



# NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



January 2023

Volume CVI

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## IN THIS ISSUE...

- FEBRUARY 9TH SCC ONTARIO CHAPTER MEETING..... page 1,2
- ANNUAL HOLIDAY DINNER DANCE REVIEW..... page 5,6
- A FAREWELL FROM THE CHAIR..... page
- "When was the last time you really looked at a spiderweb?"..... page 12
- SCCONTARIO MERIT AWARD PRESENTED..... page 14
- NOVEMBER 3RD 2022 MEETING RECAP..... page 18
- OUR 2023 ONTARIO CHAPTER OFFICERS INTRODUCED.... page 19
- DID YOU KNOW?..... page 20
- UPCOMING EVENTS..... page 22

## SCC ONTARIO CHAPTER MEETING

*" Sustainable production of Organic Cosmetic-Fragrance material in South Africa "*

- Vera Borsos-Matovina

**February 9th, 2023**

## 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](mailto:rob.castillo@univarsolutions.com) Please make your reservation before the Monday prior to the meeting.

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# SCC ONTARIO CHAPTER MEETING



*“ Sustainable production of Organic Cosmetic-Fragrance material in South Africa ”*

-Vera Borsos-Matovina

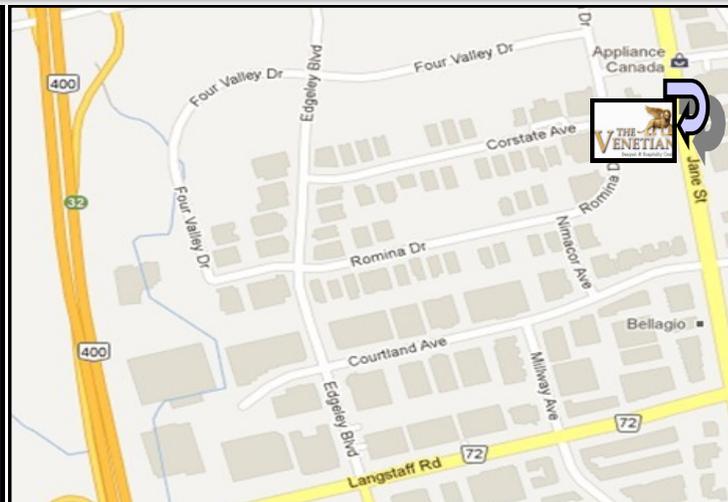


## February 9th, 2023

**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:

Sustainable production of Organic Cosmetic-Fragrance material in South Africa

Objective of presentation: Learning sustainable ways to produce Organic products practiced in South Africa.

A study tour to South Africa ( 4-12 November 2022) was organized by IFEAT ( International Federation of Essential oil and Aroma Trade). Participants went to 8 farms/producers in different regions of the country. The first 3 farms were in the Cape region (South-West). They grow and distill Fynbos oils. Fynbos are Indigenous plants in Cape region including: Buchu, Cape chamomile, Cape May, Cape Snow bush, Rooibos. They also grow and process Rosemary verbenone, Geranium roseum, Helichrysum crispum.

The next production region on the tour was Kwambonambi area where 31 farms made a COOP production of Organic and Conventional Tea Tree oil, Lemongrass oil, Lemon Tea Tree oil.

The following day the tour presented production of Organic Eucalyptus radiata oil and Community based Organic and Fair for Life production of Tea tree oil.

The last stop was at Panbult where participants saw production of Eucalyptus smitii and the fractionation of essential oils. They also produce cold pressed carrier oils such as: Marula, Macadamia, Baobab and Grape seed oil.

The tour ended at Thundra Private Game Reserve where elephants, lions, rhinos, leopards and buffalos roam the land.

### Biography:

Vera Borsos-Matovina holds Masters degrees in Plant Physiology from two faculties. The first degree she received in 1992 from the Faculty of Agriculture, University of Novi Sad, Serbia and the second degree she received in 1997 from the Faculty of Forestry, University of Toronto. She has been involved with SCC for more than 15 years and as a member of Ontario Chapter's board of directors for 13 years. Over the past 10 years she is responsible for advertising in the SCC Ontario News Letter. Vera is the founder of Plant's Power Inc. As part of her business, she researches historical and scientific literature concerning the therapeutic use, quality, and specific chemical properties of essential oils. She is currently teaching "Fragrances and their use in cosmetic formulations" at Seneca College Cosmetic Science postgraduate programme and has developed the Fragrance course from its conception in 2016. Vera can be reached at [vera@plantpower.ca](mailto:vera@plantpower.ca)





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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.





**ANNUAL HOLIDAY DINNER DANCE**  
**DECEMBER 2ND, 2022**



It truly was great to finally get back to our annual Holiday Dinner Dance for the first time in 3 years! We had over 225 enthusiastic members and spouses attending! All were in good cheer as we started the evening with the ever popular Antipasto Table. Attendees were then treated to an exotic Latin dance show by **Latin Energy!** From there we kept the party going with music from our DJ for the night, **Spin Entertainment.**

The Venetian Banquet Hall and Hospitality Center put together a delicious dinner that included Asparagus Risotto, Fillet Mignon with Cognac Sauce, Fillet of Salmon and ended the night with a sweets table that everyone really enjoyed.

Table favours for the night were generously donated by **The Ordinary.** We would also like to thank our sponsors for the evening; **Platinum**—Azelis Canada, Barentz, Essential Ingredients, Grant Industries, IMCD and The Ordinary. **Gold**— Charles Tennant and Brenntag. We would also like to thank all the companies listed below who generously donated gifts to the prize table!

Finally, we even managed to do some business as Area V director Lionel Ripoll installed our SCC Ontario Chapter officers for 2023; Rob Castillo, Elizabeth Peitsis, Tanya Baksh and Monika Melao. Congratulations!

**Thanks to all who attended and we look forward to next year!**

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2022 HOLIDAY DINNER DANCE**

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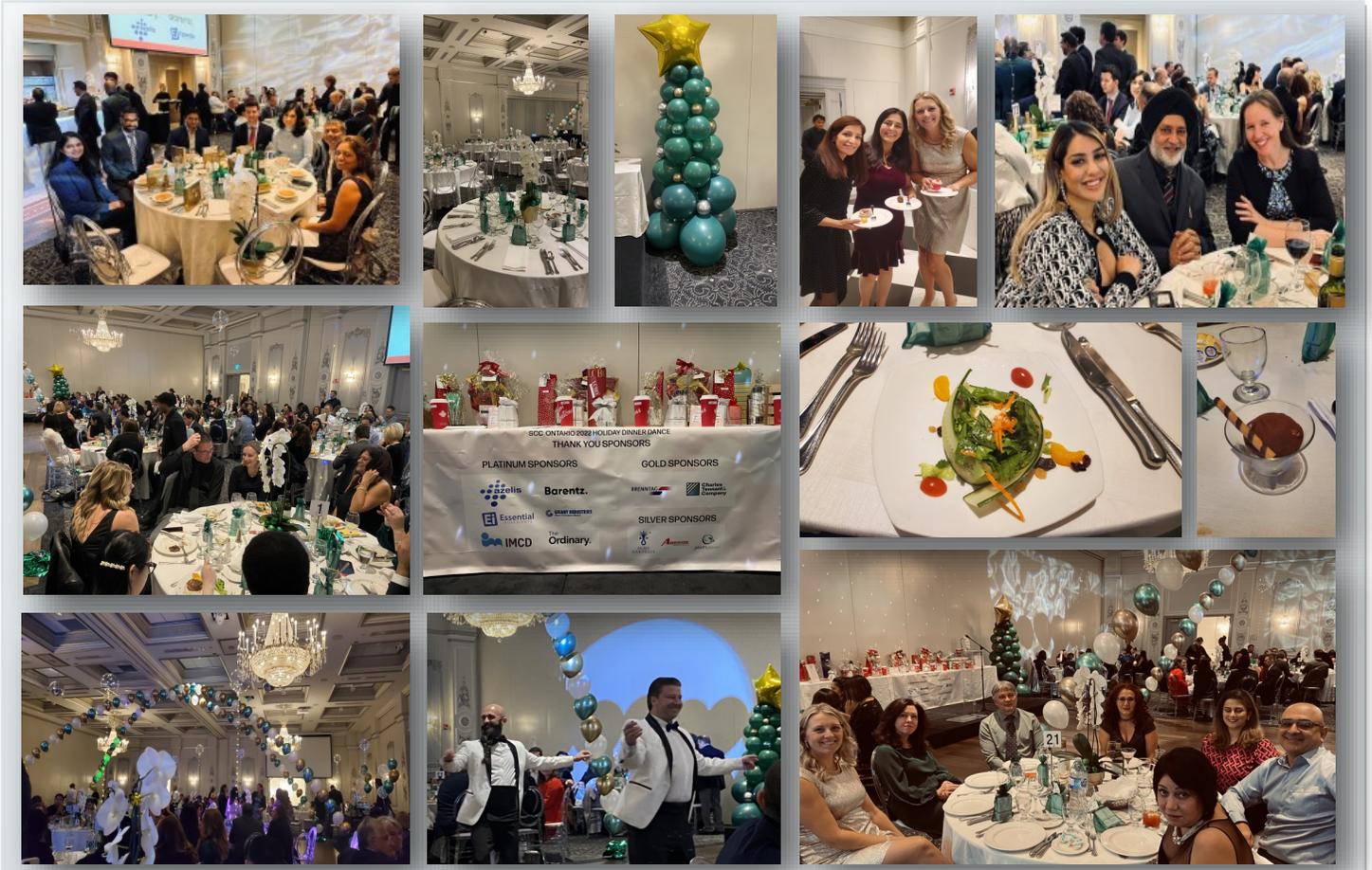


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VIEW A COMPLETE SET OF PICTURES TAKEN AT THE DANCE: [HERE](#)

## Holiday Dinner Dance Toy Drive a Big Success!!!

The SCC Ontario executive committee is proud to announce that this year's annual "Toy Mountain" toy drive at the Holiday Dinner Dance was a great success!!



Over 300 toys were collected from attendees for an extremely worthy cause. Members of the SCC Ontario organizing committee would like to extend their sincerest thanks to ALL guests who were able to bring gifts! Raffle tickets were given to all who participated which were entered into a draw where many prizes were given away, including a \$500 grand prize!



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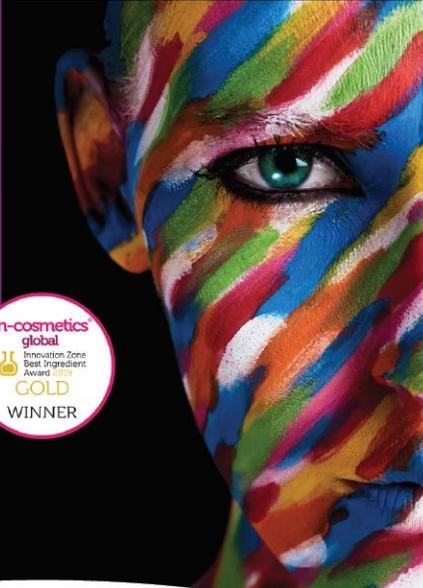
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## *A farewell from the chair...*



It's with honour that I may conclude my tenure as Ontario Chapter Chair for 2022. 2022 has been a special year, a year I believe will go down in history as the true start of our "recovery" from the wrecking ball that was Covid.

Seeing everyone in person again and finally finding our footing after a tumultuous couple of years was refreshing, to say the least. I'm proud of everyone who pulled through, fought to keep the SCC spirit going through adversity, and now emerging through the light at the end of the tunnel.

