



# NORTHERN HIGHLIGHTS



The SCC Ontario Chapter's Newsletter



January 2023

Volume CVI

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## 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

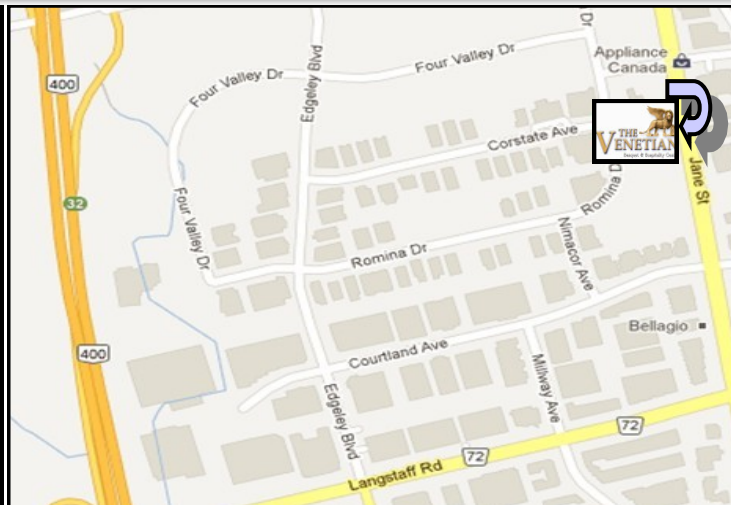


**February 9th, 2023**

**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 crysum.

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 are also producing 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!**

### *Our Generous Prize Table Sponsors*

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2022 HOLIDAY DINNER DANCE

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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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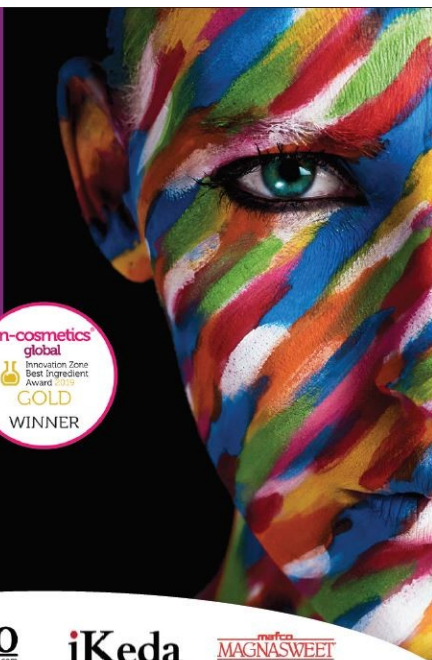


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## *A farewell from the chair...*



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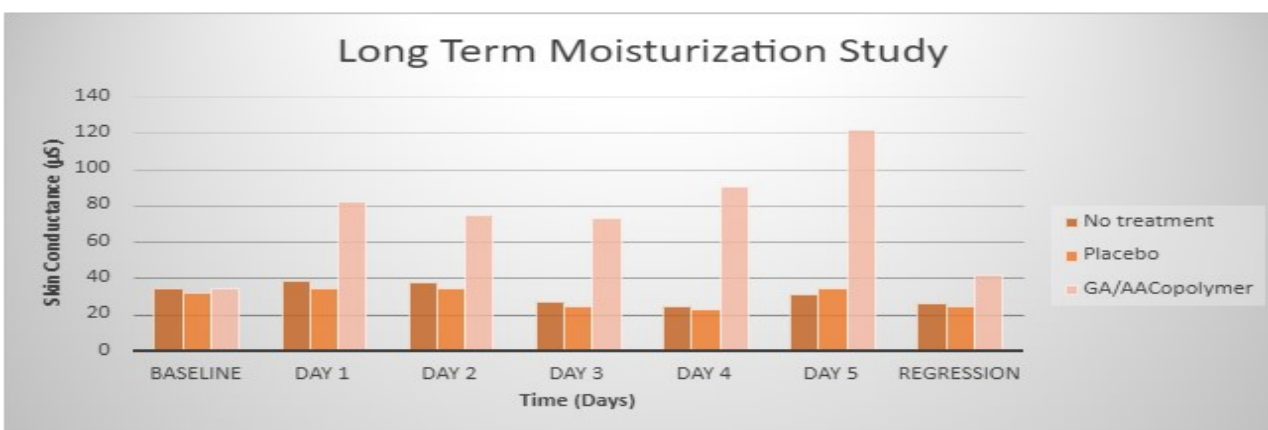
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## When was the last time you really looked at a spiderweb?

