



NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



January 2021

Volume XCVI

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ON-LINE SCC CHAPTER MEETING

"Biodesign Proteins for Personal Care "

- Beatriz Blanco and José Melo Barcelos

FEBRUARY 4th, 2021
4pm ET

PRE-REGISTER FOR THIS VIRTUAL CHAPTER MEETING

As this particular event is an "On-Line" meeting simply click on the button below which will take you to our registration page. You will receive a calendar invite with the link to the meeting.

[**Click Here
To Register**](#)



ON-LINE SCC CHAPTER MEETING



“Biodesign Proteins for Personal Care ”

- Beatriz Blanco and José Melo Barcelos

FEBRUARY 4th, 2021

4pm ET

[Join live event](#)

LIVE On-Line

Upon registering you will be sent a calendar invitation that will connect you to the presentation

**FREE for SCC Members
Free for Students**

Abstract:

Biodesign Proteins for Personal Care

The product innovation cycle for beauty products is moving faster than ever, and increasingly expected to serve evolving consumer demands for sustainable ingredients and packaging, ethical sourcing, high performance, and transparency. How can brands keep pace with seismic changes in technology, the market, and society? Just as chemistry revolutionized the industry in the 20th century, biology may hold the answer for a more enlightened way forward. Today, advances in medicine and biotechnology are beginning to be consciously applied to cosmetics and personal care products known and loved by consumers worldwide, signalling a coming era of beauty thoughtfully powered by biology.

Bios:

Currently **Beatriz Blanco** is the Sales Manager for the East Coast of US and Canada at Geltor. Beatriz was previously responsible for the Personal Care Business at Momentive Performance Materials She holds an M.S. in Polymers, Surfaces and Colloids from Carnegie Mellon University, an MBA from Fairleigh Dickinson and a B.S. in Pharmacy from the Universidad de la Republica in Uruguay.

José Melo Barcelos is a product formulation scientist at Geltor, leading the Consumer Innovation and Applications team. Previously, he led process development research at the Research and Innovation division of L'Oréal in Rio de Janeiro, with a focus on sun care and hair care products. José has a bachelor's degree in chemical engineering from the University of São Paulo in Brazil and master's degree in process engineering from the University of Pau and Pays de l'Adour in France.

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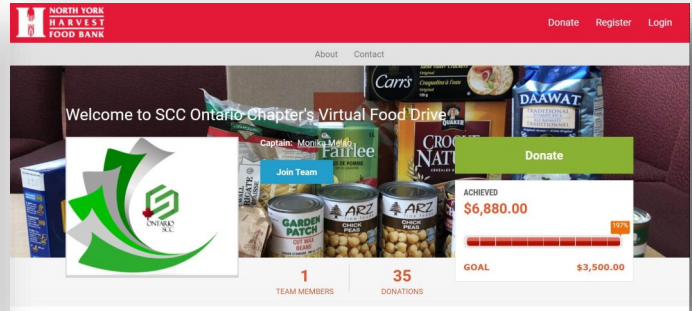
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SCC Ontario Chapter Holiday Donation Campaign for the North York Harvest Food Bank

In this very unusual year the SCC Chapter was determined to not let the cancellation of its popular annual **Holiday Dinner Dance** keep them from giving back to the community at a time when it needs it most. This holiday season the SCC Ontario Chapter board joined forces with the “**North York Harvest Food Bank**” to contribute to their on-line campaign to help raise money. Each \$15 contribution was able to buy one meal for someone in need.



Join our SCC Ontario Chapter Team of Hamper Heroes!

While we cannot gather this year for our SCC Ontario Holiday Dinner Dance, we can still join together and fundraise to help over 24,000 community members in need.

For 2020, the SCC Ontario Chapter has chosen to turn our annual fundraiser towards supporting the local North York Harvest Food Bank.

Every \$15 raised will give a family ONE emergency food hamper containing essential items such as canned beans, pasta and canned fish. If you are able, please consider donating what you can. To jumpstart the drive, the SCC Ontario Chapter has made an initial donation of \$500 and...

WILL BE MATCHING DONATIONS MADE UP TO \$1500!! until December 31st, 2020

Note: You can select your donation to be anonymous or to display your name/message on Team Honour Role. Tax receipts are sent directly from the North York Harvest Food Bank.

THANK YOU in advance for your support.

Together we can help fight food insecurity and brighten spirits this holiday season.

TOP TEAMS

1  **SCC Ontario Chapter**
\$6,880.00



January 6, 2021

SCC Ontario Chapter
ON, Canada

re: Virtual Food Drive

Dear SCC Ontario Chapter,

Thank you for raising \$6,880 to the North York Harvest community's Virtual Food Drive! We cannot thank you and SCC Ontario Chapter enough for your support during this unprecedented time.

Prior to the pandemic, we were already experiencing a 9% increase in food bank usage year over year. Since COVID hit, we have seen an escalation of as much as 75% this past summer. In fact, we saw a single-day record of 760 households served at one of our agencies in July. Without the collaborative spirit and the collective generosity, North York Harvest would not have been able to withstand the initial closure of more than half of our network and a myriad of obstacles throughout the year.

We are truly thankful that the community can rely on philanthropic individuals and organizations like SCC Ontario Chapter. Keeping everyone safe and maintaining our service continues to be North York Harvest's priorities. We know that the journey ahead is a challenging one and we are extremely grateful to have your support. We know that the journey ahead is a challenging one and we are extremely grateful to have your support.

Thank you again, and please keep safe.

Sincerely,



Henry Chiu
Director of Development & Marketing



The Chapter board contributed the first \$500 and pledged to match all other contributions by members up to a total of \$1500. We were blown away by the generosity and over a 3 week period our final contribution was \$6,880.00 which was the largest team donation to the North York Harvest Hamper Hero virtual food drive, which has raised over \$71,000 !!

On behalf of the SCC Ontario board members we would like thank all those who contributed so generously !!!

SCC ONTARIO MERIT AWARD RECIPIENT NAMED

The SCC Ontario Executive Board are pleased to announce that **Mr Gagan Jain** is the recipient of the SCC Ontario Chapter Merit Award! This honour is bestowed upon those that are recognised for their outstanding contributions as well as demonstrating exceptional commitment and involvement in the Chapter for many years. For the last 18 years we have had the pleasure of Gagan serving as a board member and has held the elected position of Chapter Chair and is currently our Golf Tournament Chair.



He has been involved in the Personal Care Industry for the past 20 years with an additional 7 years of experience working internationally in the chemicals sector. More recently he has ventured into an entrepreneurial role with a chemical distribution business. We would like to thank Gagan for his service and his continued help in making our Chapter a better one for all of us to enjoy!

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A farewell from the chair...



My term as the Chair of Ontario Chapter for 2020 has come to an end. I am sure none of us will forget this year yet, it has gone by so quickly and with just a blink of an eye we have entered a new year.

2020 was a challenging year for the entire world. Each and every one of us had to learn new ways of living and interacting with people and even loved ones around us and through that, we learned a lot both from personal and as a part of our bigger society.

On behalf of Society of Cosmetic chemist Ontario chapter, we would like to thank you all for supporting us. SCC as a whole are at 41% retention and 38% retention for Ontario, we know this number is increasing as we are getting closer to finishing this year. We supported the Seneca College with scholarship awards to students from their Cosmetic Science Certificate Course. Moreover, SCC had plans for educational events at Seneca which got cancelled due to pandemic limitations and replaced by other virtual meetings.

We had to cancel our 25th anniversary boat cruise as well as annual golf tournament and few other non-virtual meetings planned for this year. Having said that, we are endeavoring to find the right communication platform and transferred the rest of our events to virtual format. We are proud to say our virtual meetings received great support from our members and we achieved high attendance and participation rate. For the year 2020, Joe Dallal received Ontario SCC speaker award and we would like to thank him for the great educational pieces he always delivers.

Although we had to cancel the highlight of our events, the SCC annual Holiday dinner dance, we decided to celebrate this beautiful time of year by sharing our love through a virtual food drive. We are very proud today that lots of our chapter members participated to help more families celebrate the most wonderful time of the year with warm food on their tables.

Despite all the difficulties and challenges our world is faced with, this year was a great success and I could not have done it alone. As the chair of 2020, I started this year with an addition to our family and I was very lucky to have the best, kind hearted friends and colleagues at SCC board of directors who supported me through this time, I would like to thank each and every member of our SCC board of director Ontario chapter, specially the past Chair Dorothy who helped me out and sending a great big thank you to the entire executive board. Thank you to all the volunteers for being there when we needed them and who helped tirelessly throughout the year. This year was full of surprises and curveballs and I believe we overcame all those difficulties with tremendous success. This could not be accomplished without our strong friendship, positivity and love for one another.

I am passing this position over to Shahin Kalantari (Chair) and Mary Seifi (Chair-Elect) who I am certain will do a great job. They can count on my full support throughout the year, whenever it is needed. We have a wonderful year planned and I look forward to seeing you all at the events. Thank you all for your continuous support of the Ontario Chapter.

Saina Taidi

Chair 2020, Ontario Chapter

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SCC Membership Dues Renewal

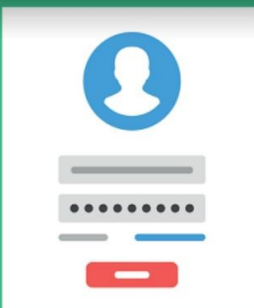
Renewal notices for 2021 were mailed out last year. If you have not done so already please renew your membership as soon as possible Dues fees are US\$155.00.

HAVE YOU ACTIVATED YOUR SCC PORTAL ACCOUNT?

We have recently improved our member's experience on the SCC Portal, formerly known as the Member Portal.

If you have not logged in to the SCC Portal since 07/14/2020 then you will need to create or activate a new SCC account.

ACTIVATE NOW!



Activate Your SCC Portal Account
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You will notice things look a little different on our updated SCC Portal! In order to access membership benefits or Annual Meeting registration information, you will need to activate or create a new account.

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2020 SPEAKER OF THE YEAR AWARD



The SCC Ontario board members are pleased to announce that **Joe Dallal** from Ashland Specialty Ingredients has been awarded the Chapters 2020 “Speaker of the Year” distinction! Each year the chapter recognizes one speaker whose presentation was particularly well received and regarded as worthy of the distinction. In 2020, where we saw 60% of our Chapter meeting held virtually, it was more important than ever that our presenters content be relevant and engaging enough to compete with the never ending array of on-line content we all find ourselves subjected to.



On November 4th Mr Dallal was able to do just that with his presentation entitled, **“Plant Doctors for Cosmetics, from Snake Oil to 21st Century Technologies”**. The talk was an informative as well as entertaining view of the wonderful world of extracts! Pondering such things as how they were made? Where do you start, how to choose a plant, what techniques to employ as well as a review of some newer technologies for today’s chemist.



A copy of Joe’s presentation can be downloaded here



Dedicated to the Advancement of Cosmetic Science

SCC -About Our Organization

Dedicated to the advancement of cosmetic science, the Society strives to increase and disseminate scientific information through meetings and publications. By promoting research in cosmetic science and industry, and by setting high ethical, professional and educational standards, we reach our goal of improving the qualifications of cosmetic scientists. Our mission is to further the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetic and toiletries industry.

Comprised of over 4,000 members, the Society of Cosmetic Chemists was founded in 1945 to promote high standards of practice in the cosmetic sciences. We serve as a focus and provide the proper forums for the exchange of ideas and new developments in cosmetic research and technology.

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

[CLICK HERE TO JOIN TODAY](#)



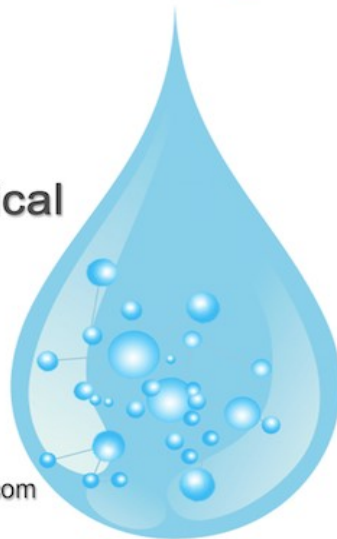
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Did You Know?

Rocks in your head? Sort of.

Sometimes called “ear rocks”, small crystals of calcium carbonate (essentially limestone) are found in your inner ear. The technical name for these tiny stones wrapped in a matrix of protein is “otoconia.” They play no role in hearing, but rather are part of the vestibular system that has several functions such as helping you keep your balance and coordinating your eye movements while your head is in motion.