We had a great and fruitful year with four evening meetings, golf tournament, regulatory meeting as well as education day (with certificates)! Although we could not enjoy evening cruising due to some ongoing post Covid matters, the SCC board plans to resurrect it this year as an added fun gathering for our industry.

We wrapped the year with our sorely missed, highly requested holiday party. Despite so many hiccups throughout the years, the team did a wonderful job in orchestrating that. Many thanks to all involved.

It's my pleasure to pass the torch over to the next Chair (Elizabeth Peitsis), who I am certain will hoist it high and true. They have my full backing alongside the support of countless wonderfully motivated, intelligent, insightful members of our community. Adieu everyone, onwards and upwards into 2023, exciting times are ahead!

*Mary Seft*

Chair 2022, Ontario Chapter



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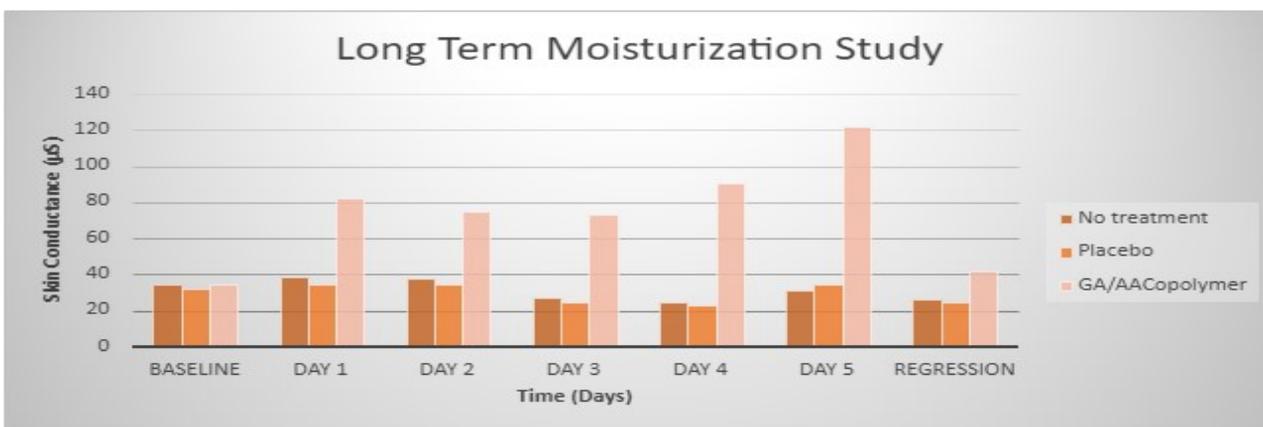
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## When was the last time you really looked at a spiderweb?

Author: Donna Vigilante

Did you ever notice how a spider web holds water after a rainstorm? And, how once you disturb the web the water is released? That is the principle behind the moisture matrix of glyceryl acrylate/acrylic acid copolymer technology. The moisture matrices created are called clathrates. A clathrate is a group of molecules enclosed within a cage from which they cannot escape until the structure is destroyed. When a series of cages are linked together a matrix is formed and with the addition of water, a moisture matrix is created.

Sounds simple but producing organic chemical structures that hold moisture is a challenge. A clathrate's water capacity depends on the size of the void in the cage molecule. The cage does not covalently bond with the water but holds it due to the combination of hydrogen bonding and van der Waals forces. The glyceryl acrylate/acrylic acid copolymer cage holds a remarkably high percentage of water. This leads to a moisturization quality far superior to classical moisturizing ingredients.



Glyceryl Acrylate/Acrylic Acid Copolymer provides significant increase in moisturization during treatment and after regression compared to placebo and untreated ( $p < 0.05$ ).

Glyceryl Acrylate/Acrylic Acid Copolymer is structured in such a manner that pH, ionic strength, surface moisture and temperature at the epidermal layer of the skin create a reversible clathrate. This reversibility brings about a moisture balancing effect. Rather than just rewetting or superfatting the skin, a reversible clathrate releases moisture where and when it is needed and avoids over moisturizing healthy skin. This occurs because glyceryl acrylate/acrylic acid copolymer products are skin activated. They are most effective in a pH range of 5.0 – 5.5, the usual pH range of skin.

*Continued on page 15*



begins here.



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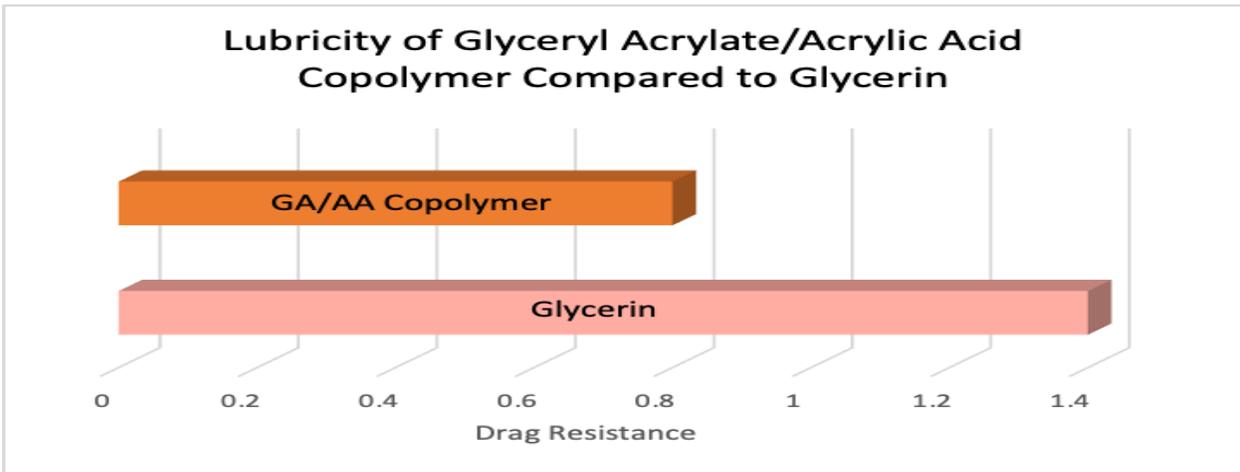
## SCC ONTARIO MERIT AWARD PRESENTED

Every once in a while the SCC board is delighted to be able to recognize and honour the contributions of one of it's own! On November 3rd, 2022 we were able to do so during our SCC Ontario Chapter meeting at the Venetian. It was with great pleasure that we were able to announce **Mr. Kashif Mazhar** as the recipient of the **SCC Ontario Chapter Merit Award!**

Kashif has been a vital member of the SCC board since 2009 and member of the chapter since 2005. Some of his contributions include helping with our annual Holiday Dinner Dance by organizing the gifts, assisting at the annual golf tournament as our resident photographer and more recently as our "social media" expert responsible for LinkedIn content as well our on-line platform. Kashif took on the mantle as our expert in all things related to "virtual meetings" over the last few years and keep the meetings running smoothly!

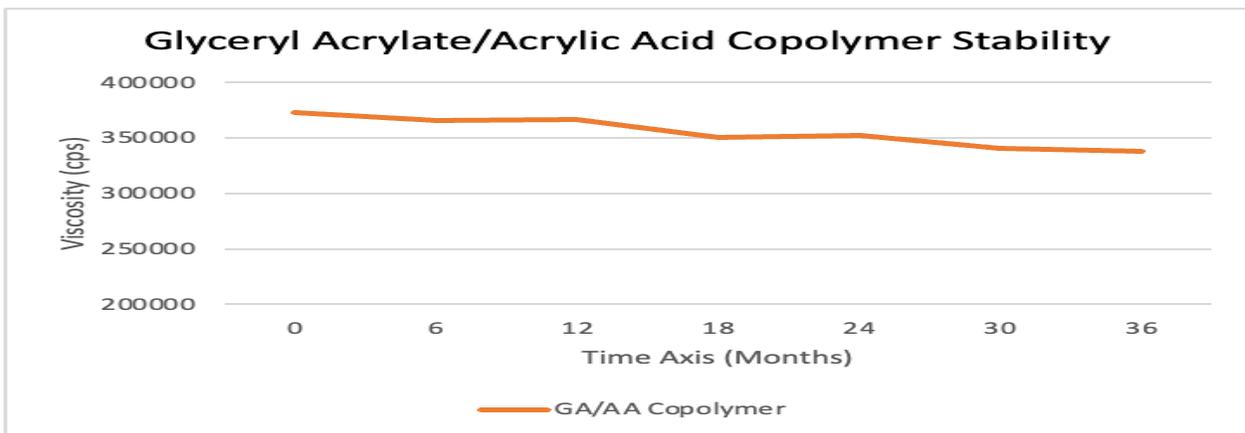


Kashif started out in the industry as an R&D chemist and QC Manager at Nettlewoods and Body Care Manufacturing for 9 years. From there he became the Sales Manager for Pearlchem for 5 years and currently is a partner at Vivachem Inc serving as Vice-President since 2013.



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Clathrates created from glyceryl acrylate/acrylic acid copolymer do not only work well on the skin. They also work inside your package stabilizing the emulsion. This stabilizing effect increases the shelf life of your product and ensures that it will look and feel the same each time your customer applies it. As you would expect from materials that help keep your product stable, glyceryl acrylate/acrylic acid copolymer is also stable. Research has shown the viscosity of this product to be very stable at various temperatures over time. Even after years, there is little noticeable change.



[Glyceryl Acrylate/Acrylic Acid copolymer products come in a variety of grades and offer many benefits including superior moisturization, slip, lubricity, suspension,](#) and exceptional after-feel. These products are easy to use and can be added during the water phase or post emulsion. They provide the formulator with flexibility to create their desired aesthetics in creams, lotions, foundations, face masks and more. Glyceryl Acrylate/Acrylic Acid copolymer products are non-oily, clear, water-soluble, cold processable, biodegradable, high in natural origin content, China listed, Halal and RSPO certified. So, only one question remains, where does your journey with glyceryl acrylate/acrylic acid copolymer begin?



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# November 3rd, 2022 Meeting Recap

For our final SCC Ontario meeting for 2022 held on November 3rd we were pleased to welcome Mr Donald Pretypaul from Ashland Specialty Ingredients. The topic for the evening was **“Impact of FDA monograph on sunscreen formulations; formulating with inorganic sunscreens”**



Mr. Pretypaul’s presentation discussed how 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. He went on to detail how the MU<sub>s</sub>T (Maximal Usage Trial) study conducted by the FDA that led to the proposed changes as well as the impact of those changes on future formulations.

Don’s talk gave an in-depth review of formulation strategies with zinc and titanium oxides. As well, Methodologies used to screen various types of inorganic sunscreens such as zeta potential, contact angle, particle size analysis, SEM microscopy and Hegman gauge were discussed and compared. The effect of particle size on SPF and skin whitening was also discussed. The presentation also outlined the differences between formulating inorganic sunscreens in O/W and W/O emulsions and their impact on water resistance and formulation stability. Finally, how the addition of polymers and SPF boosters to increase SPF and water resistance was discussed along with some *in vivo* SPF testing data. All in all, Mr. Pretypaul’s hope was that the work presented would

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 Pretypaul 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 Farleigh Dickinson University and Ph.D from Rutgers University.

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## INTRODUCING OUR 2023 ONTARIO CHAPTER OFFICERS

During our annual Holiday Dinner Dance on December 2nd we were pleased to have in attendance **Lionel Ripoll**, Area V Director from SCC National who installed our incoming officers for 2023.

