for 2022 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ♦ January 11th
- ♦ February 10th
- ♦ April 28th
- ♦ August 25th
- ♦ October 6th



(or as close as we can get)

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

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



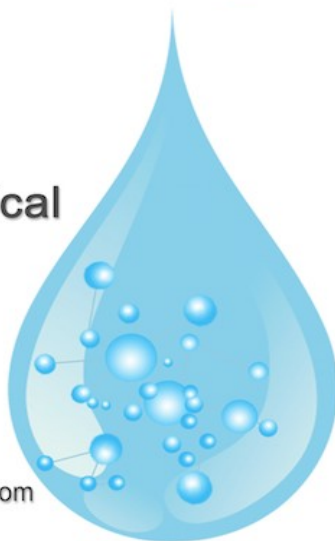
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Did You Know?

Why Is Diet Coke So Fizzy?

Whether you're buying ingredients for an at home "Coke and Mentos" demonstration, asking a flight attendant for a beverage, or just trying to pour a can of soda into a glass before hockey comes back on, you may have noticed something: Diet

sugar-free sodas fizz more than regular sugar-rich sodas when opened.

The degree of carbonation or "fizziness" of a soda is partly a function of how easily carbon dioxide bubbles can form in the sugary flavour water we call pop. When it's easier for bubbles to form, you get more of them and therefore an increased "fizziness".

When a liquid has a high surface tension, it means that the bonds between the liquid's molecules are very strong. Surface tension is why some spiders can walk on water—the spider's weight isn't enough to break apart the water molecules! In a substance with high surface tension, bubbles will not form very easily.

Surfactants are chemicals that decrease the surface tension of a liquid. They will therefore make it a bit easier for bubbles to form. Regarding Diet Coke, aspartame, and potassium benzoate (a preservative) are surfactants! Caffeine as well, but it has much less of an effect due to its low concentration.

Bubbles of gas will struggle to form in very viscous liquids, like maple syrup or waffle batter. Diet soda actually has a slightly higher viscosity than sugary soda, which slightly diminishes its fizzing potential. However, a slightly higher viscosity means that when bubbles do form, they're a bit more stable. This explains why Diet Coke not only fizzes more than classic Coke, but the foam also lasts longer!

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UPCOMING EVENTS

November 3rd, 2022 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— <i>“Updates to Sunscreen Monograph and new developments in Suncare”</i> - Donald Prettypaul
December 2nd, 2022 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance
February 9th, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— Howard Epstein, EMD
March 9th, 2023 The Venetian, Vaughan Ontario	SCC Ontario Regulatory Meeting
April 13, 2023 The Venetian, Vaughan Ontario	SCC Ontario Meeting—Capstone and Applied Research Presentations
May 25th, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— Tania Viana—Grant Industries
July 2023 Caledon Woods Golf Club	TBA
September 21, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— SCC Ontario Education Day
November 2, 2023 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 several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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 \$165US. Applications are available from your Executive Committee or on-line at;

<http://www.sconline.org/membership/>

Please return the completed form at your convenience and reap the benefits of the SCC. For renewal memberships, please send payments directly to the SCC National Office. For your convenience, National will accept payment by **VISA, Mastercard or AMEX**. Please contact National for details.

Presentation Library

Peruse our wide selection of presentations from previous meetings

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

ATTENTION MEMBERS

Unemployed and Emeritus members may continue to attend monthly meetings free of charge.

Please contact the registration booth upon arrival.

Unemployed membership is free of charge by submitting the renewal form with unemployment details.



Change of Address

Throughout the year many of our members change jobs or relocate and forget to notify the National Office. Without notification, these members may not receive important mailings and eventually are made inactive. If you know of someone who has moved, please ask them if they have contacted the National Office regarding their address change.