Otoconia are an essential component of the utricle and saccule, two vestibular organs in the inner ear that help relay information about linear acceleration and tilting of the head to the brain. In both these organs, specialized hair cells are attached to a gelatinous membrane that contains the otoconia. When the head is tilted, gravity pulls more on the crystals than on the liquid surrounding the hair cells. This results in bending of the hair cells, which is translated into electrical impulses that make their way to the brain. Basically, otoconia keep you from getting dizzy every time you move your head. Isn't the human body amazing? Dizzily so.

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INTRODUCING OUR 2021 ONTARIO CHAPTER OFFICERS

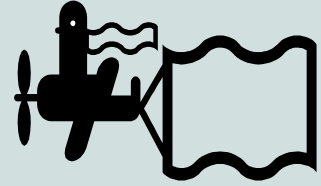


At the start of our final “virtual” meeting for 2020 on November 5th, 2020 we were pleased to have in attendance **Mr Mark Chandler** from SCC National to install our incoming officers for 2021. Mark is the outgoing National Treasurer and incoming Vice President-Elect. Serving as our Chapter Officers for 2021 are;

Shahin Kalantari - Chapter Chair
 Mary Seifi - Chair Elect
 Andrea Boylan - Secretary
 Rob Castillo - Treasurer

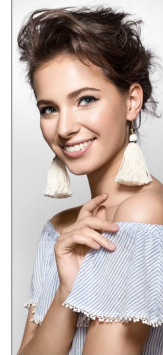
We wish them well in executing their duties for 2021!!

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Strongly agree
 Agree
 Disagree
 Strongly disagree

SURVEY SAYS...

Please keep an eye out for our “**post meeting**” opinion surveys following our Chapter meetings and special events. Each year the **Ontario Chapter** is privileged to host many fine speakers and we would like to recognize them for their efforts. Following each meeting attendees will receive a **very short survey** asking to rate the speaker. Responding gives you a chance to win a \$25 gift card!

At the end of the year we will tally the results and present one of them with an award as “**Speaker of the Year**”.

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Delighting Conscious Consumers with Biodesigned Ingredients

By Beatriz Blanco, MS, MBA and Erin Kim, JD
Geltor

Biotechnology is technology based on biology. Biotechnology utilizes cellular and biomolecular processes to develop technologies and products which, when applied consciously, can help improve lives and consumer products, while being kinder to the planet.

One of these biological processes is called fermentation. Fermentation is the breaking down of sugar molecules into simpler compounds by microorganisms to produce substances that can be used in making chemical energy. You're more familiar with microbial fermentation than you may think. It has been used for making bread, wine, cheese, soy sauce, and other foods and beverages for millennia. At tiny scales beyond what is visible to the naked eye, the yeasts ferment the sugars in dough, releasing CO₂ in the process. The CO₂ helps the bread to rise. As for wines and other liquors, yeasts are added to grape juice. The yeasts ferment the sugar in the juice into alcohol. Similarly, cheese is the product of bacteria fermenting milk or cream.

More recently, the Personal Care industry has also benefited from the use of fermentation. Ingredients traditionally extracted from animals such as hyaluronic acid, milk proteins and sugars, are now being produced in cleaner, biology-based processes such as fermentation.

Biology can be an even more powerful tool when it is combined with design.

Biodesign is the integration of design with biological systems in order to achieve aims like better functional performance or improved sustainability, in contrast to design that simply mimics nature or draws upon biology for inspiration. Biodesign incorporates life itself - cells, proteins, enzymes, and amino acids, for example - into the design as building blocks, material, sources, and energy generators, just to name a few possibilities. An outstanding recent example of biodesign is the production of human collagen *ex vivo*, without any human or animal inputs. For the first time, microorganisms can now make pure human collagen types via fermentation when they are provided with the collagen's amino acid sequence.

Collagen is a well-understood protein which acts as the primary structural component of connective tissues, such as skin and cartilage, in mammals and fish. It performs a key role in the formation of fibrillar and microfibrillar networks of the extracellular matrix, basement membranes, as well as other structures of the extracellular matrix. Therefore, collagen is essential for maintaining the youthful and supple appearance of human skin.

Unfortunately for all of us, from the age of approximately 30 onwards the amount of collagen in our bodies naturally starts to decrease over time - even by as little as just 1 or 2% per year.

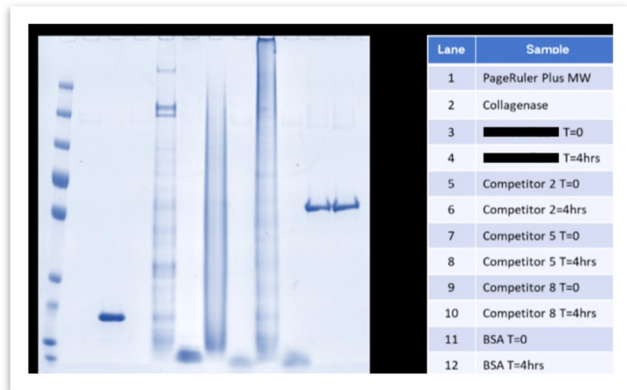
Traditionally, collagen has been extracted from animals such as fish and pigs. In addition to being derived from animals, this collagen is not bioidentical to human collagen and comes with an unpleasant odor. But thanks to the use of biodesign, it is now possible to produce vegan human collagen that is 100% animal-free and non-GMO certifiable. And since this collagen is identical to human collagen, it is readily bioavailable to our skin. This process is also much more environmentally friendly, because its animal-free production consumes less water, releases lower amounts of CO₂ to the atmosphere, and uses less land.

Is It Really Collagen?

Biodesigned ingredients, such as human collagen, can be substantiated as equivalent or superior to their animal-derived counterparts using several holistic methods:

Biochemical Characterization

Confirmation by digestion of collagenase.



Comparison of collagenase digestion of sh-polypeptide-121 to commercially available collagens and BSA Collagenase is an enzyme that proteolytically digests collagens, but not other proteins. As with animal-derived collagens, the collagen derived by fermentation was treated with collagenase and digested in laboratory tests using SDS-PAGE.

Key Physical Properties

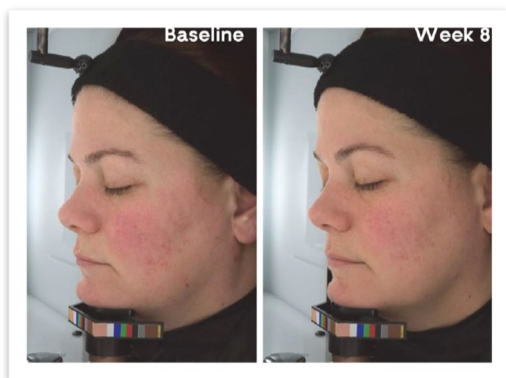
- Water solubility and gelling.



Like commercially available collagen hydrolysates, biodesigned collagens are highly soluble in water and are valued for water-holding properties. These collagens can form gels, and are demonstrated to have Bloom values comparable to commercial gelatins.

Functional Characteristics

Clinical results



Subject with sh-polypeptide-121-associated reduction in facial erythema and other pertinent graphs

In human clinical trials, biodesigned human collagen outperformed animal derived collagens in areas including skin moisturization, reduction of lines and wrinkles, reduction of skin redness, stimulation of collagen production in the skin.

Conclusion

Human collagen is just one example of a biodesigned ingredient, with others being developed using various biology-based technologies. Today, biodesigned ingredients are

being formulated in skin creams, serums, cleansers and masks; hair masks and sprays, and hair and skin oils sold by leading brands in major global retailers.

Biodesign is allowing the Personal Care industry to address the key consumer needs for sustainability and animal-free ethics, without compromising on performance and efficacy. The conscious consumer can find delight and peace of mind in using sustainable and cruelty-free personal care products powered by biodesign.

For more information on biodesigned ingredients for personal care, visit www.geltor.com

References

www.livescience.com/collagen.html

www.designdebates.nl/_pdf/whatIsBioDesign_10-5-12.pdf



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Register Now!

Click Here



Please note your email information will be used for SCC information purposes ONLY!



2020 Speaker Survey Winners!

The SCC Ontario board would like to thank all those who responded to our "Speaker Survey" throughout 2020. We had a lot of great feedback and your input helps us shape the content for future technical meetings. At a recent SCC Ontario board meeting a draw was held where those who responded were entered and one name was picked for each of the five 2020 presentations! We are happy to announce the winners for 2020 were; Mahsa Moumenzadeh, Craig Broijer, Kathy Taylor, Seeger Cheng and Rob Quinlan.

Each won a \$25 gift certificate. Congratulations to all and keep those comments coming for 2021...you could be one of this years winners!

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NEWSLETTER POSTING DATES FOR 2021

Here are the dates for 2021 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ♦ January 14th
- ♦ February 10th
- ♦ April 29th
- ♦ August 26th
- ♦ October 7th



(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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Presenters Welcome!!!



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

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





bhalasz39@gmail.com

Did You Know?

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UPCOMING EVENTS

February 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting- <i>"Biodesign Proteins for Personal Care"</i> Geltor, Inc. - Beatriz Blanco and José Melo Barcelos
March 10th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
April 6th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
May 27th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
July 22nd, 2021 Caledon Woods Golf Club		20th Annual SCC Ontario Golf Tournament
September 23rd, 2021 On-Line Webinar		SCC Ontario Education Day—TBA
November 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
November 26th, 2021 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. The scholarship applications will be reviewed by the SCC Ontario Chapter Board members. Students awarded a scholarship can also apply for additional support (up to \$1000.00) to cover research and development costs, training and conference expenses.

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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

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MEMBERSHIP

For those who would like to become members, yearly fees are \$155 US. 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.



Address Changes??

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



March 2021

Volume XCVII

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ON-LINE SCC REGULATORY UPDATE MEETING

MARCH 10th, 2021
10am ET

PRE-REGISTER FOR THIS VIRTUAL CHAPTER MEETING

As this particular event is "On-Line" simply click on the button below which will take you to our registration page. You will receive a calendar invite with the link to the meeting.

[Click Here
To Register](#)

ON-LINE SCC REGULATORY UPDATE MEETING



MARCH 10th, 2021
10am ET

[Join live event](#)

LIVE On-Line

Upon registering you will be sent a calendar invitation that will connect you to the presentation

FREE for SCC Members
Free for Students

AGENDA FOR THE WEBINAR

- 10am - 10:30 am - "Hand Sanitizers, Hard Surface Sanitizers and related Health Canada Regulations"
- 10:30am - 11am - "US Regulations for COVID -19 products, FIFRA and FDA Regulations"
- 11am - 11:30am - "Canadian Federal Regulatory Update – what you need to know beyond COVID-19"
- 11:30am - 12:00 noon - "Health Canada Regulatory Update"

Abstract:

"Hand sanitizers, Hard Surface Sanitizers and related Health Canada regulations"

The presentation will involve topics such as alcohol-based hand sanitizers along with their associated regulatory requirements including natural health products (NHPs) and those regulated under the Natural Health Products Regulations (NHPR) in Canada. All approved alcohol-based hand sanitizers must meet the necessary requirements under the NHPR. Non-alcohol-based hand sanitizers will also be discussed and then finally the regulations surrounding hard surface sanitizers.

Bio:

Shahin Kalantari is devoting his chemical expertise in Cosmetic Industry to develop Natural and Organic personal care. In 2007, he has introduced one of the first certified organic product line in North America.

Shahin has hands on developing products/ brands of Natural and Organic Skincare, Personal Care, Sun Care, Cosmetic Products, Medicinal (NPN) and Household Products; following regulations such as USDA or Ecocert/Cosmo. Meanwhile he develops QC processes in manufacturing plants to meet the product's regulatory requirement.

Shahin is the owner of d'Avicenna Inc. and current Chair of the Society of Cosmetic Chemists Ontario Chapter and holds a BSC degree in Chemistry and Masters in Polymer chemistry.

Abstract:

"US Regulations for COVID -19 products, FIFRA and FDA Regulations"

Bio:

Sol Bobst PhD is President of ToxSci Advisors LLC with over 18 years of regulatory chemistry experience in the US.

continued on next page

Abstract:**Canadian Federal Regulatory Update – what you need to know beyond COVID-19**

Abstract: an update on the various government of Canada regulatory modernization initiatives covering the Canadian Environmental Protection Act; delisting of low/no volume substances from the Revised In Commerce List; proposed changes to the Hazardous Products Act and Regulations (WHMIS) including issues with hazardous consumer products in the workplace; formation of a technical working group to review the Environmental Emergency Regulations, 2019 and will conclude with an update on the self-care framework for the cosmetics sector.

Bio:

Dave Saucier has been blessed with a broad and extensive range of management experience in manufacturing, distribution and government relations. He is competitive, adaptable and flexible to rapidly changing conditions. Dave has almost 40 years management experience within the chemical, ingredient and aerospace industries in a wide range of positions enhanced by many years of volunteer service to various business and sports associations at board and executive levels.