Serving as our Chapter Officers for 2023 are;

Elizabeth Peitsis - Chapter Chair  
Monika Melao - Chair Elect  
Tanya Baksh - Secretary  
Rob Castillo - Treasurer

We wish them well in executing their duties for 2023!!



### 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

[bhalasz-  
z39@gmail.com](mailto:bhalasz39@gmail.com)

## Did You Know?

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### NEWSLETTER POSTING DATES FOR 2023

Here are the dates for 2023 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 12th
- ◆ February 9th
- ◆ April 27th
- ◆ August 24th
- ◆ October 5th



(or as close as we can get)

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

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Squirrels can survive a fall from any height, at least hypothetically

Squirrels, in theory, can survive a fall from an object of any height due to two factors: their size and their mass. A force (such as the force of gravity) is calculated by multiplying mass and acceleration. The acceleration due to gravity on Earth is always roughly  $9.81 \text{ m/s}^2$ , regardless of what object it is acting on. Squirrels are not very heavy—a grey squirrel only weighs about  $0.5 \text{ kg}$ —meaning that the force acting on a falling squirrel just isn't that big.

$$\text{Force} = \text{mass} \times \text{acceleration} = 0.5 \text{ kg} \times 9.81 \text{ m/s}^2 = 4.9 \text{ N}$$

We measure forces in a unit called "Newtons", named for Isaac Newton who gave us Newton's three laws of motion.

Compare this to, for example, a falling  $50 \text{ kg}$  human, which would be pulled downward with a force of about  $490 \text{ N}$ . A factor of 100 higher!

On top of being small, squirrels are fluffy and intuitively spread their bodies out when falling. This allows them to experience as much wind resistance as possible, slowing down their rate of descent. Some squirrels even use this fact to glide through the air. While gliding is not the same as flight, we nonetheless call them flying squirrels.

For these two reasons, the terminal velocity (fastest speed while falling) of squirrels is slow enough that they will, at least in principle, never fall so hard that they hurt themselves.

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## UPCOMING EVENTS

February 9th, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— “ <i>Sustainable production of Organic Cosmetic-Fragrance material in South Africa</i> ”- Vera Borsos-Matovina
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
December 1st, 2023 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance

## 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](mailto: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.

## NORTHERN HIGHLIGHTS STAFF

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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.



# NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



February 2023

Volume CVII

## 2023 Ontario Chapter Officers

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## IN THIS ISSUE...

- SCC ONTARIO REGULATORY UPDATE MEETING..... page 1,2
- A WELCOME FROM THE CHAIR..... page 4
- FEBRUARY 9TH MEETING RECAP..... page 7
- "Sustainability and the USDA Biopreferred @ Program"..... page 10
- DID YOU KNOW?..... page 13
- UPCOMING EVENTS..... page 19

## REGULATORY UPDATE MEETING

March 21st, 2023  
FREE for MEMBERS

### 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](mailto:rob.castillo@univarsolutions.com) Please make your reservation before the Monday prior to the meeting.

[Click Here To Register](#)



# REGULATORY UPDATE MEETING

March 21st, 2023



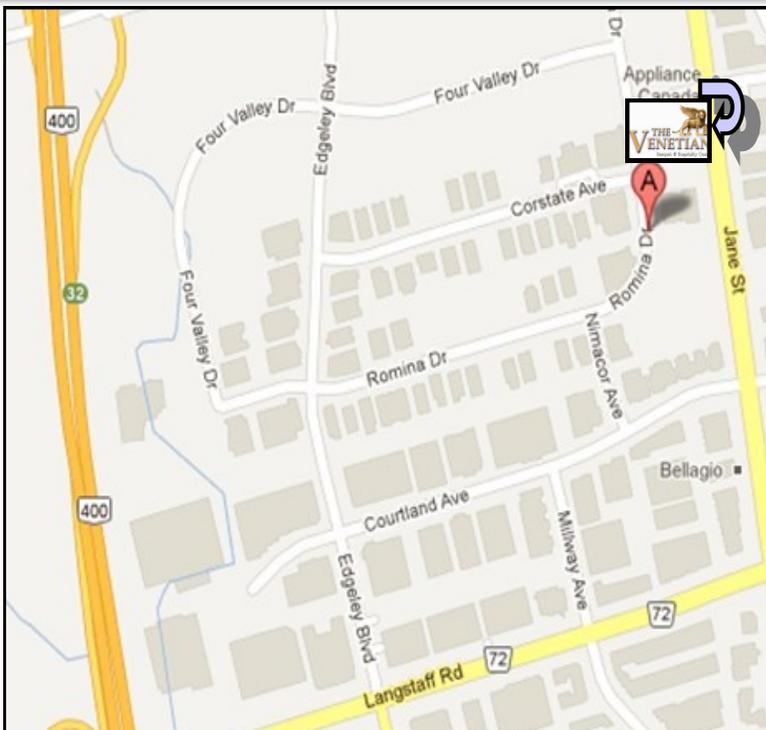
**Location:** The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960)

**Time:**

9:00 a.m.	Registration
9:30 a.m.	Session 1
10:15 a.m.	break
10:30 a.m.	Session 2
11:15 a.m.	Session 3
Noon	Lunch
1:00p.m.	Session 4
2:00 p.m.	Break
2:15 p.m.	Breakout Sessions
3:30 p.m.	Closing Remarks

**Fees:**

FREE for Members
Non-Members \$125
FREE for Students



## SCC Ontario Regulatory Day

The agenda for this years SCC Ontario Regulatory day is coming together and we invite you to register. We have noted below some key topics that will be included and our timeline for the day above;

- Welcome to MoCRA (Modernization of Cosmetic Regulations Act)
- Cosmetic Regulation Modernization and Proposed Hotlist Amendments (CHPSD)
- VOCs, Alternative Control Plans – Formulation Perspectives (ECCC)
- Plastic Regulations – What’s Coming Down the Pipe (labelling products/packaging as recyclable/compostable and recycled content minimum) – implications for cosmetic formulation and packaging
- An interactive session on PFAS and alternatives to PFAS (understanding the cosmetic ingredient landscape)

*Full Abstracts and Biography's to follow*



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# *A Welcome from the chair...*



To all the SCC Ontario affiliates, I am proud to once again represent our Chapter as your Chair for 2023.

Being a part of the SCC for over 10 years has provided me with valuable information and opportunities to advance in my career as well as network with interesting people in various roles.

The SCC encourages individuals to excel and develop their knowledge within the Cosmetic industry keeping members informed of changes, challenges and innovations within our industry.

I look forward to a great year leading the board and its members; continue ongoing learning/education in our prestigious, dynamic cosmetics/personal care industry.

I am here to support the needs of our Chapter and welcome any feedback suggestions for ongoing/continual success.

Sincerely,

*Elizabeth Peitsis*  
Chair 2023, Ontario Chapter



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## February 9th, 2023 Meeting Recap

For our first evening meeting for 2023 we were happy to host a local SCC Ontario board member, **Ms Vera Borsos-Matovina**. The subject of Vera's talk for the evening was "**Sustainable production of Organic Cosmetic-Fragrance material in South Africa**". Vera discussed how a study tour to South Africa was organized by IFEAT (International Federation of Essential oil and Aroma



Trade). She went on to detail how participants went to 8 farms/producers in different regions of the country. These included Cape region (South-West). They grow and distill Fynbos oils. Fynbos are Indigenous plants in Cape region including: Buchu, Cape chamomile, Cape May, Cape Snow bush, Rooibos. They also grow and process Rosemary vebenone, Geranium roseum, Helichrysum cryspum. The next production region on the tour was Kwambonambi area where 31 farms made a COOP production of Organic and Conventional Tea Tree oil, Lemongrass oil, Lemon Tea Tree oil. Vera brought along several examples to "show and tell" for the audience!

Their last stop was at Panbult where participants saw production of Eucalyptus smitii and the fractionation of essential oils. Finally their tour ended at Thundra Private Game Reserve where elephants, lions, rhinos, leopards and buffalos roam the land.

Vera Borsos-Matovina holds Masters degrees in Plant Physiology from two faculties. The first degree she received in 1992 from the Faculty of Agriculture, University of Novi Sad, Serbia and the second degree she received in 1997 from the Faculty of Forestry, University of Toronto. She has been involved with SCC for more than 15 years and as a member of Ontario Chapter's board of directors for 13 years. Over the past 10 years she is responsible for advertising in the SCC Ontario News Letter. Vera is the founder of Plant's Power Inc. As part of her business, she researches historical and scientific literature concerning the therapeutic use, quality, and specific chemical properties of essential oils. She is currently teaching "Fragrances and their use in cosmetic formulations" at Seneca College Cosmetic Science postgraduate programme and has developed the Fragrance course from its conception in 2016. Vera can be reached at [vera@plantpower.ca](mailto:vera@plantpower.ca)



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# Sustainability and the USDA BioPreferred® Program

Written by Liz Streland

*"We are all voyagers. What you carry with you and what you leave behind define who you are." – Lavati Lauaki Affimailagi, Samoa Voyaging Society*

The annual West Coast gray whale migration has ended. Every year, these marvelous animals swim from Alaska to the warm waters of Mexico to have their young. Together, they head back to Alaska to the delight of whale watchers along the way. Like many of you, I have been saddened by reports of whales washing up on beaches with pounds of plastic in their stomachs. This disturbing reality is a stark reminder of the role we can and must play in taking care of our world and leaving it a better place for generations to come.

One of the reasons I am so proud of being a part of our industry is because we have truly embraced this concept. Sustainability is not just a word that is tossed around. There are actions and examples aplenty demonstrating that sustainability is a significant and permanent part of the personal care industry landscape. Consumer demand for greener products is significant and growing. According to a survey by the Shelton Group conducted for UL Environment, 70% of Americans say they are searching for greener products. Sixty-six percent of consumers say they are willing to pay more for sustainable brands and brands are responding. According to a Nielson and Mintel report, 50% of new product launches in 2017 were based on sustainability versus just 10% in 2007.

## What is Sustainability?

A widely-accepted definition for the term "sustainable" comes from the Brundtland Report which was commissioned by the United Nations in 1987. It defines "sustainable development" as development that, "meets the needs of the present without compromising the ability of future generations to meet their own needs." So, how to achieve sustainable development? According to the Shelton Group survey, 56% of respondents said certifications make products more reputable. This validation from a reputable third party that a product is green makes a strong case with many consumers. Certifications offer instant credibility in a very visual way, i.e. on product packaging.

*ACCORDING TO THE SURVEY, THE FOLLOWING WERE IDENTIFIED BY CONSUMERS AS THE TOP CERTIFIED CLAIMS FOR INFLUENCING PURCHASE DECISIONS:*

- Coalition for Consumer Information on Cosmetics (CCIC): Leaping Bunny Not Animal Tested
- USDA Organic
- USDA Certified BioPreferred® Product
- NPA Certified

## What is the USDA BioPreferred® Program?

For this blog, we will briefly focus on the USDA BioPreferred® program. The USDA BioPreferred® program is a government-driven program managed by the United States Department of Agriculture. It was created by the 2002 Farm Bill (and expanded as part of the 2014 Farm Bill) to increase the purchase and use of biobased products in order to (1) reduce reliance on petroleum, (2) increase the use of renewable agricultural resources, and (3) contribute to reducing adverse environmental and health impacts.

