



NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



August 2023

Volume CIX

2023 Ontario Chapter Officers

Chair

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

Chair Elect

Monika Melao
Acme Hardesty
mamelao@acme-hardesty.com
Ph: (437) 970-9359

Secretary

Tanya Baksh
Essential Ingredients
Ph: (647) 674-5833
tbaksh@essentialingredients.com

Treasurer

Robert Castillo
Univar Canada
64 Arrow Rd.
Weston ON, M9M 2L9
Ph: (416) 740-5300
Fax: (416) 740-2227
Rob.Castillo@UnivarSolutions.com

Past Chair

Mary Seifi
Grant Industries Inc
Ph: (416) 726-2702
mseifi@grantinc.com

Directors Area V

Lionel Ripoll
lionel_ripoll@uqac.ca
Ph: (418) 545-5011

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

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

**Click Here
To Register**

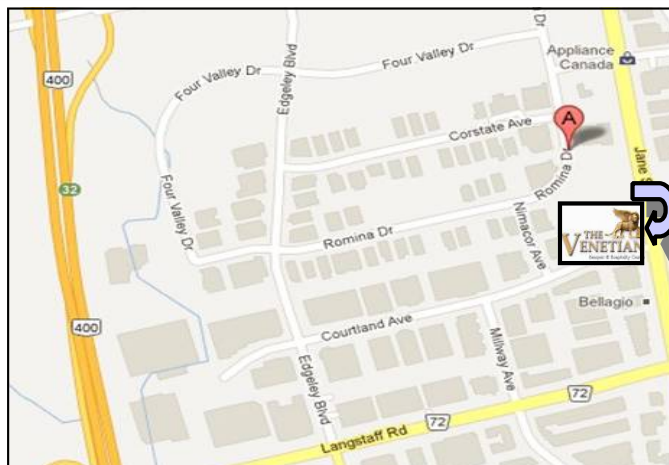
SCC ONTARIO EDUCATION DAY

“Fundamental Cosmetic Science Terminology”

-Dr. Ricardo Diez

September 21st, 2023

Location:	The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3
Fees:	SCC Members—\$100 (Pre-Registered) Non-Members \$125 (Pre-Registered) Students \$50 (pre-Registered)
Schedule	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!

1st Place: Team 9A with a score of **Even (72)** par
Shannon DesRoche
Chris Daraska
David Jackson
Marx Pion

2nd 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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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

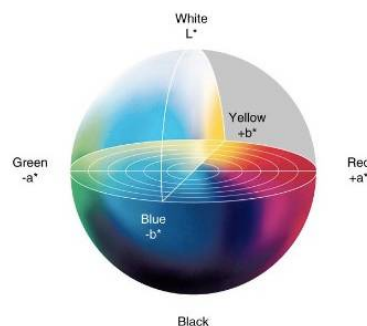
There are three factors involved in color perception – a light source, the interaction of light with an object and the response of a standard observer. Our light source is the visible portion of the electromagnetic spectrum. The standard observer is a typically the human eye or a spectrophotometer.

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, its 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 implement-

ing 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"!



"Clean Beauty"
Perry Romanowski
SCC Ontario Chapter Meeting
May 26, 2023





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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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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 μm 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 Mineshbhai 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 Mineshbhai 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 4th 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 Mineshbhai Patel



Seneca Advancement & Alumni
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Dues Renewal

Returning members can sign in, or re-set 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

bhalasz-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.

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;

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

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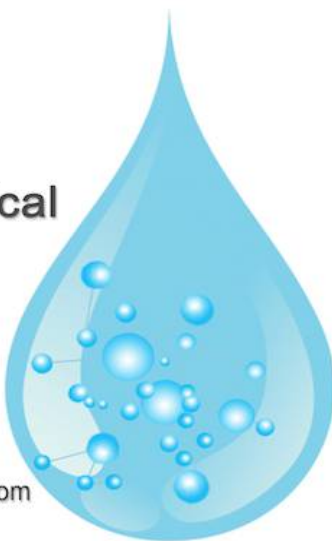
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Did You Know?

**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 O₂ and CO₂. 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.

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

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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. 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

PUBLISHER:	ROB QUINLAN AZELIS CANADA INC	ph: 905-595-2618	rob.quinlan@azelis.com
EDITOR:	ANDREA BOYLAN ANDICOR SPECIALTY CHEMICALS CORP	ph: 905-795-0911	andrea.boylan@andicor.com
ADVERTISING:	VERA MATOVINA PLANT POWER	ph: 416-766-1254	vera@plantpower.ca

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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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.