Dave is currently President of Chemical Compliance CA Inc. which has been in the environment, health, safety and security consulting business since 2002. Dave also serves Responsible Distribution Canada (RDC) as Regional Director and includes serving on various sub-committees of the Industry Coordinating Group for the Canadian Environmental Protection Act and has recently been appointed as Co-Chair of the Risk Management Subcommittee of the Industry Coordinating Group for the Canadian Environmental Protection Act (CEPA-ICG).

Dave has also been tasked as a technical liaison to the COVID-19 Hand Sanitizer Manufacturers Exchange and multi-departmental Government of Canada working groups developing interim measures to address the supply chain shortages of ethanol and non-medicinal ingredients (hand sanitizers) and active ingredients for hard surface disinfectants.

Dave also has been appointed the RDC Technical Delegate to the Canadian Food Inspection Agency for Responsible Distribution Canada's Food Safety Recognition Program under the Post-Farm Food Safety Program. The Responsible Distribution® Code of Practice – Safe Food for Canadians Annex is in the process of being implemented.

Dave is a member of Environment and Climate Change Canada/Health Canada's Stakeholder Advisory Council for the Chemicals Management Plan and a member of Health Canada's Workplace Hazardous Products Program Current Issues Committee.

In his spare time Dave teaches taekwondo and has earned a 5th Dan blackbelt.

Abstract:**Health Canada Regulatory Update**

Health Canada had a very proactive policy agenda...and then we were struck with a global pandemic. This presentation will highlight the key changes in relation to the pandemic, the future of those changes/flexibilities and updates to Health Canada's regulatory agenda moving forward for natural health products and non-prescription drugs, which will take into account the lessons learned during this challenging period of time.

Bio:

Matthew Bown, Associate Director, Bureau of Policy, Risk and Stakeholder Management, NNHPD. Matthew has worked for Health Canada in the Health Products and Food Branch for more than 18 years. Following graduation, Matthew began work in the Inspectorate (now ROEB) on a variety of policies ranging from active pharmaceutical ingredients, to drug shortages to legislative reform and natural health product policy. Following almost a decade in such policy, Matthew moved to the Natural Health Products Directorate (now NNHPD) as the Manager of Risk and worked on a number of policy ventures to support the elimination of Health Canada's NHP application backlog. Matthew now is the associate director for Policy, risk and stakeholder engagement where he offers his regulatory experience and knowledge on files ranging from interim measures during COVID 19, NHP Labelling and the creation of a unique set of regulations for biocides.



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A Welcome from the chair...



It is my pleasure and privilege to serve as the Chair of the Society of Cosmetic Chemists (SCC), Ontario Chapter, for 2021.

At the SCC we do our best to create an environment to network as well as assist in the flow of information, ideas and also provide a platform for our professional community to receive the updates and training needed to leverage their career and their high quality of work. I would like thank you all...especially for your acknowledgement and your support throughout years of our society and the programs implemented by our professional family.

Year 2020 was a very different year all around the globe. Everybody was faced with challenges to manage their normal life, with many limitations, adopting a new way of life. Our first intention was to be healthy by following social distancing and sanitation, which caused us not to meet each other in person as much as possible. This cancelled all our sociable yearly meetings. We had many challenges to adopt a new operating style. Our board of Society of Cosmetic Chemists worked hard to adopt the best possible solution to move on with our education path. Trying to run all possible events online, enabling our members to take the same benefits from our society as up to 2020, if not more. I am happy to say, with all efforts and your support we were able to have all our educational meetings this year, as before, presenting it on a digital platform online. We will continue the same process up until the time that our society is confident to move back to the old pattern as all past good years.

I wish you all a healthy, Covid free and successful year where together we accomplish all this and more—working, enjoying, and succeeding.

Shahin Kalantari

Chair 2021, Ontario Chapter



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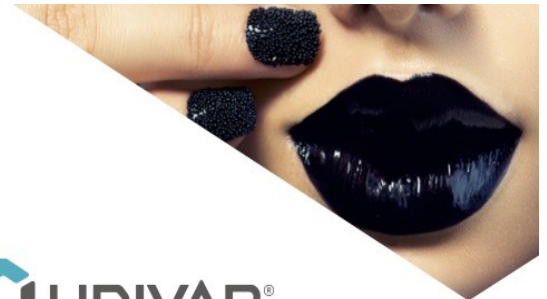
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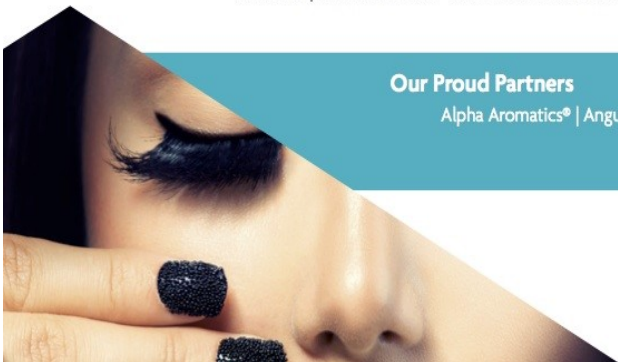


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February 4th Meeting Recap



On February 4th for our first virtual SCC Ontario Chapter meeting of 2021 we were pleased to host dual presenters from Geltor Inc, Beatriz Blanco and José Melo Barcelos. The presentation topic for the meeting was “Biodesign Proteins for Personal Care ”



[View Presentation Replay](#)

Replay

The product innovation cycle for beauty products is moving faster than ever, and increasingly expected to serve evolving consumer demands for sustainable ingredients and packaging, ethical sourcing, high performance, and transparency. How can brands keep pace with seismic changes in technology, the market, and society? Just as chemistry revolutionized the industry in the 20th century, biology may hold the answer for a more enlightened way forward. Today, advances in medicine and biotechnology are beginning to be consciously applied to cosmetics and personal care products known and loved by consumers worldwide, signaling a coming era of beauty thoughtfully powered by biology.



Download the presentation here

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Formulating mineral sunscreens for people of color

Although it seems to be common sense and even routine to some consumers to use sunscreens to protect the skin from the harmful effects of the sun, many still do not use any sunscreens in America. This is especially true in the BIPOC (Black, Indigenous, and People of Color) community. As the demography in USA has become more diversified over time, many cosmetic brands have recognized the needs of consumers of diverse skin tones. In recent years, there has been a push to wear sunscreen for this BIPOC demographic.

Among many reasons for the lack of use of sunscreens in this demographic, aesthetics and safety of sunscreen products are most worth noting. For decades, organic sunscreens have been dominating the sunscreen market. They could be irritating to sensitive skin and sometimes sting the eyes. There has been a shift in recent years to the use of inorganic UV filters due to several reasons:

1. Mineral based ingredients are deemed to be inert, sustainable, and well associated with personal wellbeing.
2. ZnO was approved in 2016 as a safe and effective sunscreen active in EU
3. More importantly, TiO₂ and ZnO are the only two actives assigned with GRASE status by FDA in its 2019 proposal¹.

However, formulating mineral sunscreens for consumers with dark tone, especially skin types V and VI on the Fitzpatrick scale, has remained a challenge. As it can be imagined, the major challenge to consumer acceptance is whitening or white cast on skin after application. This is because inorganic UV filters are particulate materials with high refractive index, and thus, can scatter the visible light strongly.

Although material technology has much advanced to allow TiO₂ and ZnO particles to be made as small as 10 – 20 nm and highly transparent on light skin types, whitening and/or bluing on very dark skin remains problematic for sunscreen formulators. Below, will review a few formulating strategies for mitigating this undesirable side effect.

Use ZnO only

ZnO has a refractive index of 2, much lower than rutile TiO₂ which has a refractive index of 2.7. According to Mie's theory on scattering, light scattering by ZnO is just about one third that of TiO₂, meaning it is much more transparent. Use of TiO₂ even at a low level could spoil the aesthetics. Therefore, it is imperative to use ZnO only for dark skin tones.

There are many grades of ZnO powder on the market with primary particle sizes in the range of 20 – 300 nm. Obviously, the smaller the size, the higher the transparency. For dark to very dark skin tones, a primary particle size in the range of 20 – 30 nm should be used.

ZnO is a moderately effective UVB sunscreen active, and thus, is often needed at very high level (15 -25%) to achieve SPF 30 or higher. Such high use level presents another reason why a very small particle size must be chosen to maintain high transparency.

There are many ZnO-only sunscreen products marketed for consumers with dark skin types especially African American. One example is On-The-Defense Sunscreen SPF 30 from Eleven by Venus Williams. It contains 25% ZnO and claims "Sheer mineral sunscreen that melts onto skin, leaving a semi-matte, non-chalky finish."

Disperse ZnO powder well

Just finding a ZnO with a small primary particle size does not mean a complete solution yet. ZnO particles at this size scale have a very large specific surface area and surface energy and tend to aggregate heavily. In reality, what really interact with the light are the aggregates or even agglomerates. Therefore, proper dispersion to remove or minimize the population of large aggregates is important. Keep in mind, a small portion of large particles play a significant role in scattering visible light (whitening) due to their relatively large mass. While dispersing ZnO with high-speed mixer or homogenizer may be sufficient for skin type I to IV, milling ZnO powder using a bead mill is necessary for higher transparency requirement. In the absence of an efficient mill, the use of a ZnO pre-dispersion is a simple and effective approach.

Continued on page 16

Seneca APPLIED RESEARCH

Seneca Centre for Innovation in Life Sciences (SCILS)

Cosmetic Sciences 2021 Workshop

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Thursday, March 11, 2021
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- Joe Schwarcz PhD., Director, McGill Office for Science and Society
- Industry messages from the Society of Cosmetics Chemists and Cosmetic Alliance Canada
- Emerging entrepreneurs – Everist Inc.; and a number of guest presenters.

The event will highlight ways to engage in new applied research projects with Seneca and feature opportunities for audience engagement and networking with speakers, SCILS leadership, faculty, former students and fellow attendees.

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SURVEY SAYS...

Please keep an eye out for our “**post meeting**” opinion surveys following our Chapter meetings and special events. Each year the **Ontario Chapter** is privileged to host many fine speakers and we would like to recognize them for their efforts. Following each meeting attendees will receive a **very short survey** asking to rate the speaker. Responding gives you a chance to win a \$25 gift card!

At the end of the year we will tally the results and present one of them with an award as “**Speaker of the Year**”.

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Mitigating Whitening/Bluing

At high use level, ZnO will show some whitening on skin types V and VI even when it is very fine and well dispersed. Moreover, even if the whitening is made unnoticeable, scattering of light in the range of 380 – 450 nm cannot be avoided, leading to bluing. To mitigate the whitening/bluing and make sunscreen blend into dark skin well during application, pigments of warm colors can be used, as follows:

1. Red iron oxide pigment

The red color of typical iron oxide pigment used at a level of 0.2 – 1.0% is able to neutralize the whiteness and bluing of ZnO sunscreen. Many mineral sunscreens tinted with red iron oxide are available on the market and are marketed for ethnic skin style. However, red iron oxide pigment is highly opaque, and its texture on skin can be chalky. When it comes to skin type V and VI, the finish with such pigment just cannot be as natural as consumer would expect.

2. Transparent iron oxide pigments

Transparent iron oxides are an improvement from standard iron oxide pigments and were initially developed for varnish formulation. They typically have a primary particle size of < 30 nm and are as transparent as nano ZnO. Boots Co. PLC first disclosed the use of nano red iron oxide in inorganic sunscreen formulation in the early 1900s². A few premium brands started to use both transparent red and yellow iron oxides in their daily wear sunscreen products since the mid-1990s. However, the use of such pigments remained very limited to this day. In addition to high cost, one technical hurdle is that transparent oxides are very difficult to disperse. With this in mind, I highly recommend the use of a pre-dispersion.

Typically, 0.2 -0.5% of transparent red is sufficient in an all-ZnO sunscreen formulations. Because dark skin can have different undertones (red, yellow or grey, etc.), a combination of transparent yellow and red iron oxides provides a more complete solution. At this use level, the transparent iron oxides impart almost no texture to the skin, and the finish is completely natural.

3. Use of Earth tone or dark pearl pigments

The basic optical principle of using Earth tone pearl is similar to using iron oxides. As we know, pearl pigments often refer to mica with layers of metal oxide coating. They usually have good transparency, especially when the substrate is highly pure synthetic mica. As a result, its finish on the skin can be much more natural than a typical red iron oxide pigment.

It is preferred that pearls have red iron oxide as coating and that their particle size be below 15 microns. Any larger size may generate a pearlescent sheen on skin that will be deemed unnatural. Typical use level is about 0.1- 1.0 %. For very dark skin, grey or dark pearl pigments with a coating of black iron oxide or a combination of red and black iron oxides can be used at a level of 0.05 – 0.5% for further adjustment.