With more and more consumers searching for sustainable purchasing options, the USDA BioPreferred® program helps to facilitate the identification of such options by providing a USDA Certified Biobased Product label



*Continued on page 14*

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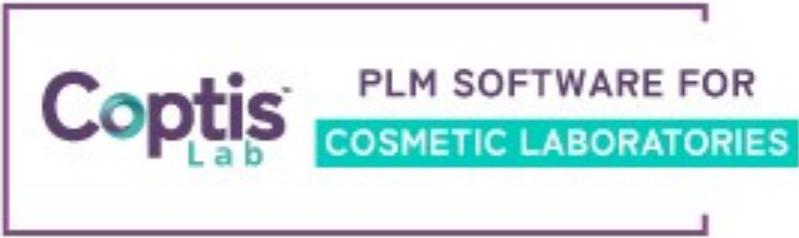
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Charles Darwin postulated that Toucan's massive beaks might be for sexual selection purposes. Other scientists have theorized that it could be for shows of intimidation, for actual defense or for peeling fruit. Given the beak's serrated edge, it was once thought that toucans used it to catch and eat fish. We now know that toucans are almost entirely fructivorous, although they do opportunistically eat insects, lizards, and even small birds.

Another thing we now know is that the main function of a toucan's beak is actually **thermoregulation!** Just like elephants do with their ears and dogs with their tongues, Toucans rely on their big beaks as heat sinks, to maintain their homeostasis and save them from overheating.

Bird beaks across the globe follow a trend called Allen's Rule, which proposes that the appendages of endotherms (warm-blooded animals) are smaller, relative to body size, in colder climates, in order to reduce heat loss. **A study** of 214 bird species from every continent found strongly significant differences in their beak sizes according to latitude and local environmental temperatures. From penguins to parrots, the species that live in colder places have smaller peckers.

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The label assures a consumer that the product contains a USDA-verified amount of renewable biological ingredients with minimum biobased content standards for over 100 categories. Twelve of those categories (along with their respective Minimum Biobased Content levels) are personal care-related including:

Product Category	Minimum Biobased Content
Bath Products	61%
Cuts, Burns, and Abrasions Ointments	84%
Deodorants	73%
Foot Care Products	83%
Shampoos	66%
Conditioners	78%
Hand Cleaners	64%
Hand Sanitizers	73%
Lip Care Products	82%
Lotions and Moisturizers	59%
Shaving Products	92%
Sun Care Products	53%
Topical Pain Relief Products	91%

The qualifying content level varies depending on the product and that level is included on the label. For example, the label below would be for a product that is 78% biobased. Referring to the personal care categories, this could be a bath product, deodorant, shampoo, conditioner, hand cleaner, lotion or sun care product. However, it could not be a cut, burn or abrasion ointment, foot care, lip care, shaving product, or topical pain relief product, because it does not meet the minimum threshold(s) specified.



**It is important to note that once the minimum threshold is met, it is permitted to include the precise percentage of the specific product even if that percentage is higher than the minimum threshold for that category.** For example, for the sun care category, it is possible to have a sun care product with the USDA Certified Biobased label showing 53% (the minimum), 54%, 55%, 60%, etc. so long as the testing confirms the level.

The USDA BioPreferred® Program uses test method ASTM D6866 to identify the bio-based content in products. ASTM D6866 is a method that measures 14C/ 12C ratios. 14C is produced in the atmosphere and fixed by plants, but has a half-life of 5,700 years. Petroleum-based materials contain less than 1% of the amount of 14C found in bio-based materials. Bio-based content is calculated using the ratio of “new” organic carbon (plant or agricultural-based) to total organic carbon (“new” organic carbon + “old” or fossil fuel-based organic carbon). The ASTM D6866 test method uses only organic carbon to determine bio-based content, i.e. inorganic carbon and water are excluded.

As of December 2015, USDA has certified over 2,500 biobased products.

For more information on the USDA BioPreferred® Program please go to the website: [www.biopreferred.gov](http://www.biopreferred.gov)

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



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

[bhalas-z39@gmail.com](mailto:bhalas-z39@gmail.com)

# 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.

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## NEWSLETTER POSTING DATES FOR 2023

Here are the dates for 2023 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 12th
- ◆ February 27th
- ◆ April 27th
- ◆ August 24th
- ◆ October 5th



(or as close as we can get)

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

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## UPCOMING EVENTS

March 21st, 2023 The Venetian, Vaughan Ontario	SCC Ontario Regulatory Update 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 12, 2023 Lionhead Golf & Conference Centre	SCC Ontario Golf Tournament
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
December 1st, 2023 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance

## 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](mailto: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.

## NORTHERN HIGHLIGHTS STAFF

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## MEMBERSHIP

For those who would like to become members, yearly fees are \$170US. 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.

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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.



# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter



May 2023

Volume CVIII

### 2023 Ontario Chapter Officers

#### Chair

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IMCD Canada Limited  
99 Summerlea Rd  
Brampton, ON  
L6T 4V2  
note4liz@yahoo.ca

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mamelao@acme-hardesty.com  
Ph: (437) 970-9359

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Ph: (647) 674-5833  
tbaksh@essentialingredients.com

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Ph: (416) 726-2702  
mseifi@grantinc.com

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Dorothy Maraprossians  
dorothy.maraprossians@azelis.com  
Ph: (905) 601-8766

## IN THIS ISSUE...

- SCC ONTARIO MEETING..... page 1,2
- REGULATORY DAY 2023 RECAP..... page 5
- SCC GOLF TOURNAMENT (NEW LOCATION!)..... page 8
- "Confessions at the Beauty Counter"..... page 11
- SENECA CAPSTONE 2023..... page 12
- DID YOU KNOW?..... page 16
- UPCOMING EVENTS..... page 19

### SCC ONTARIO CHAPTER MEETING

*"The Impact of Natural, Clean Beauty and AI on Formulating in 2023"*

-Perry Romanowski

**May 25th, 2023**

### 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](mailto:rob.castillo@univarsolutions.com) Please make your reservation before the Monday prior to the meeting.

**Click Here To Register**

# SCC ONTARIO CHAPTER MEETING

*“ The Impact of Natural, Clean Beauty and AI on Formulating in 2023 ”*

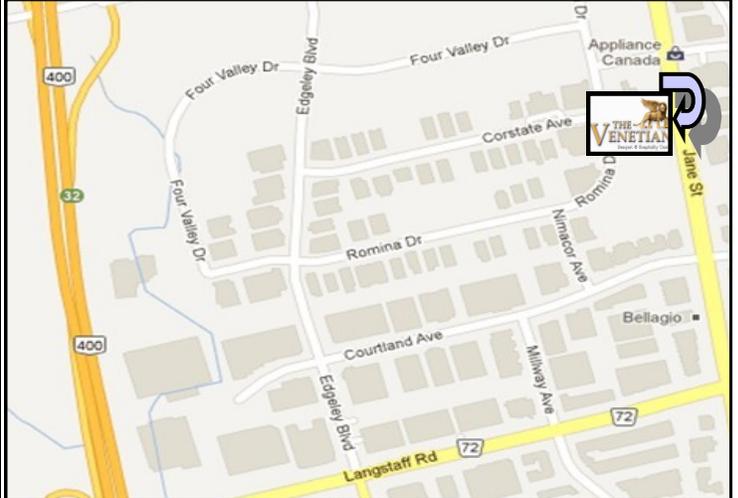
-Perry Romanowski

**May 25th, 2023**

**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

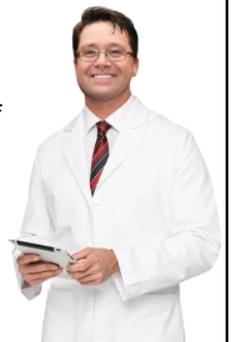


## Abstract:

There are two big topics that will impact formulators in 2023 and beyond, Natural/Clean Beauty and Artificial Intelligence (AI). Natural cosmetics took root in the 1970's but really started to grow in the 1990's. After facing notable performance problems the movement shifted to Clean Beauty where it has become a popular marketing positioning for numerous new brands. However, with no legal definitions, companies & retailers have been left to define it for themselves. This is both good and bad as it allows companies to create products the way they want but it also opens them up to potential lawsuits. In this talk we will look at the development of Natural and Clean beauty products. We'll cover what it means in the marketplace, how successful companies are implementing it and what formulators need to do to adapt their formulations the clean and natural beauty consumer of tomorrow. We also look AI and the impact that it may have on formulating products now and in the future.

## Biography:

Perry Romanowski is an independent cosmetic chemistry who has spent the past 30 years developing formulas in the personal care and cosmetic industry. His primary focus has been on hair and hair-related products. He is currently vice president of Element 44 Inc which specialized in science education. He conducts an online course called Practical Cosmetic Formulating that provides cosmetic chemists continuing education across a broad range of formula categories. He is currently the Chair of the IFSCC Education Committee and is a former president of the Society of Cosmetic Chemists (SCC). Previously, Romanowski worked for Alberto Culver, last serving as a senior project leader for hair care innovation. Additionally, he has made appearances on popular TV shows including the Dr. Oz show and the Rachel Ray show.



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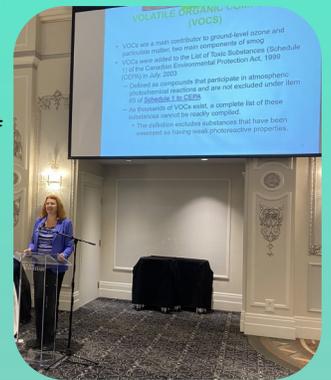
# Regulatory Day 2023

Recap

We had a very busy day on March 21st at the Venetian. The free event for members started with a virtual talk from **John Chave** [Director General, Cosmetics Europe] entitled **“Profiling Microplastics Restriction in Europe – Possible Implications for Cosmetic Formulation Beyond Europe”**. The presentation gave an overview of the proposed Microplastics Restriction in Europe, including specific elements applicable to the cosmetics industry. John explained the definition of microplastics included in the restriction, relevant derogations, timelines, and additional obligations with regards to labelling. The aim of the presentation was to be able to help companies exporting into the EU understand how they can prepare for the entry into the effect of the EU Restriction, and outline insights and possible implications for similar microplastics measures that may be adopted in the future in Canada or elsewhere.



We then moved to **“US Modernization of the Cosmetics Regulation Act – Changes and Impacts for Cosmetic Formulation Supply Chain”** where **Dr. Craig Weiss** [Co CEO, Consumer Product Testing Company] discussed the “Modernization of Cosmetics Regulation Act of 2022” (commonly known by its acronym “MoCRA”). The presentation went into detail, explaining and defining the terminology used as well as reviewing the basic requirements under MoCRA and finally, the timing and effective dates for publication of the required Notice of Proposed Rulemaking and Final Rule were covered.



Before lunch **Mary Elen Perkin** [Manager, Consumer and Cleaning Products, Industrial Sectors and Chemicals Directorate, Environment Climate Change Canada] presented **“VOCs in Certain Products Regulations Update and Alternative Control Opportunities – A Formulation Perspective”**.

Mary Elen discussed new regulatory limits for the Volatile Organic Compound Concentration Limits for Certain Products Regulations that will come into effect on January 1, 2024.



After lunch we had a second virtual presentation by **Nicholas Shipley** [Manager, Risk Management Strategies Division, Consumer and Hazardous Products Safety Directorate, Health Canada] and **Reid Bolan** [Regulatory Policy and Risk Management Advisor, Risk Management Strategies Division, Consumer and Hazardous Products Safety Directorate]. Their presentation focused on the recently published proposal to update the Cosmetic Regulations which seeks to strengthen the labelling requirements for cosmetics by introducing a requirement to disclose certain fragrance allergens on cosmetic labels. They also outlined details regarding the upcoming Hotlist consultation, further to the Notice to Stakeholders published late last year.