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 super fattening 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*





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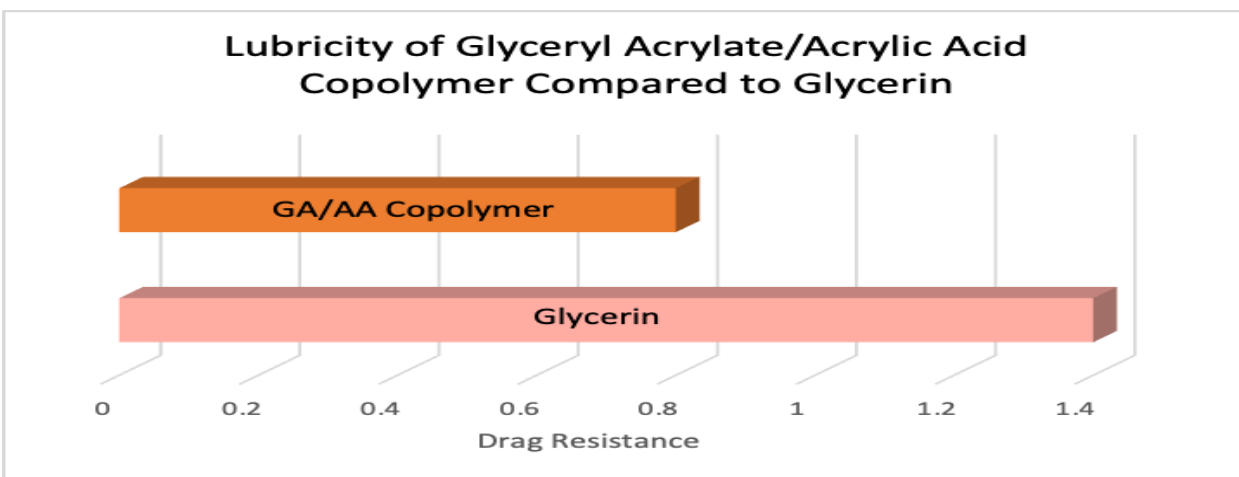
Every once in a while the SCC board is delighted to be able to recognize and honour the contributions of one of it's own! On November 3rd, 2022 we were able to do so during our SCC Ontario Chapter meeting at the Venetian. It was with great pleasure that we were able to announce **Mr. Kashif Mazhar**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



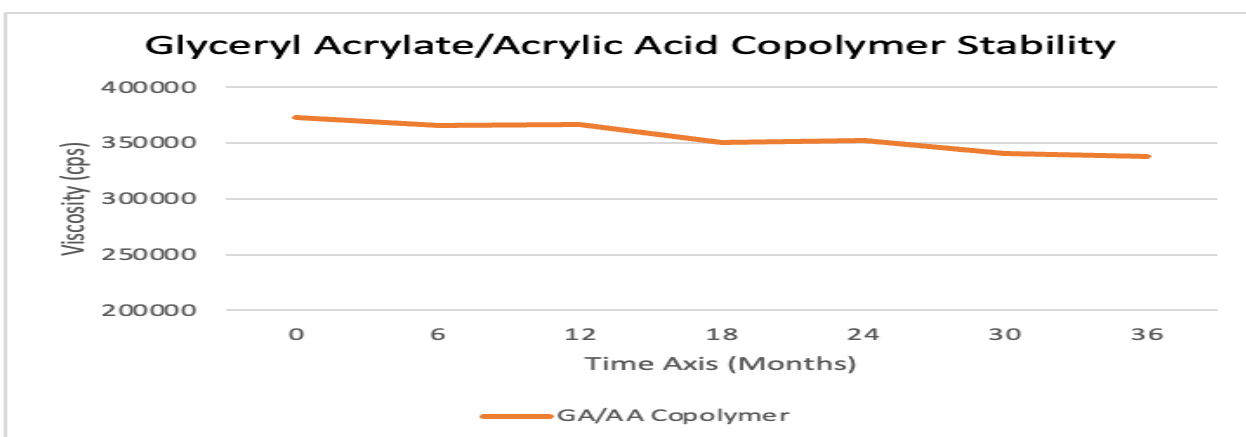
Kashif started out in the industry as an R&D chemist and QC Manager at Nettlewoods and Body Care Manufacturing for 9 years. From there he became the Sales Manager for Pearlchem for 5 years and currently is a partner at Vivachem Inc serving as Vice-President since 2013.





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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 Prettypaul from Ashland Specialty Ingredients. The topic for the evening was ***“Impact of FDA monograph on sunscreen formulations; formulating with inorganic sunscreens”***



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



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:bhalasz-z39@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;

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





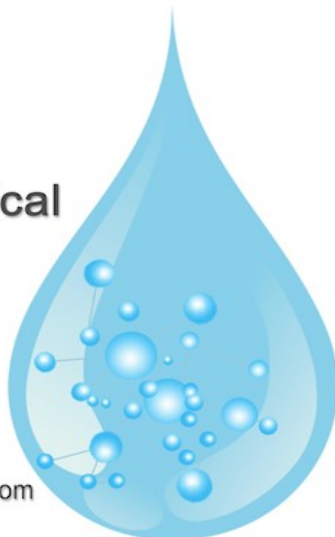
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**Value In Every Drop**

*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  $9.81 \text{ m/s}^2$ , 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.

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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.