Like transparent oxides, a blend of Earth tone pearl and dark pearl pigments will provide a good balance for dark skin types with various undertones. Formulators at Kobo Products applied this technology to its 4 in 1 Multi-Purpose Sunscreen Cream and won CEW Award in 2019 for the category of Ingredient and Formulation³.

4. Use of SPF boosters

The direct way to reduce whitening is to reduce the use level of ZnO. It can be done by selecting the right SPF boosting agents. Below are some strategies presented in the 2015 Sunscreen Symposium⁴. Here are a few highlights:

a) Film former: This technology is well known in our industry. Film formers can be oil soluble, water soluble or water dispersible (like latex). Many have been shown to boost SPF by 20% or more.

b) Antioxidants/anti-inflammatory: Many of them are proven to suppress the generation of erythema and can boost SPF very effectively.

Conclusion

Formulating mineral sunscreens for skin types IV to VI requires special considerations for very high transparency. An all zinc formulation should be the first consideration. The use of transparent oxides, and a blend of Earth tone pearl pigments can help to further reduce the whiten and/or bluing of sunscreens on dark skin tones and make them blend into skin more naturally.

References

1. <https://www.federalregister.gov/documents/2019/02/26/2019-03019/sunscreen-drug-products-for-over-the-counter-human-use>
2. NA Fardell et al., EP 0616522: Sunscreen compositions
3. <https://www.cew.org/award/4-in-1-multi-purpose-sunscreen-cream/>
4. Y Shao et al., Practical tools for boosting sunscreen efficacy, Sunscreen Symposium 2015

Acknowledgements

The author is grateful to Tatyana Tabakman and Cheres Chambers for insightful and helpful discussions.

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HISTORY OF OUR SOCIETY

Building a community and expanding knowledge for 75 years.

1945

Comprised of over 5,700 members, the Society of Cosmetic Chemists was founded in 1945 to promote high standards of practice in the cosmetic sciences. We serve as a focus and provide the proper forums for the exchange of ideas and new developments in cosmetic research and technology. Our leadership includes a long list of [past SCC Presidents](#) who have served the organization well over the years.



SCC Founding Father,
Maison G. de Navarre

1948

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

1999

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



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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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NEWSLETTER POSTING DATES FOR 2021

Here are the dates for 2021 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ♦ January 14th
- ♦ February 10th
- ♦ April 29th
- ♦ August 26th
- ♦ October 7th



(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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Presenters Welcome!!!



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

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

bhalasz39@gmail.com

Did You Know?

SCC Ontario Chapter Has a Group Presence on





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and invites you to join the Group As a Member of the SCC Ontario LinkedIn Information Source.

Take A Look **Linked in**



UPCOMING EVENTS

March 10th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— Annual SCC Ontario Regulatory Update Webinar
May 27th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
July 22nd, 2021 Caledon Woods Golf Club		20th Annual SCC Ontario Golf Tournament 
September 23rd, 2021 On-Line Webinar		SCC Ontario Education Day—TBA
November 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
November 26th, 2021 The Venetian, Vaughan Ontario		Annual Holiday Dinner Dance
February 3rd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA

SCC

Dedicated to the Advancement of Cosmetic Science



ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS

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

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

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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

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MEMBERSHIP

For those who would like to become members, yearly fees are \$155 US. 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.



Address Changes??

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 2021

Volume XCVIII

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ON-LINE SCC ONTARIO CHAPTER MEETING

MAY 27th, 2021
4PM ET

PRE-REGISTER FOR THIS VIRTUAL CHAPTER MEETING

As this particular event is "On-Line" simply click on the button below which will take you to our registration page. You will receive a calendar invite with the link to the meeting.

[Click Here
To Register](#)

ON-LINE SCC ONTARIO CHAPTER MEETING

MAY 27th, 2021
4PM ET

[Join live event](#)



LIVE On-Line

Upon registering you will be sent a calendar invitation that will connect you to the presentation

FREE for SCC Members
Free for Students

Abstract:

“Expanding the Rainbow’: Colors & Trends – Where they Come From and How they Influence Cosmetics, Fashion, Home & Décor”

Colors and color trends have been influencing our society for centuries. How many brands can you recognize just by color? (probably more than you think!)

These trends can be influenced by the economy, world events, music, celebrities and marketing companies. These colors will be explored and explained as to how they are chosen and influenced almost everything that surrounds us.

This presentation will review trends past and present, as well as how the home & décor trends are influenced in parallel to the fashion & cosmetics trends. A ‘sneak peek’ at the 2021-22 trends will be included, as well as anticipated changes in the marketplace in a ‘post-COVID’ world.

Bio:

Alison Griffin has over 25 years of experience in the Cosmetics / Personal Care industry. Starting her career in R&D, she has worked in both the finished good end (Avon Skin Care Lab) as well as in the supplier end. She has 20 years of experience in raw material sales, 10 of which have been for pigments companies.

She has been the recipient of Regional Sales Awards / Regional Marketing Innovation Award, two SCC Chapter Speaker Awards and the NYSCC Chapter Merit Award (where she was also Chair) She has a B.S. (Biology) from Gettysburg College and an M.A. (Cosmetic Science) from Fairleigh-Dickinson University.

ON-LINE SCC ONTARIO CHAPTER MEETING



JULY 14th, 2021
4PM

[Join live event](#)



LIVE On-Line

Upon registering you will be sent a calendar invitation that will connect you

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Abstract:

“Navigating buzzwords to address demand for naturality”

The presentation would like to foster discussion and clarification by presenting the main focus for each qualification as well as their extended interpretation.

Consumer demand for natural cosmetics has been continuously growing over recent years, with a great focus on truly natural products containing natural ingredients. Plants have been used in beauty and health for centuries around the world; ethnobotany revealed that plant properties are linked to their active molecules, a wide variety of secondary metabolites. These phytochemicals express a wide range of activities of high relevance and great interest in cosmetic applications such as antioxidant, anti-inflammatory, and antimicrobial.

The unprecedented situation created by COVID-19 generated a fulgurant acceleration in this consumer interest and request. Today, consumers want full naturality. It is not just about a product to address a fleeting trend; they want a series of attributes that address their long-term 360° lifestyle for wellness and holistic well-being goal. In addition to the lack of definition from regulatory bodies for “natural”, thus for “Natural beauty”, recent years have seen the emergence of many buzzwords used to describe industry market movements, such as “Clean beauty”, “Green beauty”, and more recently “Conscious beauty”, which are being used with various interpretations. This creates a serious confusion in the marketplace and possible consumer misconceptions, so clarification is needed.

Bio:

Noellie Astruc **Botanicals Business Development Specialist, Personal Care** Croda Inc.

Noellie Astruc has over 5 years of international experience in the cosmetics industry. She has worked for global corporations around the world, such as Beiersdorf and L’Oreal, as part of their research & innovation teams.

Noellie Astruc graduated with a Chemistry Engineering degree from CPE, Lyon, and a Business Development master’s degree from INSA Toulouse.

As a Business Development Specialist for the Midwest and Canada regions, Noellie supports clients in the beauty industry with natural solutions.



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2020 SCC ONTARIO MERIT AWARD RECIPIENT NAMED

The SCC Ontario Executive Board is pleased to announce that **Mr Shahin Kalantari** is the 2020 recipient of the SCC Ontario Chapter Merit Award! This honour is bestowed upon those that are recognised for their outstanding contributions as well as demonstrating exceptional commitment and involvement in the Chapter for many years. For the last 17 years we have had the pleasure of Shahin serving as a board member and he has held the elected position of Chapter Chair in 2015 as well as serving as our current 2021 Chair.



Shahin has been an SCC Ontario Chapter board member since 2008 and has always been more than generous with his time and never hesitates to lend a helping hand with Chapter activities.

As a Cosmetic Chemist, Shahin has worked in the development of cosmetic and personal care products for more than 30 years and has also served as a professor at Seneca College teaching formulation labs in the cosmetic chemistry program.

The SCC Ontario Chapter board members thank Shahin for his ongoing contributions and congratulates him on his merit award!



Seneca News & Updates

Seneca APPLIED RESEARCH

Seneca Centre for Innovation in Life Sciences (SCILS)

Cosmetic Sciences 2021 Workshop

Join us on March 11, 2021 for a free virtual workshop



The Seneca Centre for Innovation in Life

Sciences (SCILS) hosted a virtual workshop focused on Cosmetic Sciences on March 11, 2021. Seneca's Centre for Innovation in Life Sciences (SCILS) is supported by the Natural Sciences and Engineering Research Council of Canada (NSERC). The SCILS program has a dedicated focus on product development, enhancement and validation in Canada's cosmetic science sector with access to expertise from the students, faculty and infrastructure at Seneca.

Hosted by Seneca Innovation - Applied Research, the event highlighted a keynote address by Joe Schwarcz PhD., Director, McGill Office for Science and Society. Cosmetic sciences industry and sector leaders and innovators in Ontario also joined the event providing updates. We heard from Darren Praznik, President and CEO of Cosmetics Alliance Canada;

Mia Spiegelman, Executive Director Quality Assurance at Estee Lauder Canada; and Shahin Kalantari, Chair – Ontario Chapter of the Society of Cosmetics Chemists. The 'Innovator/Entrepreneur Spotlight' keynote was provided by Jessica Stevenson and Jayme Jenkins – Co-founders of EVERIST Inc. – a new Ontario clean-beauty company - sharing their innovation journey and collaboration with the SCILS program. The event also included an alumni panel from Seneca's Graduate Certificate Program of Cosmetic Science sharing their experience in Seneca's program, participation in applied research, and their current career placements.

Please visit the [SCILS website](#) to learn more about the SCILS program and how to collaborate with Seneca on new cosmetics formulations.



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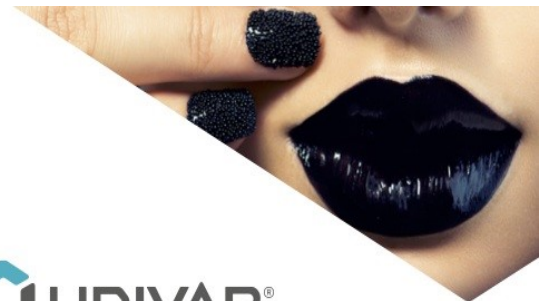
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Regulatory Meeting Recap



While our Regulatory Meeting in March is not technically an annual event it sure looks like it is becoming that way as the world of “regulations” becomes evermore unpredictable with the changing times. This year certainly highlighted that fact especially as we found ourselves 1 full year into Covid-19 where the need for a meeting covering sanitizers seemed particularly applicable.

Held on March 10th at 10am, of course the meeting was virtual but a lot was packed into just over 2 hours where we hosted 4 speakers covering related topics. The turnout was great as we had just over 100 register for the event with 75 attending. Thanks to those who attended!

Shahin Kalantari started the morning with his presentation “Hand Sanitizers, Hard Surface Sanitizers and related Health Canada Regulations”

DOWNLOAD

Sol Bobst PhD followed with “US Regulations for COVID -19 products, FIFRA and FDA Regulations”

DOWNLOAD

Next was **Dave Saucier** with “Canadian Federal Regulatory Update – what you need to know beyond COVID-19”

DOWNLOAD

Finally we ended the morning with **Matthew Bown** with a “Health Canada Regulatory Update”

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JOB SEARCH

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- The ability and interest to work in laboratory environment
- Knowledge of production capabilities and unit operations; ability to perceive and communicate technical opportunities
- Technical competence, with a good understanding of personal care chemistry and ingredient technology
- Good organizational and time management skills; ability to prioritize effectively, manage multiple projects simultaneously and work under pressure
- Demonstrated understanding of how to incorporate business needs into technical decisions
- Strong interpersonal skills; ability to work within the team and with other departments
- Strong communication skills; ability to communicate effectively internally and externally

EDUCATION AND/OR EXPERIENCE

B.Sc. in Chemistry or related discipline

Hain-Celestial Canada, ULC. is committed to creating a diverse environment and is proud to be an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, colour, religion, gender, disability, age, or veteran status. Reasonable accommodations are available upon request.

Contract length: 6 months

Interested applicants can contact Suzy Fargalla at Suzy.Fargalla@hain.com

JOB SEARCH

Hain-Celestial Canada

Overview

The Regulatory Associate supports the international product compliance for a collection of personal care and cosmetic brands. The incumbent assists with ensuring product adherence to all required technical label elements regarding pertinent global laws and regulations and provides ongoing support with export documentation process requirements.