Finally our moderator for the day **Beta Montemayor** [Vice-President, Director of Science, Regulation and Market Access, Cosmetics Alliance Canada] presented **“Polyfluorinated Alkyl Substances (PFAS) – The Writing is on the Wall (Getting Ready for the Future)”**. Beta explained how PFAS or Polyfluorinated Alkyl Substances are a very large group of substances that are under significant scrutiny given their properties to potentially hang



around and build up in the environment. More specifically how some PFAS's are used in cosmetic and personal care products for a variety of functional attributes. Although the Government of Canada is currently assessing of these substances, Environment and Climate Change Canada has advanced a proposal to add PFASs to the List of Persistent Organic Pollutants (POPs) under the Stockholm Convention.





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Golf & Lunch only \$225

Dinner—only \$125

**Registration Closes July 3, 2023**

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Pre-registration is required for this event. Only on-line registrations will be accepted. Please no email registrations.

When Registered Payments can be sent to: The SCC Ontario Chapter, c/o Rob Castillo, 64 Arrow Road. Weston ON M9M 2L9

Should you have any questions or concerns please contact Gagan Jain.

Email Gagan at [gjain@renechem.com](mailto:gjain@renechem.com) or phone at (647-926-3674).

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# Confessions at the beauty Counter

Written by Jacklin Hoffelt

Despite our best efforts to “educate” consumers, they will use the wrong products.

I thought I'd share a chat I had with my friend who works at a High End Beauty Counter.

Mr. Craig Ford did a great job on his blog on [Viscosity, Rheology and Rheology Modifiers](#), which would have been my topic as well. Nevertheless, the insight I would like to share on the SCC Blog comes from a great friend that works the luxury skin care department and has the best confessions at the beauty counter:

In this case, it wasn't so much a confession – more like a declaration. Even included a proud chest and a big smile.

**At the beauty counter, I was helping a middle-aged woman, the daughter of the declarant. As the sale of traditional skincare items mounted, the mom seemed to disapprove of the transaction. Her lips were beginning to purse. Felt like the mom viewed it as her daughter throwing money away – when out it came, “Well, I just wash my face with Dawn dishwashing soap. I have for years.”**

So resolute. She even had a twinkle in her eye.

## **What. A. Terrible. Idea.**

Dawn dish detergent ingredients: water, sodium lauryl sulfate, sodium laureth sulfate, c12-14-16 dimethyl amine oxide, SD alcohol, sodium chloride, PPG-26, pei-14 PEG-10/PPG-7 copolymer, cyclohexanediaamine, phenoxyethanol, magnesium chloride, methylisothiazolone, fragrance, yellow 5, blue 1.

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*Continued on page 17*

# Seneca Capstone Projects 2023

We had another round of amazing Teams for the Capstone projects this year! In 13 weeks they were able to create a Facial Oil for ASRI Beauty, a Hair Texturizer for Ego Salon, a Shea Butter Hair Stick for Seize the Shea and an Oil Cleansing Bar for SIQ Beauty. We also had a student develop a Marketing campaign for NORM (Natural Organic Matters).

The Award winners are as follows:

- Project Manager – Cynthia Li (Ego Salon) sponsored by Azelis
- Packaging – Adriana Merchan (Ego Salon) sponsored by Essential Ingredients
- Formulation – Sydney Szeto (Seize the Shea) sponsored by Azelis
- Marketing – Raquel Wakida (SIQ Beauty) sponsored by Dempsey
- Regulatory – Emily Francoeur (Ego Salon) sponsored by Andicor
- Quality – Amy Glover (Seize the Shea) sponsored by Quadra



Team Award went to Seize the Shea and was sponsored by Andicor, Azelis, Barentz, Croda, Farachem, and IMCD  
 Team Members: Eunice Barnuevo, Amy Glover, Kaitlyn Ham, Laura Martin and Sydney Szeto.



Thank you to everyone for their continued support of the Seneca Cosmetic program! You gladly answer student questions, send samples, give lectures and hire our students! We'd also like to thank StickerBeat for providing labels and Max Packaging Solutions for making our cartons. We couldn't do this without all of you supporting us!

We would also like to thank our guest speakers for the evening! **Celine Tadrissi** Spa Director, owner, and founder of the award-winning Hammam Spa by Cēla. **Ira Sherr**, Manager, Seneca Centre for Innovation in Life Sciences (SCILS) **Kelle Jacob** from ASRI Beauty and **Linda Stephenson**. Finally **Sharon Robertson** was our Master of Ceremonies for the evening!





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*Did You Know?*

**Squirrels can survive a fall from any height, at least hypothetically**

Squirrels, in theory, can survive a fall from an object of any height due to two factors: their size and their mass. A force (such as the force of gravity) is calculated by multiplying mass and acceleration. The acceleration due to gravity on Earth is always roughly 9.81 m/s<sup>2</sup>, regardless of what object it is acting on. Squirrels are not very heavy—a grey squirrel only weighs about 0.5 kg—meaning that the force acting on a falling squirrel just isn't that big.

$$\text{Force} = \text{mass} \times \text{acceleration} = 0.5 \text{ kg} \times 9.81 \text{ m/s}^2 = 4.9 \text{ N}$$

We measure forces in a unit called "Newtons", named for Isaac Newton who gave us Newton's three laws of motion.

Compare this to, for example, a falling 50 kg human, which would be pulled downward with a force of about 490 N. A factor of 100 higher!

On top of being small, squirrels are fluffy and intuitively spread their bodies out when falling. This allows them to experience as much wind resistance as possible, slowing down their rate of descent. Some squirrels even use this fact to glide through the air. While gliding is not the same as flight, we nonetheless call them flying squirrels.

For these two reasons, the terminal velocity (fastest speed while falling) of squirrels is slow enough that they will, at least in principle, never fall so hard that they hurt themselves.

**Compliments of <https://www.mcgill.ca>**

Over on the Dawn dish soap site, there are several alternative uses listed. For example, “how to clean greasy wheels and rims.” Instructions include a dilution ratio of one teaspoon of dish liquid per one gallon of hot water to wash a car’s road beaten tires and rims. Using the soap as a face wash doesn’t even come close to that dilution ratio.

The section’s final sentence is, “Excess residue may lead to etching on certain materials.” If a rubber tire or steel rim can have “etching” due to lack of thorough rinsing, what could this product do to poorly rinsed human skin?

On the flip side, I found some YouTubers and various “beauty” sites, such as MakeupAlley.com, supporting Dawn as a face wash:

**“... I was the victim of WW2 [Or W-D40?!] on my face. I tried everything. Nothing seemed to work. Then I asked the one person who has always had amazing skin ... He went into his kitchen and pulled out a bottle of blue Dawn. ... Thank you, Dawn!”**

Sodium lauryl sulfate and sodium laureth sulfate are known eye and skin irritants. What if she got the soap got in her eyes? Regarding skin contact, the Safety Data Sheet states, “Skin protection: Not normally needed. For prolonged or repeated skin contact use suitable protective gloves. Recommended gloves include rubber or neoprene.” Yikes!

Dawn dish soap is not meant for facial care. No matter what she says, it is not working for her!

## WHERE YOU FIT IN?

Despite the best efforts of P&G’s marketing department, consumers will make their own uneducated decisions. In our workplace, many of us have Safety Data Sheets’ readily available for our information.

Perhaps, when given the opportunity to do so, we can educate consumers as consumers ourselves (C2C). Using our expertise in the field to inform friends, family members and neighbors (who ask our opinion of course) why we have decided to use this product over that one – which I believe can really empower them to make educated purchases.

Also, **SmartLabel** is answering that call in that they give consumers easy and instantaneous access to detailed information about thousands of products consumed daily.

### About the author

Jacklin Hoffelt is presently a Technical Sales Manager Personal Care for SNF Holding Company. She holds a Master of Business Administration from the University of Texas at Dallas and a Bachelor of Science degree from Texas A&M University. Her passion was found in the cosmetic science industry in 1994 and has enjoyed continuing her education with various companies along the way.

Jacklin has served the Society of Cosmetic Chemists on the National level these activities include: Area III Director, Committee on Chapter Affairs, Nominations & Elections, Constitution & Bylaws. She has also volunteered for the SCC at the local level for the Southwest Chapter which include: SWSCC Chair, SWSCC Chair Elect, STEM/Minders 2017, Awards Chair 2015, SWSCC Suppliers’ Day and the Area III Webinar 2016. In her spare time, Jacklin is a Girl Scout Leader to thirteen Brownie girls ages 8-9.



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## UPCOMING EVENTS

May 25th, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— Natural Clean Beauty 2023 — Perry Romanowski
July 12, 2023 Lionhead Golf & Conference Centre	SCC Ontario Golf Tournament 
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
November 24th, 2023 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance
February 1st, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— TBA
March 6th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Regulatory Day
May 30th, 2024 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](mailto: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.

## NORTHERN HIGHLIGHTS STAFF

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## MEMBERSHIP

For those who would like to become members, yearly fees are \$170US. 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>

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# NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



August 2023

Volume CIX

## 2023 Ontario Chapter Officers

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## IN THIS ISSUE...

- SCC ONTARIO EDUCATION DAY..... page 1,2
- 2023 ANNUAL GOLF TOURNAMENT RECAP..... page 5
- *“Color in Cosmetics- The Importance of Dispersion”*..... page 8
- MAY MEETING RECAP..... page 11
- 2024 SCC ONTARIO CHAPTER BOARD ELECTION..... page 13
- SENECA SCHOLARSHIP THANK YOU NOTES!..... page 17
- DID YOU KNOW?..... page 19
- UPCOMING EVENTS..... page 21

## SCC ONTARIO EDUCATION DAY

“Fundamental Cosmetic Science Terminology”

-Dr. Ricardo Diez

**September 21st, 2023**

### 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 send a cheque to [rob.castillo@univarsolutions.com](mailto:rob.castillo@univarsolutions.com) Please make your reservation before the Monday prior to the meeting.

**Click Here  
To Register**

# SCC ONTARIO EDUCATION DAY

## “Fundamental Cosmetic Science Terminology”

-Dr. Ricardo Diez

**September 21st, 2023**

<b>Location:</b>	The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3
<b>Fees:</b>	SCC Members—\$100 (Pre-Registered)  Non-Members \$125 (Pre-Registered)  Students \$50 (pre-Registered)
<b>Schedule</b>	See below Noon– Lunch (provided)



### Fundamental Concepts in Personal Care Products for Non-Technical People

The main purpose of this presentation is to familiarize professionals working on marketing, sales, regulatory and procurement with as a series of technical terms and the lexicon often used in the industry. The presentation will also be valuable to technical people that have recently joined the industry.

The presentation is divided in four well defined parts, connected but different from each other.

#### **Part 1. Materials and Their Interactions**

Using coconut oil, olive oil and bacon fat as the starting point, we will explain in a rather simple manner and with simplified drawings the nature of the most common materials used to make personal care products.

We will also explain how during the formulation process, the materials physically interact in a selective manner creating the series of structures that determine the cosmetic performance and attributes of the products.

#### **Part 2. Terminology**

Are foam and lathering the same? Are mildness and irritation the same? Are skin hydration and moisturizing the same? Can hair be hydrated? Do cosmetic actives work for real? Can a cream or lotion be oil-free?

These are just a few of the examples of the lexicon that will be explained.

#### **Part 3. The Formulations.**

The composition of several products in the rinse-off and leave-on categories will be explained in simple terms, showing the evolution of the structures of the products from their initial state in the container to what happens during their usage, to the final residue, if any, left on hair or skin.

#### **Part 4. Hot Topics**

Here we will address a variety of topics from 1,4 Dioxane, to the safety of ethoxylated materials, to the various definitions or concepts behind natural, sulfate-free and clean beauty products. We will also challenge some common claims.

### AGENDA

8:30 am - 9:00 am	Registration
9:00 am - 10:30 am	Part 1
10:30 am - 10:45 am	Break
10:45 am -12:00 pm	Part 2
12:00 pm - 1:15 pm	Lunch
1:15 pm - 2:45 pm	Part 3
2:45 pm - 3:00 pm	Break
3:00 pm - 3:45 pm	Part 4
3:45 pm - 4:15 pm	Open Q&A

**Ricardo Diez, Ph.D**, is currently an Adjunct Professor at Rutgers University (NJ) where he has been teaching for about ten years two Applied Cosmetic Science courses in the Master of Business and Science.

He has more than four decades of experience in Research and Product Development in the industry in both consumer product companies (P&G, Dial Corp. and Chanel) and raw material producers (Miranol, Stepan, Witco and Huntsman. He has technology patents in both areas.

He also gives courses and seminars for the SCC and IFSC, and for the Center for Professional Advancement.



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**OUR FLIGHT WINNERS!**

1<sup>st</sup> Place: Team 9A with a score of **Even (72)** par  
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 Chris Daraska  
 David Jackson  
 Marx Pion

2<sup>nd</sup> Place: Team 18B with a score of **3 (75)** over par  
 Lise Campeau  
 David Thomson  
 Doug Morin  
 Marina Dritsos

Long Drive Ladies' #9: Helen Fei  
 Long Drive Men's #2: Marx Pion  
 Closest to the Pin Ladies' #8: Lisa Fryer  
 Closest to the Pin Men's #17: Erle Moffat  
 Closest to the Rope #10: Mandy Billings



## 2023 Annual Golf Tournament a Great Success!

While last year was a scaled back event as we eased our way back from COVID this years golf event was no holds barred!! With over 80 golfers and more attending for dinner our tournament was back and better than ever. Firstly, after some 15 years in Bolton we have moved up to Lionhead Golf and Conference Centre in Brampton. As a more central location for many it was well received as our SCC squad tackled their toughest course, Legends! The weather could not have been better as all enjoyed a wonderful day of food, fun and leisure. Another first this year was the introduction of sponsors to the tournament. We would especially like to thank our valued "Silver" level sponsor for the day **Vivachem** as well as the sponsors of our 5 hole challenges: **Andicor, Essential Ingredients, Quadra, IMCD and Vivachem.** We would also like to thank our long-time organizer Gagan Jain for all the work he put in to make this event go as smoothly as it did. Thanks Gagan!



Please select the "photo gallery" button to see a full set of pictures for the day



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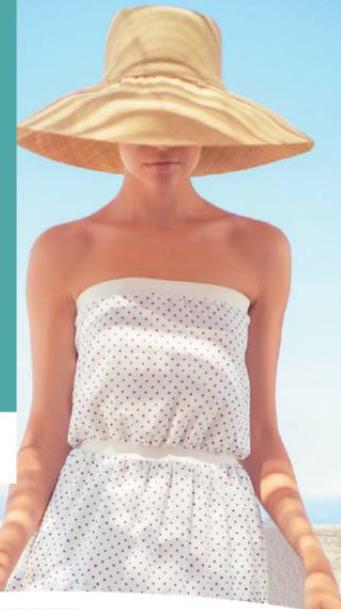
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# Colors in Cosmetics – Color Measurement and The Importance of Pigment Dispersion

Written by Kelly Dobos

The incorporation of color in cosmetic and personal care products is part art and part science. What seems like a simple and fun exercise in pigment blending is reliant on a complex set of decisions. Factors such as the regulatory environment, cost, and stability as well as physical and chemical properties of each colorant all play an essential role in determining success in product development. Dispersion is one most important processes in utilizing pigments to create color cosmetics.

## Color Theory

To begin a discussion on color theory, we can start with the work of Alfred Henry Munsell in the early 1900s. Munsell, an artist and professor at the Massachusetts Normal Art School (known today as the Massachusetts College of Arts and Design), was perplexed that there was no easy way for artists to communicate color in a systematic and consistent manner similar to the way in which music was transcribed. The relationships between these three attributes can be portrayed in a three-dimensional space as a color sphere. Sophisticated spectrophotometers can be used to precisely measure these attributes using the CIE-Lab (pronounced see lab) color space, which was created by the International Commission on Illumination (CIE) in 1931. CIE-Lab measurements are commonly used to control quality of cosmetic pigments and finished goods.

## Color Perception

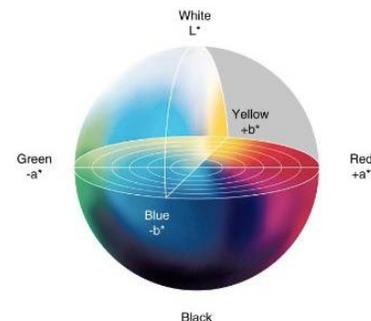
There are three factors involved in color perception – a light source, the interaction of light with an object and the response of a standard observer. Our light source is the visible portion of the electromagnetic spectrum. The standard observer is a typically the human eye or a spectrophotometer.

## Attributes of Color

There are three main attributes used to describe color.

- **Hue:** Commonly referred to as shade or color. Descriptors for hue are simply colors like red, green, yellow and blue. However, there are many degrees of differentiation in color. For example, red can be yellow shade or blue shade.
- **Brightness:** Or value, is a measure of how light or dark the color is.
- **Intensity:** Measures the colors saturation, how weak or strong it is. This attribute is also referred to as chroma.

The CIE-Lab color difference equation calculates coordinates to locate a point in the in the three-dimensional sphere model. The coordinates are for the  $L^*$ ,  $a^*$  and  $b^*$  axis.  $L^*$  is a measure of lightness to darkness.  $a^*$  is the red to green axis and  $b^*$  is yellow to blue. Color differences are calculated from these coordinates and represent the distance between the target and trial along each axis.



*Article continued on page 14*

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# May Meeting 2023

Recap

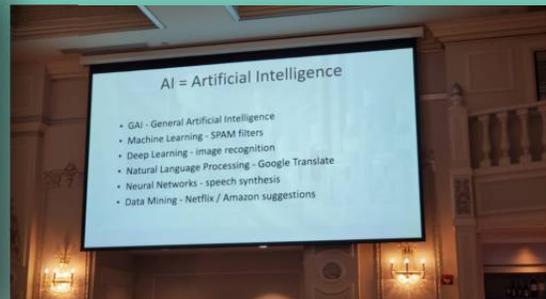
For our final SCC Ontario chapter meeting before the summer break we were extremely pleased to have as our guest speaker for the evening **Perry Romanowski**. For many in the personal care industry Perry needs no introduction as his unique approach, provocative topics and knowledge of the industry always make for an entertaining talk! Our May meeting was no exception as Perry tackled the complex topic "Natural/Clean Beauty and Artificial Intelligence (AI).



Perry's presentation discussed the roots of the "natural cosmetics" phenomenon, it's evolution over the past 50 years and how the movement shifted to Clean Beauty where it has become a popular marketing positioning for numerous new brands. However, with no legal definitions, companies & retailers have been left to define it for themselves. This is both good and bad as it allows companies to create products the way they want but it also opens them up to potential lawsuits. Perry went on to talk in more detail about the development of Natural and Clean beauty products. He covered what it means in the marketplace and how successful companies are implementing it and what formulators should do to adapt their formulations for the clean and natural beauty consumer of tomorrow. Finally, Perry discussed AI and the impact that it may have on formulating products now and in the future.



All in all it was a very fun evening and we were even treated to some juggling and music. Again, those who know Perry, this comes as no surprise. Check out Perry's rendition of an AI generated song about "Clean Beauty"!





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**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.



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## 2024 SCC Ontario Chapter Board Elections

It is time for the election of the 2024 SCC Ontario Chapter Board Members. We have one position open for election this year: Chair-Elect.

**As a member of the SCC Ontario Chapter you will soon be sent specific instructions on how to cast your electronic vote!**

Elections are open to all General Members of the SCC Ontario Chapter. If you have any questions please contact one of the current board members listed below. The newly elected board members will be introduced at the November 2nd, 2023 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

### 2023 SCC Ontario Chapter Board Members

Position	Name	Phone	Email
Chair	Elizabeth Peitsis	(647) 242-7443	note4liz@yahoo.ca
Chair-Elect	Monika Melao	(437) 970-9359	mamelao@acme-hardesty.com
Treasurer	Robert Castillo	(416) 740-5300	rob.castillo@univarsolutions.com
Secretary	Tanya Baksh	(647) 674-5833	tbaksh@essentialingredients.com

### 2024 Ontario Chapter Candidate

#### CHAIR ELECT

Candidate: Shahin Kalantari

As a candidate for the position of Chair-elect of the Society of Cosmetic Chemists Ontario Chapter, I am proud to highlight my extensive experience within the organization.

Since 2007, I have served as a dedicated board member, and I have had the privilege of holding the position of Chair on multiple occasions.

This longstanding involvement has provided me with a deep understanding of the society's mission and objectives, as well as the challenges and opportunities it faces.

## Dispersion

Let's get a few definitions out of the way:

- **Classical Pigments** are insoluble in the medium in which they are used primarily used in decorative color cosmetics.
- **Dyes** are soluble in the medium in which they are used. They are primarily used in personal care products.
- **Effect pigments** are pearls, glitters and metallic materials used to create different finishes, from satin-like looks to sparkle, in cosmetics and personal care products.

The focus of this post is **classical pigments**, and perhaps I'll get to tackle the other two types in additional posts.

Classical cosmetic pigments are made in large batches and there are unavoidable, slight variations in shade or other qualities from batch to batch. The pigments are typically supplied as dry powders where primary particles exist in various states of aggregation and agglomeration that amplify the variation in color properties when evaluated as dry powders.

These pigments cannot be simply stirred in, dispersion is extremely important in getting the full value out of a pigment in formulation and in evaluating pigments for quality control. These pigments must be fully extended or dispersed in a vehicle to get as close as possible to primary particle size to see the full development of color.

Dispersion is the process of wetting, separating and distributing pigment particles in a medium. Dispersion requires intense energy input through high sheering in liquids or pulverization in powders. See table below for some specific examples of dispersion vehicles and equipment.

Application	Dispersion Base	Dispersion Equipment
Nail Polish	Acrylic Lacquer	Three Roll Mill
Lipsticks, Emulsions	Castor Oil	Three Roll Mill, Ball Mill

A particle size of 3-5  $\mu\text{m}$  is necessary for optimum color development. Fineness of grind can be easily measured with an instrument called a Hegman Gauge. The ability of pigment to absorb light increases with decreased particle size and increased surface area. One note of caution, pigments can be over-milled resulting in lower color development.

## Oil Absorption

Another important factor in pigment dispersion is the oil absorption capacity of individual pigments. Based on both chemical structure and the type and amount of substrate present in pigments, they will exhibit a wide range of oil absorptive powers. For this reason, the pigment to oil ratio for dispersion varies and it is easiest to work with single pigment dispersions. This property is significant in the formulation of lipsticks as the oil absorption of a pigment has a major impact on the hardness of the stick. It also impacts the rheology of an emulsion system. Oil absorption is an important factor in controlling the consistency across a line of colors in a lipstick range or liquid foundations.