Essential Duties and Responsibilities:

- Collects and evaluates documentation necessary for the international registration of personal care products, including in the EU, UK and Asia.
- Supports the creation and review of Certificates of Manufacture, Certificates of Free Sale, Safety Data Sheets and other similar documentation for products sold by The Hain Celestial Group, Inc.
- Acts as a liaison between Regulatory North America team and other global teams, as necessary.
- Helps drive the international registration of products as requested by international partners
- Utilizes multiple regulatory databases to ensure the stringent accuracy and compliance of label data for products, including: Ingredients, allergy disclaimers, health claims, efficacy claims and information for creation of personal care, cosmetics and drug-facts labeling.
- Collaborates with regulatory certifications team members to verify the usage for all certification symbols, including: Organic, Gluten-free, Non-GMO, Kosher, etc.
- Review product and packaging accuracy of consumer safety information (i.e. storage/temperature requirements, expiration dates, etc.)

Desired Skills and Experience

- Minimum 1-3 years' experience in a technical function, preferably in regulatory compliance in the CPG industry.
- Bachelor's degree required.
- Working knowledge of EU, FDA and HC regulations
- Experience with GMP's, SOP's and Environmental guidelines.
- Export experience a major plus.
- Excellent organizational skills, ability to prioritize multiple priorities and strong attention to detail.
- Computer skills including MS Office programs such as Outlook, Word, Excel PowerPoint.
- Strong interpersonal skills and ability to communicate (verbal/writing) effectively.
- Self-motivated and strong analytical / problem solving skills.
- Ability to collaborate at all levels of the organization and across other functional areas.
- Ability to maintain a high level of confidentiality
- Preferred knowledge of the Consumer Product Goods Industry.

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Interested applicants can contact Suzy Fargalla at Suzy.Fargalla@hain.com

JOB SEARCH

Canadian Custom Packaging—Regulatory Affairs and ISO Manager

Position Description: This position is instrumental to the organization and provides complete Regulatory Affairs and ISO support to both internal departments, as well as directly to our customers. Main liaison with external partners such as auditors, inspectors, consultants, etc. on matters relating to Regulatory, ISO and QMS.

Key Responsibilities:

- Obtain and evaluate technical documentation relative to regulatory requirements.
 - *On-going review of product compliance relative to the changing regulations
 - * Implement appropriate strategies and changes necessary to meet evolving regulatory initiatives
- Plans and executes the preparation of regulatory submissions, amendments, and annual reports for all authorities and governing bodies
 - *Including, providing assistance with annual product quality reviews (APQR) and adverse drug reporting (ADR) specifically in the area of literature search in support of annual summary reports.
- For markets outside Canada, (as required), works with regulatory contacts and consultants to facilitate preparation of their marketing application, post approval submission documents
- Monitors the progress of agency review of regulatory submissions and follows up with applicable parties
 - *Coordinates, prepares, and submits response to Health Authority questions
 - *Follows up with regulatory contact on their progress with the foreign agency
- Responsible to promote awareness of ISO standards and requirements throughout the organization
- Provides regulatory advice/support to internal departments such as R&D, QA, and product development
- Assist in the review of all technical documentation for product release; develop procedures and maintain files in compliance with Canadian GMP's
- Lead support to all Health Authority inspections such as Health Canada and FDA audits
- Lead support for all ISO audits
- Registering of products including DIN's, NHP's, Medical Devices, etc.
- Responsible for the renewal and maintenance of all licenses including DEL, MDE, NHP, etc.
- Reviews and prepares ingredient lists as requested
- Review and prepares SDS and MSDS's as requested

Other duties as assigned

Skills & Qualifications:

- Proficient in Microsoft office, including: outlook, word, excel, power point, TEAMS, etc.
- Excellent organizational, time management, written and verbal communication skills
- Demonstrated ability to work well under pressure, while managing conflicting priorities and tight deadlines
- Ability to work professionally and collaboratively with all internal departments and external customers
- Self-starter who is analytically minded, adept problem solver and able to work independently and efficiently
- In-depth understanding of global regulatory requirements for cosmetics, DIN's, NHP's and Medical Devices

Education requirements:

- University degree in Life Sciences (biology, chemistry, pharmacology), regulatory affairs program an asset
- 3+ years of direct regulatory experience in a manufacturing environment
- Completion of ISO 9001:2000 Internal Auditor Training as asset

Qualified persons can send resumes to mbillings@cdncustompackaging.com

SCC ONTARIO EMAIL REGISTRATION

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SURVEY SAYS...

Please keep an eye out for our “**post meeting**” opinion surveys following our Chapter meetings and special events. Each year the **Ontario Chapter** is privileged to host many fine speakers and we would like to recognize them for their efforts. Following each meeting attendees will receive a **very short survey** asking to rate the speaker. Responding gives you a chance to win a \$25 gift card!

At the end of the year we will tally the results and present one of them with an award as “**Speaker of the Year**”.

The Holistic View of Beauty

By Giorgio Dell'Acqua

Introduction

Back in 2020, when I started my adventure as a cosmetic scientist and formulator working at a contract manufacturer, I was introduced to suppliers and brands that suggested ingestible ingredients as an effective treatment to improve the way our skin, hair and nails looked. We called it at the time the “inside-out” approach to beauty. Although I knew about the association of certain vitamins with skin and hair aspect and quality, the supplements were more complex, from collagen to carotenoids to different phytochemicals with issues related to release, stability, bioavailability, etc.. Mostly because the lack of sufficient clinical evidence and the challenge for suppliers operating in the cosmetic industry to support clinical trials addressing the inside-out approach, many of these ingredients went unnoticed in the bigger picture of beauty and made their way through the nutraceutical market with a certain success, focusing on general wellbeing or wellness. Back in the day, I believed that the predominant dogma of addressing skin care and hair care as a specific target using topical products, almost like skin and hair were disconnected from the rest of our body, slowed down the adoption of a more holistic approach, and the idea to address beauty through an inside-out intervention as well.

A Holistic World

The holistic view of our body has been explored and developed for thousands of years in TCM and Ayurvedic Practice and represents a philosophy of life. We are looking at interactions and equilibrium between our senses, our organs and our external world with its colors and smells, but also with its dangers (pollution and stress in all their form). The notion that we are completely connected as individuals and with the environment is not surprising either. We just lived the disconnect for too long. There is a willing to reconnect to ourselves, our communities and nature. Sounds familiar? This is very much in line with the principle of sustainability, but also with a holistic view of the world where individuals function better as communities. Connections are complex though and not necessarily linear. This is why it is risky to simplify; but in general, we can draw some essential concepts that I think are main take-aways when approaching the skin and hair as part of our body and subjected to its rules.

The Scientist View

First, embryology studies taught us that some organs derive from the same embryonic tissue. When we think about the brain, skin, hair connection we realize that all these organs are derived from the same ectoderm layer during embryogenesis. Although these organs eventually differentiate to assume morphology and function completely different from each other, they do share mechanisms and pathways that are similar and interconnected. Some years ago, this basic understanding allowed scientists to develop concepts around the so-called neurocosmetics or the brain-skin-hair- axis.^{1,2} These concepts are becoming more prevalent these days since they are helping us to understand how stress and our mind influence our body and our appearance. When stress, either internal (psychological) or external (environmental), hits us, it definitely has an impact on how our skin and hair looks. Although it is common sense, since we have experienced it in the past either ourselves or seeing on other individuals, science is helping now connecting the dots between stress, related neurotransmitters and a physiological change ultimately associated with a condition and/or an appearance (looking good or looking bad).

Continued on pg 18



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Did You Know?

Cashews and almonds aren't technically nuts. So what are they?

You may have already heard that peanuts are not nuts. They are actually legumes and are members of the pea family. But did you know that cashews, almonds, and several other common "culinary nuts" are not true nuts either? To help us understand why this is, it is important to know what the definition of a true "nut" is. Botanically, a nut is a dry fruit that consists of a hard shell covering a single seed. Some examples of true nuts include acorns, chestnuts, and hazelnuts.

On the other hand, the fruits of the cashew, almond, and pistachio plants are not true nuts, but are rather classified as "drupes." Drupes are fruits that are fleshy on the outside and contain a shell covering a seed on the inside. What we consume is this seed. The classification of walnuts and pecans is not as clear cut—they have characteristics of both nuts and drupes, but don't completely fulfill the criteria for either. Some refer to them as "nut-like drupes", others as "drupaceous nuts". Interestingly, peaches and mangoes are also drupes—except in this case, we eat the fleshy exterior and not the shell and seed found inside it. Confusing, isn't it?

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Stress has been part of my life earlier on (Buddhism believes that since stress or trauma starts with birth and never really goes away, we spend our lifetime to figure out how to reduce it or alleviate it with a goal of trying reach a more balanced, happy state) and I am pretty sure that some of the specific pain I felt in some parts of my body when I was younger were created by my brain: also called a psychosomatic state. I am sure it may have happened to some of you. We generally believe that our mood can influence our organs holistically. There are publications suggesting how a positive or a negative predisposition can affect a condition, even a very serious condition, with the body releasing certain hormones. But what about the skin or the hair and how our mood or senses-related stimuli can affect our look? It was not until reading some articles published in the late 90s by Prof Paul Bigliardi, that I realized that even the skin can change physiologically based on the influence of neurotransmitters (including our very own and not just CBD...). The discovery by Paul of opiate receptors carried deep in the dermis by tiny neuro-fibers was groundbreaking.³ And the intimate connection between these receptors, the transmitters and skin thickness!⁴ More recently, the presence of smell receptors in the skin and hair triggering physiological changes.⁵⁻⁶ Can our senses change our skin appearance? Probably yes... And what about our hair look and growth? Some recent work is evidencing how the hair follicle and dermal papilla cells can be directed to arrest growth by corticosteroids related molecules,^{7,8} and how mediators like Cortisol and Cortisol spikes can determine the way our hair grows or sheds.⁹ We have clinical evidence that by supplementing our body with phytochemical-based supplements we can change the way our hair and skin look.^{10,11} There is a bigger picture, which as cosmetic scientists we need to consider when creating cosmetic products for skin and hair, and this is our inner self.

Conclusion

Our body is one and our beauty depends on how we treat our body. Nothing deeper than that. Recent scientific discoveries explain how our senses are contributing to our appearance. We investigate how different ingredients, either applied topically or ingested, can help us maintain a healthy body and healthy look. The future is holistic, and science is now on our side!

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PROGRAM FEATURES

As the only Cosmetic Science graduate certificate program in Ontario, it focuses on product formulation and cosmetic production while emphasizing the industry's evolving regulatory environment.

This program is affiliated with the following organizations:

- Society of Cosmetic Chemists (SCC)
- Cosmetics Alliance Canada

INDUSTRY SKILLS

- Prepare solutions, lotions and creams, and assist in development
- Assist in preparation and development of pigmented products
- Apply knowledge of Personal Care Product Regulations
- Review labels
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- Perform skin testing to support claims substantiation
- Operate analytical instrumentation (HPLC, GC, FTIR) according to GLP standards
- Assist in preparation of C of A
- Perform stability studies
- Perform literature searches and prepare summaries
- Assist in preparation and review of SOPs
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NEWSLETTER POSTING DATES FOR 2021

Here are the dates for 2021 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ♦ January 14th
- ♦ February 10th
- ♦ April 29th
- ♦ August 26th
- ♦ October 7th



(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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Presenters Welcome!!!



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

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

bhalasz39@gmail.com

Did You Know?

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



UPCOMING EVENTS

May 27th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— <i>‘Expanding the Rainbow’: Colors & Trends – Where they Come From and How they Influence Cosmetics, Fashion, Home & Décor</i> ” - Alison Griffin
July 22nd, 2021 Caledon Woods Golf Club		20th Annual SCC Ontario Golf Tournament 
July 14th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting - <i>“Navigating buzzwords to address demand for naturality”</i> - Pascal Yvon
September 23rd, 2021 On-Line Webinar		SCC Ontario Education Day—TBA
November 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— TBA
November 26th, 2021 The Venetian, Vaughan Ontario		Annual Holiday Dinner Dance
February 3rd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA
March 10th, 2022 The Venetian, Vaughan Ontario		SCC Ontario Annual Regulatory Meeting



ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS

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

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

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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

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MEMBERSHIP

For those who would like to become members, yearly fees are \$155 US. 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.



Address Changes??

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



August 2021

Volume XCIX

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"GMPs For Cosmetics In Canada"

2 Day Online CEP Course

Day 1: September 21, 2021 (11:00am - 2:30pm ET)

Day 2: September 22, 2021 (11:00am - 2:30pm ET)

Free = SCC Members - Ontario Chapter
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PRE-REGISTER FOR THIS 2 DAY CEP COURSE

As this particular event is "On-Line" simply click on the button below which will take you to our registration page. You will receive a calendar invite with the link to the meeting.

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Day 1: September 21, 2021 (11:00am - 2:30pm ET)

Day 2: September 22, 2021 (11:00am - 2:30pm ET)

This online CEP course is being produced for the SCC Ontario Chapter.

Course Summary

The course will provide an overview current Good Manufacturing Practices for both Cosmetic and OTC products. The course is presented to educate and review salient aspects of the cGMP regulations for drug products and globally interesting GMP regulations for cosmetics. Formulators, production personnel, business and plant managers, business owners, quality team members and auditors will benefit from the practical, Quality Systems approach used to describe GMP requirements and activities.

- In addition to the live instruction and Q&A, attendees will have access to a full replay of the course for two weeks following the live course dates.



Instructor

Karl F. Popp, R. Ph. founded KPop Consulting, LLC in 2010 as a consulting firm providing services to pharmaceutical, cosmetic and allied industries. He also is a practicing retail pharmacist. From 1989 to 2008 he was associated with Stiefel Laboratories as Director of Product Development, and later as Senior Director of Special Projects coordinating external manufacturing, global research activities, and managing the corporation's intellectual property estate. Prior to joining Stiefel in 1989, he was a Scientist and Project Manager for the Sterling-Winthrop Research Group. During his career he has been responsible for the development of products that have generated over \$2 billion in sales. He has over 40 years of experience in laboratory and GMP production operations. He earned his B. S. in Pharmacy from the Albany College of Pharmacy, an M.B.A. from Rensselaer Polytechnic Institute. Karl is a member of the Society of Cosmetic Chemists and a licensed pharmacist (NY). He has been active in the SCC in coordinating local educational seminars and as past New England chapter chair, has served on the National Committee on Scientific Affairs and as the Society's President in 1999. Karl was elected a Fellow of the Society in 2002 and an Emeritus Member in 2015. He is an inventor, an author and a scientist. His interests encompass topical, oral, inhalation, and parenteral dosage forms in addition to various therapeutic categories. During his over 40 years in the industry, Karl Popp has lectured around the globe on new product development activities including GMPs, regulatory strategies, product pipeline efforts, process validation, product life cycle management, and management of intellectual property.

Who Should Attend

The course is designed not only to introduce GMPs to those new to the industry, but also as a review for those experienced in this regulatory area. Participants will leave with an appreciation of the intent of the GMP regulations and knowledge of factors impacting the organization and personnel, buildings and equipment, cleaning and sanitization activities, component and process controls, laboratory and production documentation, packaging and label controls, as well as complaint and recall management. Participants will also learn about preparing SOPs, components of a stability program, importance of process water for manufacturing, what is meant by process validation, and the importance of internal audits.

Pricing

Free = SCC Members - Ontario Chapter

\$100 = Non-Members (Ontario)

[REGISTER NOW](#)

Note: If you need assistance with a group registration, or have any other questions, please contact the SCC Headquarters staff at cep@scconline.org.

View our CEP Course Pricing and Refund Policy [here](#).

CEP Course: GMPs for Cosmetics in Canada

Schedule

Program Contents

The following areas will be covered during the course:

- Insights to Canadian Cosmetic Regulations
- Organization and Personnel
- Buildings and Facilities
- Equipment and Calibration
- Cleaning and Sanitization
- Control of Components
- Laboratory and Production Documentation
- Production and Process Controls
- Packaging and Label Controls
- Exporting Cosmetics to the US
- Stability Testing
- Warehousing and Distribution of Product
- Laboratory Controls
- Writing SOPs
- Process Water Systems
- Management of Complaints and Recalls
- Validation activities
- Auditing, Internal and External, for Compliance

DAY 1 (09/21/2021)

- 11:00am-12:30pm ET - Live Lecture & Q&A
- 12:30pm-1:00pm ET - Break
- 1:00pm-2:30pm ET - Live Lecture & Q&A

DAY 2 (09/22/2021)

- 11:00am-12:30pm ET - Live Lecture & Q&A
- 12:30pm-1:00pm ET - Break
- 1:00pm-2:30pm ET - Live Lecture & Q&A



This online CEP course is being produced for the SCC Ontario Chapter.



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2022 SCC Ontario Chapter Board Elections

It is time for the election of the 2022 SCC Ontario Chapter Board Members. We have two positions open for election this year: Chair-Elect and Secretary.

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 4th, 2021 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

2021 SCC Ontario Chapter Board Members

Position	Name	Phone	Email
Chair	Shahin Kalantari	416-567-6572	shahink@davicenna.com
Chair-Elect	Mary Seifi	416-726-2702	mseifi@grantinc.com
Treasurer	Robert Castillo	416-740-5300	rob.castillo@univarsolutions.com
Secretary	Andrea Boylan	905-795-0911	andrea.boylan@andicor.com

2022 Ontario Chapter Candidates

CHAIR ELECT

Candidate: Elizabeth Peitsis

Liz is currently, proudly, Employed at IMCD as a Technical Sales Account Manager. Liz has contributed to the SCC and Cosmetics Industry for over 15 years. She has worked/excelled in both Sales and Supply Chain/Manufacturing with unique/broad experience and understanding within the Cosmetics field. Through various roles, her willingness to help, dedication and integrity is well known and respected within the industry. Her driven, innovative and outgoing personality is always evident, striving for the best, taking pride in all endeavours. Previously Chair of 2018 -Continual Success and Excellence will be transferred to role of SCC Ontario Chair Elect/Chair 2022/2023. Looking forward to the future, better times and great successes.

SECRETARY

Candidate: Tanya Baksh

Tanya Baksh earned a Bachelor of Science degree from the University of British Columbia in 1997. Tanya is currently working as Sales Manager for the Canadian market for Essential Ingredients heading up the expansion into Canada. Over the years Tanya had various Sales and Product Management roles in various industries at Canada Colors and Chemicals. The most recent role prior to joining Ei was Sales Manager for the Food and Fine Ingredients Canadian team at CCC Ingredients and Account Manager for Personal Care accounts in Ontario for about 10 years until the acquisition of CCC by Brenntag in 2018.

Tanya has been an active SCC Ontario chapter member since 2015 and recently became Board Member at the end of 2019. Tanya is excited to further her involvement with the SCC Ontario chapter in the hopes of paving a brighter future for the cosmetic industry



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PROGRAM FEATURES

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This program is affiliated with the following organizations:

- Society of Cosmetic Chemists (SCC)
- Cosmetics Alliance Canada

INDUSTRY SKILLS

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- Assist in preparation and development of pigmented products
- Apply knowledge of Personal Care Product Regulations
- Review labels
- Perform and report microbiological assays
- Perform skin testing to support claims substantiation
- Operate analytical instrumentation (HPLC, GC, FTIR) according to GLP standards
- Assist in preparation of C of A
- Perform stability studies
- Perform literature searches and prepare summaries
- Assist in preparation and review of SOPs
- Communicate and co-ordinate with team members

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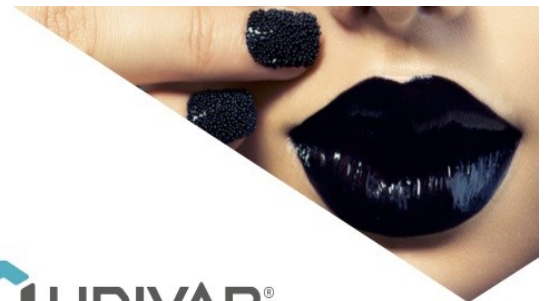


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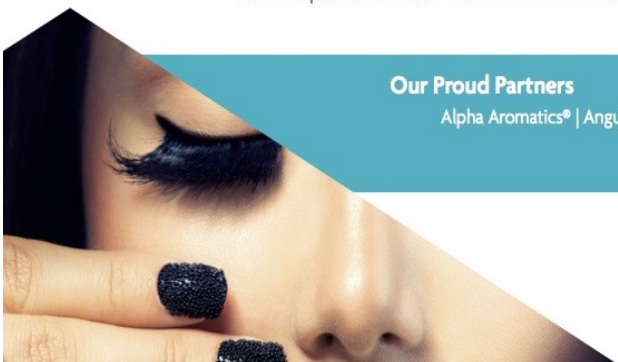


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Strongly disagree

SURVEY SAYS...

Please keep an eye out for our “**post meeting**” opinion surveys following our Chapter meetings and special events. Each year the **Ontario Chapter** is privileged to host many fine speakers and we would like to recognize them for their efforts. Following each meeting attendees will receive a **very short survey** asking to rate the speaker. Responding gives you a chance to win a \$25 gift card!

At the end of the year we will tally the results and present one of them with an award as “**Speaker of the Year**”.

May 27th Virtual Meeting Recap

The SCC Ontario Chapter was pleased to host Alison Griffin from Sudarshan North America where the “virtual” topic of the day was “**Expanding the Rainbow’: Colors & Trends – Where they Come From and How they Influence Cosmetics, Fashion, Home & Décor**”. Alison’s presentation went into great detail as to how colours and colour have been influenced by our society for centuries! She went on to discuss how these trends can be influenced by the economy, world events, music, celebrities and marketing companies. By comparison Alison talked about past trends as well as present and also how the home & décor trends are influenced in parallel to the fashion & cosmetics trends.



Alison’s presentation was recorded and can be viewed here



Alison Griffin has over 25 years of experience in the Cosmetics / Personal Care industry. Starting her career in R&D, she has worked in both the finished good end (Avon Skin Care Lab) as well as in the supplier end. She has 20 years of experience in raw material sales, 10 of which have been for pigments companies.

She has been the recipient of Regional Sales Awards / Regional Marketing Innovation Award, two SCC Chapter Speaker Awards and the NYSCC Chapter Merit Award (where she was also Chair) She has a B.S. (Biology) from Gettysburg College and an M.A. (Cosmetic Science) from Fairleigh-Dickinson University.

July 14th Virtual Meeting Recap

On July 14th, 2021 the SCC Ontario Chapter held a “bonus” summer virtual meeting and were happy to have guest speaker **Noellie Astruc** present on the topic of “**Navigating buzzwords to address demand for naturality**”. The presentation discussed consumer demand for natural cosmetics which she noted has been continuously growing over recent years, with a great focus on truly natural products containing natural ingredients. Noellie discussed how consumers want full naturality. It is not just about a product to address a fleeting trend; they want a series of attributes that address their long-term 360° lifestyle for wellness and holistic well-being goal. In addition to the lack of definition from regulatory bodies for “natural”, thus for “Natural beauty”, recent years have seen the emergence of many buzzwords used to describe industry market movements, such as “Clean beauty”, “Green beauty”, and more recently “Conscious beauty”, which are being used with various interpretations. Thus potentially causing confusion in the marketplace and possible consumer misconceptions.



Noellie’s presentation was recorded and can be viewed here



Noellie Astruc has over 5 years of international experience in the cosmetics industry. She has worked for global corporations around the world, such as Beiersdorf and L’Oreal, as part of their research & innovation teams. Noellie Astruc graduated with a Chemistry Engineering degree from CPE, Lyon, and a Business Development master’s degree from INSA Toulouse. As a Business Development Specialist for the Midwest and Canada regions, Noellie supports clients in the beauty industry with natural solutions.

How much do you really know about Fats and Oils?



Written by Benjamin Schwartz, Senior Personal Care Applications Specialist – AAK

FATS AND OILS ARE UBIQUITOUS IN PERSONAL CARE AND COSMETIC FORMULATIONS.

So much so that as cosmetics chemists we often take them for granted or fail to appreciate their various characteristics. Whether natural plant oils/fats, synthetic esters, or petroleum-derived hydrocarbons, we often don't consider much more than the aesthetics of whether one feels lighter or heavier, slippery or draggy. Even more overlooked is how their unique chemical compositions deter-

mine those characteristics and how they apply to different product types.

Despite our industry's somewhat naive approach, this is a subject that can encompass entire careers for some lipid chemists. But for the sake of blog-post brevity we will keep the scope of this current conversation somewhat narrow.

Here we'll go through a brief overview of how the molecular structure of triglycerides, and the fatty acids that comprise them, determine the interdependent properties of oxidative stability, melt profile, and compatibility of different oils and fats. Knowing how these properties determine the unique characteristics of particular oils and fats can help us to make better choices for different product applications.

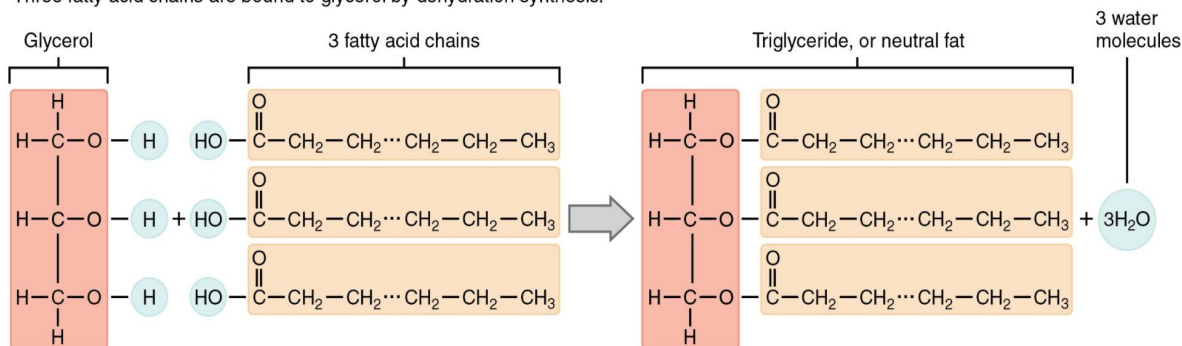
WHAT ARE TRIGLYCERIDES?