## About the author

Kelly A. Dobos is a cosmetic chemist with expertise in both skin care and color cosmetic formulation. She is the cosmetics technical manager at Sun Chemical Corporation where she is a key technical liaison with cosmetic research and development groups in North and South America. She graduated from Oberlin College with a Bachelors degree in chemistry and obtained a Master of Science in pharmaceutical sciences with an emphasis in cosmetic science from the James L Winkle College of Pharmacy (WCOP) at the University of Cincinnati. She is a recent recipient of the GOLD (Graduate of the Last Decade) Distinguished Alumni Award from the WCOP.

Kelly has served the Society of Cosmetic Chemists in numerous roles at the local and national level including Chapter Chair, Area II Director, National Treasurer, Executive Committee, Committee of Scientific Affairs (COSA), and Committee on Chapter Affairs (COCA), Constitution & Bylaws Committee, Nominations & Elections Committee, and the Editorial Review Committee for Journal of the Society of Cosmetic Chemists. Kelly is the Society's current Vice President and will assume the role of President in 2019

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



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Seneca College is pleased to announce the three recipients of the 2022/23 Society of Cosmetic Chemists Bursary and Scholarship Awards!

Dear Dennis,

We would like to express our gratitude for your unwavering support towards Seneca students through your generous student award, especially during the challenging past few years.

As the academic year draws to a close, we are delighted to provide you with an update on how your financial assistance has made a positive impact on the lives of Seneca students.

It is my pleasure to share your award recipients for the 2022-23 academic year:

**Society of Cosmetic Chemists Award** was received by **Adriana Merchan Franco** and **Candice Simpson**.

**Society of Cosmetic Chemists Bursary** was received by **Avani Mineshbbhai Patel**.

Once again, thank you for your consistent support, which has played a critical role in enabling our students to attain their academic and personal goals. Your commitment to the Seneca community is deeply appreciated.

Sincerely,  
Seneca Advancement

Please take some time to read through our very worthy recipients thank you letters as well as Seneca's thank you video below where students express their appreciation to donors!



Thank you letter

Award: Society of Cosmetic Chemists Award

Received by: Adriana Merchan Franco

Program: Cosmetic Science

Dear Donor,



My name is Adriana Merchan Franco, and I am a student of the Cosmetic Science Program at Seneca College, York Campus. I completed my Bachelor's Degree in Chemistry several years ago and I have been working in the Oil Industry for 12 years.

After I came to Canada, I knew I needed to find another passion and I found this program. It exceeded all my expectations, beginning with the excellent teaching capabilities of all my professors and their high professional and ethical levels. Additionally, I had the pleasure of being part of the Department of Applied Research at Seneca College during my first semester, where I had the opportunity to put my knowledge and creativity into practice. All subjects have been enriching for me and they are all very valuable because each one of them is fundamental in this industry.

During my co-op I had a great privilege of holding the position of Research & Development Formulator at Sigan Industries Group, which allowed me to put into practice my knowledge acquired in the Formulation, Pigments and Regulations courses, and opened the doors to the world of skin and hair care products in North America.

I want to thank the Society of Cosmetic Chemists for awarding me this award. It is a great honor for me to have been selected among the excellent group of students in this program. This award inspires me to continue working with discipline, perseverance, passion, and dedication in forging a career in this industry. This money will be used as part of the investment to continue my studies at a higher academic level in this industry. The existence of this award seems important to me because it inspires other students to give the best of their efforts and attitudes to achieve great works in life. Hopefully, soon I will be able to become a donor to support Cosmetic Science students to pursue their academic goals.

I would like to thank all my professors at Seneca College, lab staff, and Sigan Industries Group for being a part of my success.

The program has been challenging yet rewarding, and I am looking forward to successfully completing it in a few weeks' time. Infinite thanks for this recognition.

Adriana Merchan Franco



Thank you letter

Award: Society of Cosmetic Chemists Award

Received by: Candice Simpson

Program: Cosmetic Science

Dear Society of Cosmetic Chemists - Ontario Chapter,

Thank you for awarding me the Society of Cosmetic Chemists Award for the Winter 2023 term at Seneca College!

As an aspiring R&D Cosmetic Scientist, this award will help support my research initiatives, creative collaboration, and build my network in the cosmetic industry. Understanding how competitive this industry is, this award makes me feel appreciated as a unique contributor that can stand out amongst the crowd. I am also looking forward to participating in additional engagement opportunities within the Ontario SCC, such as chapter events and our upcoming Capstone presentations in April 2023.

As I am preparing to graduate the Cosmetic Science program, I have been most intrigued by the formulation and product development coursework. Working along with passionate students from diverse academic and professional backgrounds has also been very inspiring, and I have found immense value in the sense of community we have built for such a short program duration. If any of my peers were to describe my interests in the cosmetic industry, I feel they would recall my enthusiasm for skincare actives and sunscreen technology, and I hope to someday formulate and develop many products in these categories!

I recognize the support you provide to our program, and I am thankful for this additional validation of my academic efforts at Seneca College.

Regards,

Candice Simpson



Thank you letter

Award: Society of Cosmetic Chemistry Bursary

Received by: Avani Mineshbbhai Patel

Program: Advanced Biotechnology

Dear Donor,



My name is Avani Patel, and I am studying Advanced Biotechnology at Seneca College. I am currently studying in the 4<sup>th</sup> semester, Biotechniques is my favourite subject. This subject is Deoxyribonucleic Acid (DNA) related and I have a keen interest in it. I want to do research related to DNA isolation. Seneca provides the best environment for studying. The facilities provided by them are excellent. Professors give their 100% effort in making our concept clear. They are ready to help us in any way possible.

I was involved in Seneca Student Federation (SSF) and activities done by them make every student happy and fresh. They celebrate every festival which makes us feel like we are in our home country.

After graduating from Seneca with good results, I want to enter the Quality Assurance sector and work for different food or pharma industries.

Thank you for considering me for this reward. It means a lot to me. Your contribution to my education is so genius and will allow me to continue to focus on my studies and achieve my goal. I faced difficulties in keeping the balance between my work and studies. But now, this scholarship will allow me to work fewer hours and focus more on my studies. You have helped me get one step closer to my future success.

Thank you so much.

Avani Mineshbbhai Patel



Seneca Advancement & Alumni  
advancement@senecacollege.ca



# Dues Renewal

Returning members can sign in, or reset their password if needed, via the button below. Once signed in, you will see an option to reactivate your membership.



Please note: It is important to keep your membership active. Members who are dropped for non-payment of dues must pay a reinstatement fee plus current year dues in order to be reinstated. Members who resign will only need to pay current dues to be reinstated.

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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

[bhalasz39@gmail.com](mailto:bhalasz39@gmail.com)

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## NEWSLETTER POSTING DATES FOR 2023

Here are the dates for 2023 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 12th
- ◆ February 27th
- ◆ April 27th
- ◆ August 24th
- ◆ October 5th



(or as close as we can get)

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

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Value In Every Drop



Drink Hot Drinks in Hot  
Weather to Cool Down  
Faster

Nothing pairs better with hot summer weather than an ice-cold drink, right? Well, as the old saying goes, a hot drink on a hot day will cool you down faster.

It might seem counterintuitive to drink a hot drink when you're already feeling overheated, but recent studies have shown why this favorite advice of my nana is actually scientifically sound.

Dr. Ollie Jay, a researcher at the University of Ottawa, tested this concept in the laboratory. First, his team set up cyclists with skin temperature sensors and a mouthpiece to measure O<sub>2</sub> and CO<sub>2</sub>. Then, while keeping the temperature and humidity in the lab constant, they had the cyclists consume either hot or cold drinks while cycling. Their data showed that those drinking hot water (roughly 122 degrees F) stored less heat in their bodies than the others.

However, there is a critical caveat to this finding and it has to do with how our bodies dissipate heat: by sweating. As Jay put it, "If you drink a hot drink, it does result in a lower amount of heat stored inside your body, provided the additional sweat produced when you drink the hot drink can evaporate." So, if you are in a highly humid environment, say a sauna or a rain forest, or submerged in water, where your sweat already can't evaporate well, an increase in your sweating rate won't have a cooling effect. Under these circumstances, drinking a hot drink will not help you cool down. But, in dry heat conditions, the ones we mostly encounter, a hot cup of tea will indeed have better long-term cooling effects than a glass of iced tea. For me, however, nothing will ever beat an ice-cold Stella Artois on a hot summer day.

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## UPCOMING EVENTS

September 21, 2023 The Venetian, Vaughan Ontario	SCC Ontario Education Day “ <i>Fundamental Concepts in Personal Care Products for Non-Technical People</i> ” -Dr. Ricardo Diez
November 2, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— “Successful Skin Care Products Featuring Natural Ingredients: A Technical Perspective”- Howard Epstein
November 24th, 2023 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance
February 1st, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— TBA
March 6th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Regulatory Day
May 30th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— Dr. Joe Schwarcz
September 19th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Education Day—Joe Dallal

### 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](mailto: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.

## NORTHERN HIGHLIGHTS STAFF

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## MEMBERSHIP

For those who would like to become members, yearly fees are \$170US. 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>



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### 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.



# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter



October 2023

Volume CX

### 2023 Ontario Chapter Officers

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## IN THIS ISSUE...

- SCC ONTARIO CHAPTER MEETING.....page 1,2
- ANNUAL HOLIDAY DINNER DANCE DETAILS..... page 5
- EDUCATION DAY RECAP..... page 8
- “Environmental Impact of the cosmetic industry”..... page 11
- DID YOU KNOW?..... page 17
- UPCOMING EVENTS..... page 19

### SCC ONTARIO CHAPTER MEETING

*“Successful Skin Care Products Featuring Natural  
Ingredients: A Technical Perspective”*

- Howard Epstein, Ph.D.

## November 2nd, 2023

### 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 send a cheque to [rob.castillo@univarsolutions.com](mailto:rob.castillo@univarsolutions.com) Please make your reservation before the Monday prior to the meeting.

**Click Here  
To Register**

# SCC ONTARIO CHAPTER MEETING

*“Successful Skin Care Products Featuring Natural Ingredients: A Technical Perspective”*

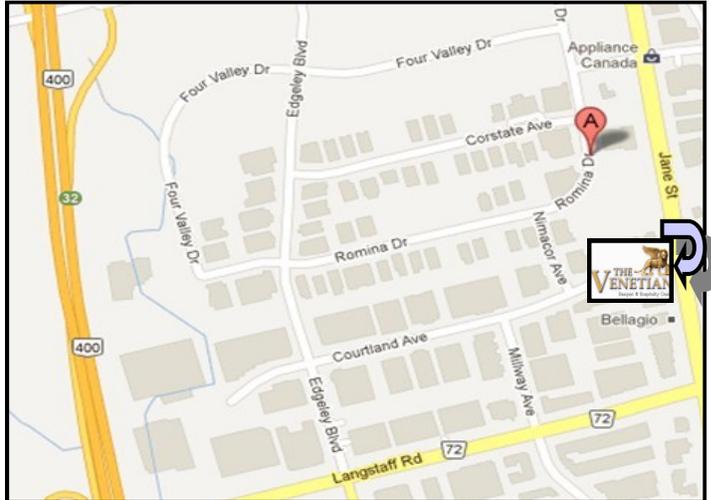
- Howard Epstein, Ph.D.

**November 2nd, 2023**

**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:

Successful Skin Care Products Featuring Natural Ingredients: A Technical Perspective

Howard Epstein, Ph.D., EMD Electronics, Surface Solutions, Philadelphia, PA.

Successful marketing and sales of cosmetic products featuring natural ingredients requires more than a compelling story for the natural ingredient(s). Beyond certifications of recognized agencies that include Bio Cosmetique, Cosmos Natural/Organic, Ecovadis, and documentation ensuring the natural ingredient is authenticated, the ingredient must meet the consumer's expectations. In the past it might have been sufficient to simply explain that the beneficial properties of natural ingredient(s) was associated with their antioxidant and nutritive properties. Currently the "Super Food" trend is quite popular. While many of the natural ingredients used in skin care are consumed by people and provide nutritive benefits to the body, there may be less nutritive support for skin. To ensure the most skin-appropriate super food ingredient is used in a product various biological assay(s) can be used with relevant skin biomarkers that confirm beneficial activity for skin. Finally, the efficacy of the ingredient should be confirmed with human clinical-type testing.

This presentation will discuss examples of natural ingredients including super foods that provide benefits for skin. The beneficial component(s) in the super food will be identified, a brief overview of relevant biological assays with relevant biomarkers used to identify the mechanism of activity and the human use testing protocol to confirm the benefits for skin will also be discussed.

## Biography:

Howard Epstein is Director of Technical Services for EMD Electronics, Surface Solutions, Philadelphia, PA., 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 Pharmacognosy from the Union Institute & University in Cincinnati, Ohio during that time. He has been in the cosmetics industry for many years since he began his career formulating cosmetics for Estee Lauder, Maybelline, Max Factor, Bausch & Lomb and Kao Brands. In addition to his interest in botanicals Howard previously served as editor of the Journal of the Society of Cosmetic Science and is a member of the International Academy of Dermatology. He is on the editorial board of the dermatological journals Clinics in Dermatology and SKINmed representing the cosmetics industry to dermatologists. Howard has authored chapters in various cosmetic technology textbooks including various chapters in Harry's Cosmeticology and holds eight patents. He received the Maison G. deNavarre Medial Award in 2020, the society's highest honor supporting the best interests of the cosmetics and personal care industry.



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# THE SCC ONTARIO CHAPTER IS HAPPY TO ANNOUNCE OUR POPULAR "HOLIDAY DINNER DANCE!" IS BACK.



**Friday, November 24th 2023**

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.**

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- Free registration for upcoming chapter meeting for 1 person for February meeting

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## **MENU**

**Venetian Antipasto Station & Butternut Squash Soup**

**Romaine & Iceberg Mixed 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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# Education Day 2023

Recap



This year's Education Day on September 21st was interesting to say the least. **Ricardo Diez, Ph.D** was the featured speaker for the day. Armed with his unique style and interactive engagement with the audience the program proved to be extremely informative and entertaining!

His seminar, "Fundamental Concepts in Personal Care Products for Non-Technical People" was designed to introduce the basic principles and terminology of the personal care industry to professionals who are not directly involved in the technical aspects of product development. The seminar covered four main topics.



Firstly, **Materials and Their Interactions**. This topic discussed the nature and properties of the common ingredients used in personal care products, such as oils, surfactants, emulsifiers, polymers, and preservatives. It also shows how these ingredients interact with each other and with the skin and hair during the formulation and application processes.



Next, Dr Diez discussed, **Terminology**. With this he clarified the meaning and differences of some frequently used terms in the personal care industry, such as foam, lather, mildness, irritation, hydration, moisturizing, actives, oil-free, and others. Examples and illustrations to help understand these concepts better were also included.

The topic of **Formulations** was of great interest to the group. The composition and structure of various types of personal care products was described such as shampoos, conditioners, body washes, creams, lotions, gels, and sprays. It also demonstrated how these products change from their initial state in the container to their final state on the skin or hair after use.



Finally, **Hot Topics** addressed some of the current issues and trends in the personal care industry, such as 1,4 Dioxane, ethoxylated materials, natural, sulfate-free, and clean beauty products. It also challenges some of the common claims and myths about these topics.

*Attendees received a certificate of attendance at the end of the day as well as a copy of the presentation.*

**Ricardo Diez, Ph.D**, is currently an Adjunct Professor at Rutgers University (NJ) where he has been teaching for about ten years two Applied Cosmetic Science courses in the Master of Business and Science.

He has more than four decades of experience in Research and Product Development in the industry in both consumer product companies (P&G, Dial Corp. and Chanel) and raw material producers Miranol, Stepan, Witco and Huntsman. He has technology patents in both areas.

He also gives courses and seminars for the SCC and IFSC, and for the Center for Professional Advancement.

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# Environmental Impact of the cosmetic industry

By Perry Romanowski

When I started formulating cosmetics back in the late 1990's, one regulatory movement was to reduce the VOC (volatile organic compounds) of cosmetics. What this primarily meant was that all the hair-sprays we sold would have to be reduced to 55% VOC. Since these formulas could be composed of up to 90% VOC, that made it a big challenge.

I always thought it was a ridiculous thing to regulate. It seemed to me the amount of VOC produced by personal care products was minuscule compared to that of automobiles and airplanes. And if you look at the numbers, this is true. Less than 4% of VOC emissions come from personal care products.

## Vilification of the Cosmetic Industry

While [this study of VOCs](#) is worth considering further, this experience prompted me to start noticing other instances where the cosmetic industry was seemingly unfairly targeted. It seems the media and internet provide a steady stream of stories about the harms and hazards of the cosmetic industry. In addition to [causing air pollution](#) you can find claims that the cosmetic industry is

- [Killing choral reefs](#)
- [Excessively killing animals](#)
- [Creating too much plastic waste](#)
- [Hugely impacting global warming](#)
- [Causing cancer](#)

Let's look at the relative impact that each of these might be having on the specific problem.

## Are cosmetics killing choral reefs?

There are lots of sources claiming that sunscreens are responsible for the bleaching of choral reefs. A few governments have banned what they believe are the offending ingredients including oxybenzone and octinoxate. Numerous brands have popped up claiming to sell "reef safe" sunscreens.

The justification they are reef safe? They don't contain any of the banned sunscreen ingredients, but instead feature mineral sunscreen ingredients like Zinc Oxide.

This is a weak rationale for two main reasons. First, there is no good evidence that [sunscreens are causing choral bleaching](#). Global warming and the acidification of the oceans are the main culprit. And second, if one does find the evidence compelling, there is also evidence that [zinc oxide can cause choral bleaching](#). So, if you believe sunscreens are causing choral bleaching, using a zinc oxide based sunscreen isn't going to help.

No, sunscreens are not the main cause of choral bleaching. There is not even good evidence that they contribute to the problem at all. But banning cosmetic ingredients is a lot easier to do than better regulating CO2 emissions and agricultural runoff.

And if we banned sunscreens, the choral reefs would continue to bleach.

## Are cosmetics killing animals?

Concern about animals being used for testing in cosmetics first garnered a lot of attention in the 1970's. Some suggested this was spurred on by [Peter Singer](#) and the establishment of the animal rights movement. Since then numerous groups have attacked the cosmetic industry for doing unnecessary testing. This has led to significant government action and currently animal testing of cosmetics is "banned" in numerous places around the world, most notably the EU.

So, there is a lot less animal testing being done in the cosmetic industry. In truth, companies don't want to do animal testing. It is expensive, it is terrible for a company's reputation, and most people who work at cosmetic companies don't like animal cruelty either.

However, animal testing of cosmetics still happens. We do not yet have enough reliable animal testing alternatives to prove ingredients are safe. When we do, the cosmetic industry will gladly stop doing any animal testing.

*Continued on page 14*



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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.



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Yes, there is still some animal testing going on in the cosmetic industry. It's worth pointing out that the pharmaceutical and chemical industries does way more animal testing than the cosmetic industry. If we banned all animal testing of cosmetics, there would still be a lot of animal testing.

### **Do beauty products create too much plastic?**

The cosmetic industry certainly produces a lot of plastic waste. Very little of the plastic packaging is recycled. There is movement to change this with companies like [Terracycle](#) and big brands creating programs to address the problem. There is also a trend towards companies trying to produce solid products that don't require plastic bottles.

However, this problem will not go away any time soon. Solid formulas don't really work as well as standard beauty products. Recycling of plastic is not yet feasible on a large scale. Until there are laws passed that make recycled packaging more economical than new packaging, the plastic problem will persist.

And while the beauty industry certainly contributes to the problem, it pales in comparison to food and beverage companies. It's reported that Coca Cola produces [3 million tons of plastic each year](#). The EPA reports 14 million tons are produced in the US so that's a pretty high percentage by a beverage company.

If we got rid of all cosmetics, we'd still have a plastic problem.

### **Are cosmetics causing global warming?**

Certainly the beauty industry requires energy to produce products so it will contribute to global warming and climate change. But how much? It's hard to say since no one really keeps track of this in much detail. We can guess by looking at the [EPA estimates](#) for the sources of greenhouse gas production. According to this 23% of greenhouse gases are produced by industry. The cosmetic industry is a small fraction of that.

So, while the cosmetic industry does contribute to global warming it is only a small fraction of the problem.

Eliminating emission levels from the cosmetic industry would not have a significant impact on global warming.

### **Are cosmetics causing cancer?**

Concerns about cosmetics causing cancer are not new. But there has never been evidence that cosmetics cause cancer. The ingredients and products are safety tested and the products are safer than they have ever been. What is new is how rapidly fear marketing has taken over the cosmetic industry. Companies and NGOs, and content makers look for any concerning issues then use the media and social media to scare consumers away from ingredients. The trend of Clean Beauty has allowed companies to use fear marketing to get consumers to spend more money on products that are not safer but cost more.

No, cosmetics are not causing cancer. They are not a [primary cause or even significant cause of cancer](#).

But if you are afraid of cosmetics don't use them. You will experience no negative health effects by avoiding all cosmetics. Although you may smell and look worse.

#### [Perry44](#)

Perry has been formulating cosmetic products and inventing solutions to solve consumer problems since the early 1990's. Additionally, he has written and edited numerous articles and books, taught continuing education classes for industry scientists, and developed successful websites. His latest book is *Beginning Cosmetic Chemistry 3rd Edition* published by Allured.

*Article complements of <https://chemistscorner.com/>*

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Please note: It is important to keep your membership active. Members who are dropped for non-payment of dues must pay a reinstatement fee plus current year dues in order to be reinstated. Members who resign will only need to pay current dues to be reinstated.

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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

[bhalasz39@gmail.com](mailto:bhalasz39@gmail.com)

# 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 2023

Here are the dates for 2023 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 12th
- ◆ February 27th
- ◆ April 27th
- ◆ August 24th
- ◆ October 5th



(or as close as we can get)

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

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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!

Compliments of <https://www.mcgill.ca/oss/article/did-you-know>

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## UPCOMING EVENTS

November 2, 2023 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— “Successful Skin Care Products Featuring Natural Ingredients: A Technical Perspective” -Howard Epstein
November 24th, 2023 The Venetian, Vaughan Ontario	Annual Holiday Dinner Dance
February 1st, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— TBA
March 6th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Regulatory Day
May 30th, 2024 The Venetian, Vaughan Ontario	SCC Ontario Chapter Meeting— Dr. Joe Schwarcz
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

## 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](mailto: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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For those who would like to become members, yearly fees are \$170US. Applications are available from your Executive Committee or on-line at;

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### Change of Address

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