To take things all the way back to the beginning, we should explain that triglycerides are the major molecular class comprising natural fats and oils. Which is also to say that the science of oils and fats can often be reduced to the science of triglycerides. This is because once natural oils and fats have been put through their typical processing and refinement the only non-triglyceride components usually left will be sterols (and some other sterol-like components), and often at a level less than 1%. So, it can often be safely assumed that the characteristics of different oils and fats are simply the macro level behaviors of different combinations of various triglycerides.

So, let's look at the basic structure of triglycerides and their constituent fatty acids. A triglyceride is composed of three fatty acid chains connected via a glycerol backbone. The bonds at which the fatty acids join the glycerol are ester bonds, created by dehydration synthesis using the carboxylic group of one fatty acid and one of the hydroxyl groups of the glycerol (Fig. 1):

Fig.1 – Triglyceride ester formation via dehydration synthesis

Three fatty acid chains are bound to glycerol by dehydration synthesis.



continued next page

Once the triglyceride is formed we get a structure like that shown in Fig. 2:

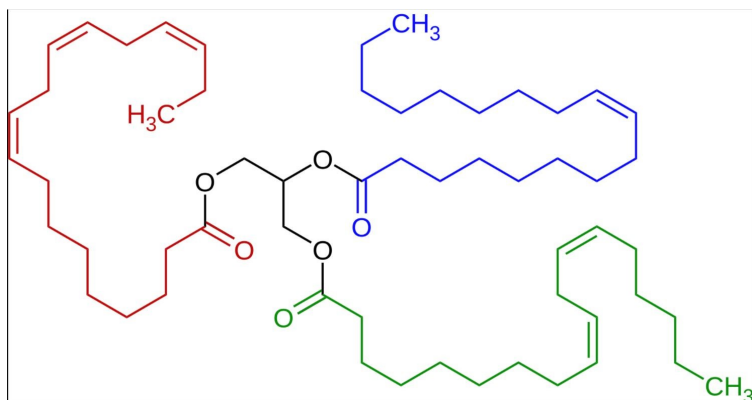


Fig. 2 – Example triglyceride with one oleic chain C18:1 (blue), one linoleic chain C18:2 (green), and one linolenic chain C18:3 (red)

(It's important to remember that the structure shown in Fig. 2 is a flattened two-dimensional depiction of a three-dimensional object. In reality, this molecule would be folded into a complex, bulky shape.)

As you can see in Fig. 2, there can be different types of fatty acids present in a single triglyceride molecule. Some may be fully saturated, like Stearic Acid (Fig. 3), and have an overall linear shape, with no kinks or bends. Others may be mono-unsaturated like Oleic Acid (Fig. 4), or poly-unsaturated like Linoleic Acid (Fig. 5), and capable of bending and folding in various ways. The degrees of unsaturation (or the number of double bonds in the chain) determine the flexibility of each chain, and thus the possible shapes and compartments of the overall molecule.



Fig. 3 – Stearic Acid C18:0

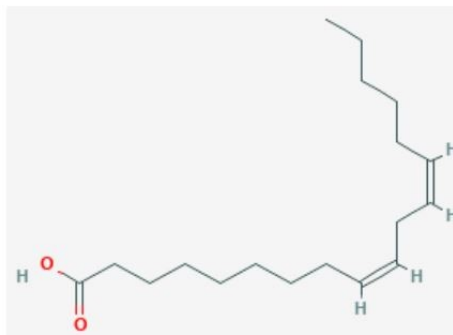
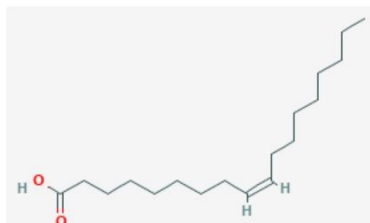


Fig. 5 – Linoleic Acid C18:2

WHY IS THIS IMPORTANT?

There are two crucial things to take from these descriptions and illustrations of fatty acid chains and their structural contribution to triglyceride composition and shape.

One, is that the relationship between the degrees of unsaturation of the fatty acid chains and the shape of the overall triglyceride molecule is what **determines the melt point of the triglyceride (or rather the melt point of a significant mass of identically constituted triglyceride molecules)**. This relationship between unsaturation and molecular shape also relates to compatibility of different oils and fats, which we won't discuss much here.

Two, is that the degrees of unsaturation within the fatty acids of a triglyceride **determine the vulnerability of that triglyceride to degradation via oxidation (also to photodegradation)**.

So, a mass of oil or fat that has higher degrees of unsaturation within its constituent fatty acids will have a lower melt point and a greater vulnerability to oxidation. While a mass of oil or fat that has lower degrees of unsaturation within its constituent fatty acids will have a higher melt point and a lower vulnerability to oxidation.

Thus, degrees of unsaturation and melt point have an inverse relationship. That is, the more unsaturation, or the more double bonds present, the lower the melt point (Fig. 6). As well, the degrees of unsaturation and oxidative stability also have an inverse relationship. That is, the more unsaturation, or the more double bonds present, the lower the oxidative stability.

continued on page 21

Seneca College is pleased to announce the three recipients of the 2020/21 Society of Cosmetic Chemists Bursary and Scholarship Awards!

Society of Cosmetic Chemists Scholarships
Nadreen Elshawish
Lachae Hood

Society of Cosmetic Chemists Bursary
Jaeden Cowan

Please take some time to read through our very worthy recipients thank you letters...



Video featuring Seneca President David Agnew



Thank you letter

Award: Society of Cosmetic Chemists Bursary
 Received by: Jaeden Cowan
 Program: Chemical Laboratory Technology – Pharmaceuticals
 Dear Donor,



My name is Jaeden Cowan, and I am honored to be one of the recipients of the Society of Cosmetic Chemists Bursary. I am currently in the program of "Chemical Laboratory Technology - Pharmaceuticals" at Seneca College.

A few personal hobbies of mine are reading fantasy, sci-fi, and dystopian genres, and journaling to keep my busy life organized. My favourite course is currently chemistry. Chemistry is everywhere in the world around us. It is in the food we eat, clothes and makeup we wear, water we drink, medicines and cleaners that we use. I believe that chemistry is the central science or the root of science because it connects other sciences together, so a good understanding of chemistry makes other sciences easier to understand.

Studying at Seneca College helped me find this love of chemistry because of the amazing faculty and resources available to me as a student. Throughout my studies during the 2020/2021 school year, I was able to meet some fantastic and helpful faculty through my online learning and practical learning in the school's laboratories. The online learning throughout this pandemic has been quite difficult for me to be quite honest. I have been diagnosed with a permanent learning disability, depression, and anxiety which give hardships, but not to mention the new difficulties that arose with complete online learning. But I did not let any of these hardships pull me down, so I pushed through my studies by staying organized and used every minute to be productive, and successfully finished the year. This pandemic has definitely taught me that self-love and mental health are so important, to never take anything for granted, and to live like today is your last and tomorrow is too late.

Your bursary has opened doors and the possibility of a brighter future and will play an important role in shaping me into a successful person in the future. Donors like you make life brighter for us, and I can hope that one day in the future I will be in a position to bring a smile to a student as well. I do not have the words to express my appreciation for your generous support that will help me achieve my career aspirations and goals.

With much appreciation,
 Jaeden Cowan



Thank you letter

Award: Society of Cosmetic Chemists Award
 Received by: Nadreen Elshawish
 Program: Cosmetic Science
 Dear Donor,



My name is Nadreen Elshawish, I am a current Cosmetic Science student and a recent Bachelor of Chemistry graduate. This past year, I have had the incredible opportunity to be a part of Seneca's Cosmetic Science program. I have gained knowledge in the various aspects of cosmetic product development, specifically: marketing, regulations, formulation, quality assurance, and product evaluation. I found this information vital, as I was able to apply this knowledge to my Capstone project. The Capstone project was a major aspect of why I joined Seneca's Cosmetic Science program, as it is an excellent opportunity to gain hands-on experience. The past four months I have been able to formulate my Capstone product in the laboratory from start to finish – an extremely unique opportunity. I also had the chance to formulate various other products through the classes offered in the program. More specifically, I really enjoyed the pigments class, as I was able to formulate lipsticks, lip glosses, eyeshadows, and hot pours, all while gaining experience in colour matching. Evidently, the Cosmetic Science program is one of a kind and an excellent opportunity to gain knowledge and laboratory experience to further my career goals of working in the cosmetic industry.

Although this past year has been challenging due to the pandemic and the shift to online learning, the professors and faculty did an excellent job in ensuring we were taught all the necessary information and had the chance to be in the laboratory. Unfortunately though, the pandemic has caused a great financial burden for many, yet the generosity of the Society of Cosmetic Chemists has eased this by supporting my studies. This past year has been unlike any other, and I am glad to have met knowledgeable professors, lab instructors, and classmates. Lastly, I am excited to announce that because of the Work-Integrated program that Seneca College offers, I will be working as a Regulatory Affairs student this summer. I am excited to put my knowledge to the test, and work in the industry – a goal that I have had for a while.

Once again, I wholeheartedly appreciate the generosity and sincerely thank the Society of Cosmetic Chemists for this award.

Nadreen Elshawish

Seneca
 Seneca Advancement & Alumni
 advancement@senecacollege.ca



Thank you letter

Award: Society of Cosmetic Chemists Award
 Received by: LaChae Hood
 Program: Cosmetic Science
 Dear Donor,



My name is LaChae Hood and as you know I am a student of the Cosmetic Science Program here at Seneca. After completing my undergraduate degree in Biochemistry and working in the medical cannabis sector for a few years, I knew I needed a change. I had always been interested in cosmetics, more specifically hair care products as I rediscovered how to properly take care of my curly hair. It wasn't until I discovered this program, that I realized that there was a science to cosmetics! This program seemed like the perfect fit for me, combining my love for science and cosmetics, while also being able to use my creative side (where a lot of my hobbies lie). Though COVID has been a challenge this year for everyone (even delaying the start of course and decreasing the amount of lab time my class was able to have), I have learned a lot throughout the course of this past year. My favourite courses were definitely Formulation and the Capstone project where I am working on a team to create a cosmetic product from scratch.

I want to thank you for allowing me the opportunity to receive this award, as it relieves some of the financial burden that undergoing this course brings. This award is assisting me in achieving my future goals of becoming a cosmetic chemist and formulator. One day, I would actually love to start my own business that focuses on sustainability in hair care products that are targeted towards curly hair, while also being very travel friendly (another one of my passions).

Best Regards,
 LaChae Hood

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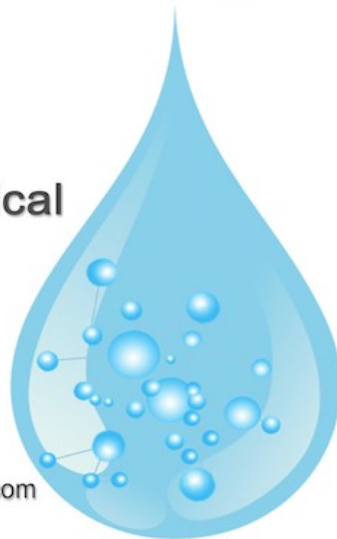


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Did You Know?

Washing your hair? In Vancouver soap will work, but in Montreal it has to be shampoo. Why? Because Vancouver water is soft and Montreal water is hard.

Did you know that in Vancouver you can wash your hair with soap but in Montreal you need shampoo? Why? Because Vancouver water is soft and Montreal water is hard. That makes a big difference when it comes to satisfaction with hair washing. Hard water contains dissolved calcium and magnesium ions which react with soap to form a precipitate. This is the classic "bathtub ring." The grayish deposit is bad enough on a tub, but you sure don't want it on the hair. Vancouver has very soft water and soap will suds nicely and will not leave a deposit. In Montreal, on the other hand, the calcium and magnesium in the water will react with soap and form an insoluble scum. The active ingredient in shampoo is a "detergent," which like soap is a long molecule that has one end that is attracted to water and another that dissolves in fat. Dirt is embedded in the oily layer that naturally coats the hair, and the soap or detergent molecules can remove this by anchoring one end in the oil while the other end binds to water. Rinsing then removes the oily layer and the soil it harbours. The big difference between a soap and a detergent is that the detergent does not form a precipitate with calcium or magnesium. And that's why you can use soap in Vancouver to wash your hair but not in Montreal.

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Seneca Capstone Projects 2021

2021 was a trying year for everyone. At Seneca, we had lectures online and labs were reduced in class size and number of labs allowed.

For the Capstone projects we had 3 small companies working with us and a research project from within Seneca. As demonstrated in the past, the students were once again outstanding in what they were able to accomplish in the 14-week period.

The projects included a day cream with ostrich oil and egg yolk, a mattifying primer for acne, a brightening moisturizer for dark skin and an eczema cream. We had the formulators in the lab every week, but the rest of the team work was done via online meetings, including each team's updates and consultation with the companies. The students worked well with the companies and overcame many challenges.

The judges were again amazed at what the students were able to achieve. We were again very lucky to have corporate support for the awards. The winners were:



Sponsor Company	Amount	Award	Winner
Cambrian	\$100	Project Manager	Nadreen Elswish
Andicor	\$100	Marketing	Ostrichland Team
Lucas Meyer	\$100	Formulation	Heather McNeil
IMCD	\$100	Regulatory	Chloe Li
Dermachem	\$100	Packaging	Noura Nachar
StarChem	\$100	Quality	Vivian Bui
Vivachem	\$500	Team	Ostrichland Team

The Ostrichland team was: Maya Hudon-Kaide - Project Manager, Everyone – Marketing, Yeri Kim – Packaging, Heather McNeil – Formulation, Bonnie Duong – Regulatory and Michelle Li – Quality.

Thank you again to all of the companies that support the Seneca Cosmetic Science Graduate Certificate program and supply samples and guidance to our students! We greatly appreciate everything you do!

Seneca College Cosmetic Science program is looking for companies to partner with for Cosmetic Research Projects and for the student Capstone Projects for January 2022. If you are interested, please contact Tina Perricone at tina.perricone@senecacollege.ca or Sharon Robertson at sharon.robertson@senecacollege.ca

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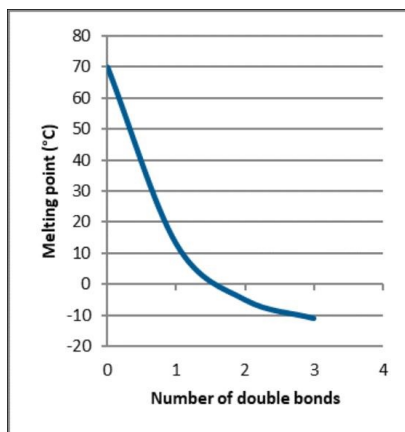


Fig. 6 – Melt point versus double bonds (unsaturation) present in a fatty acid chain

(One thing that we're not considering for the sake of simplicity is the chain length of the fatty acids, though this can be a significant factor in melt point, and to a lesser extent oxidative stability. Though, it should be noted that the degree of unsaturation has a more significant effect on melt point than chain length for the fatty acid range that we typically consider in plant oils and fats. An example of this would be that the melt point difference between Lauric Acid C12:0 and Stearic Acid C18:0 is about 30C degrees, while the difference in melt point between Stearic Acid C18:0 and Oleic Acid C18:1 is about 60C degrees.)

WHAT'S NEXT?

There is a deeper conversation to be had about how individual triglyceride molecules line up when crystallized into a solid, and how this ability of the molecules to stack and align in a particular fashion is really the mechanism that determines the melt point of individual fats oils and the compatibility between different oils and fats, but that's beyond the scope of this post.

As well, there is another conversation to be had concerning how the double bonds present in mono-unsaturated and poly-unsaturated fatty acids are the sites of vulnerability to attack by oxygen atoms, and how that process occurs chemically, but again that is beyond the scope of this article.

(One last technical point is that the analytic measurement used to determine the degree of unsaturation is known as Iodine Value. If you ever see Iodine Value, or IV, on a specification sheet this refers directly to a measurement of how many double bonds there are in a mass of oil or fat. The units are essentially arbitrary, but the typical range is about 0-200, with most natural oils falling in between these two limits. For example, Coconut Oil has an IV of about 8-12, while Flaxseed Oil is about 178.)

Now that we have a decent understanding of fatty acid saturation and how it determines the characteristics of a triglyceride, let's look at a couple of examples of actual oils and fats.

OILS AND FATS

The first is Coconut Oil, which is a fairly simple example, as it is composed almost entirely of saturated fatty acids (Fig. 7).

Fatty Acid Chain Length	Percentage
Caprylic Acid C8:0	9
Capric Acid C10:0	6
Lauric Acid C12:0	47
Myristic Acid C14:0	18
Palmitic Acid C16:0	9
Stearic Acid C18:0	3
Oleic Acid C18:1	6

Fig. 7 – Coconut Oil Fatty Acid Composition. Dominated by Lauric Acid, a medium chain, saturated fatty acid.

We can see that only about 6% of the triglycerides of Coconut Oil are composed of unsaturated fatty acids. Thus, given what we just reviewed, we should expect that Coconut Oil will have a relatively higher melt point and that it should be relatively stable against oxidation. And that is what we see. Anyone who has seen a jar of Coconut Oil knows that it is solid or semi-solid at room temperature (~22°C), as opposed to most common oils which are fully liquid at room temperature. And anyone who has kept a jar of Coconut Oil in their pantry, or lab, for a significant amount of time will know that it rarely goes rancid. And now we know that these two characteristics of Coconut Oil, solidity at room temperature and long-term stability, are directly determined by its fatty acid composition.

Let's look at one more example to close out our discussion.

Corn oil is another common oil but it has a fatty acid composition that is markedly different from Coconut Oil (Fig. 8).

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HISTORY OF OUR SOCIETY

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1945

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



1948

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

1999

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



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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



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NEWSLETTER POSTING DATES FOR 2021

Here are the dates for 2021 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 14th
- ◆ February 10th
- ◆ April 29th
- ◆ August 26th
- ◆ October 7th



(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>

continued from page 21

Corn Oil Fatty Acid Composition

Fatty Acid Chain Length	Percentage
Palmitic Acid C16:0	10
Stearic Acid C18:0	2
Oleic Acid C18:1	29
Linoleic Acid 18:2	56
Linolenic Acid 18:3	3

Fig. 8 – Corn Oil Fatty Acid Composition. Dominated by Linoleic Acid, a long chain, polyunsaturated fatty acid.

When we look at the composition of Corn Oil, we see that it is composed of only about 12% saturated fatty acids, and almost 60% polyunsaturated fatty acids. Thus, we should expect that it will have a relatively low melt point and should be relatively unstable against oxidation. And again, that is what we see. Of course, Corn Oil is liquid at room temperature, so its melt point is somewhat irrelevant for our purposes. However, we can instead talk about its freeze point, which is about -11°C. This is well below the freezing point of water. So, while Coconut Oil is typically solid at room temperature, Corn Oil will remain liquid well past the point of ice forming. That's a difference of about 35C degrees. Now we can really start to see how the fatty acid composition of different oils can affect their respective melting and freezing points.

Additionally, we can look at the oxidative stability of these two example oils. Corn Oil has a relatively low oxidative stability because its high poly-unsaturated fatty acid content drastically increases its vulnerability to degradation relative to an oil like Coconut Oil. And if you've ever looked at the specification sheet of Corn Oil that is intended for use in a personal care or cosmetic product, you will likely see that it has some form of antioxidant added. This is necessary for the oil to maintain a decent shelf life. Whereas Coconut Oil will rarely, if ever, have an anti-oxidant added. (In the past, this would have been synthetic compounds like TBHQ, BHT, or BHA. However, as the market calls for more natural solutions we have seen increased use of Tocopherols and Rosemary Extract.)

The last point I'll make about these two oils is that they are not very compatible. That is, if you were to use them at equivalent levels in the oil phase of an emulsion, or an anhydrous product, they would not want to form a very stable, homogenous mixture. And this is again because of the differences in their fatty acid compositions. Their differences of medium chain versus long chain, saturated versus poly-unsaturated, and higher versus lower melt points do not allow for their triglyceride molecules to line up well with each other. They're different shapes and because of this they want to crystallize at drastically different temperatures. Because of this incompatibility we would want to choose one oil as the major portion and the other as a minor portion. Such that there is at least a 2:1 ratio.

CONCLUSION

Hopefully, this brief comparison of two common oils has given us some perspective as to how differences in triglyceride and fatty acid composition directly determine the unique characteristics of different oils and fats.





We could spend a lot more time getting into the details of what we've discussed here, as well as further comparisons of fats like Shea Butter or oils like High Oleic Sunflower Oil, but that will have to be for another time.

About the Author

Graduating with a Bachelor's Degree in Biological Sciences, Benjamin Schwartz began his career in Personal Care as a lab technician for The Estee Lauder Companies. After a move to the west coast, he spent 12 years as an R&D Chemist, and then Manager, for contract manufacturer Columbia Cosmetics. Through this experience, he has gained an intimate knowledge of personal care chemistry and formulations. Now having joined AAK, a global vegetable oil manufacturer, he brings this knowledge and insight to the world of plant-based lipids and their applications for personal care and cosmetics.



UPCOMING EVENTS

September 21st-22nd, 2021 On-Line Webinar		SCC Ontario Education Day— Online CEP Course: GMPs for Cosmetics in Canada—Karl F. Popp, R. Ph
November 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— “New Perspectives on Aging Skin” EMD Performance Materials— Howard Epstein, Ph.D.
November 26th, 2021 The Venetian, Vaughan Ontario		Annual Holiday Dinner Dance 
February 3rd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA
March 10th, 2022 The Venetian, Vaughan Ontario		SCC Ontario Annual Regulatory Meeting— TBA
May 26th, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA
July 2022 Caledon Woods Golf Club		TBA
September 22nd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Education Day— TBA
November 3rd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA



ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS

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

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

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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

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For those who would like to become members, yearly fees are \$155 US. Applications are available from your Executive Committee or on-line at;

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Presentation Library

Peruse our wide selection of presentations from previous meetings

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

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.



Address Changes??

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 2021

Volume C

2021 Ontario Chapter Officers

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ON-LINE SCC CHAPTER MEETING

"New Perspectives on Aging Skin"

- Howard Epstein

**November 4th, 2021
4PM ET**

PRE-REGISTER FOR THIS VIRTUAL CHAPTER MEETING

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ON-LINE SCC CHAPTER MEETING

“New Perspectives on Aging Skin”

- Howard Epstein

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Abstract:

New Perspectives on Aging Skin

The world's population of people over 60 years of age is rapidly increasing as is life expectancy. For this reason, the cosmetics industry is interested in understanding the biology of aging skin with a goal to fight the appearance of aging skin and ultimately slow down the aging process.

Aging is a complex series of events that occur slowly over the course of time. Both internal and external factors influence aging skin. There are variations in the way people age that are associated with genetics, gender, ethnicity and lifestyle.


This presentation will discuss photoaging associated with chronic inflammation, UV, IR and blue light-induced photoaging, protein oxidation and why the impact of each may result in a difference of aging skin in various skin types. Understanding the molecular mechanisms associated with the variation of aging including the variation in appearance of aging skin will help in product development of improved personalized skin and hair care products

Bio:

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 and two patent applications. He received the Maison G. deNavarre Medal Award in 2020, the society's highest honor supporting the best interests of the cosmetics and personal care industry.

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SCC Membership Dues Renewal

Renewal notices for 2022 were mailed out recently. Final notices will be sent at the end of November. Dues fees are US\$160.00.

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**Members who do not renew by
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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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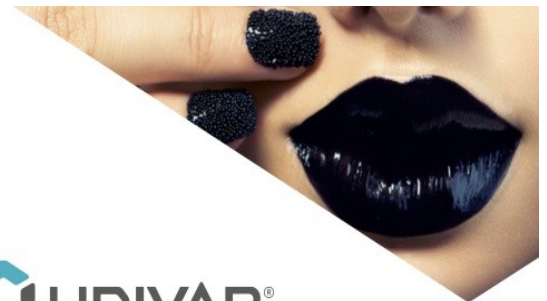


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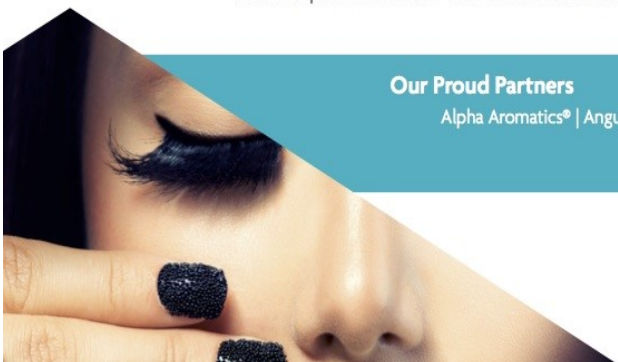


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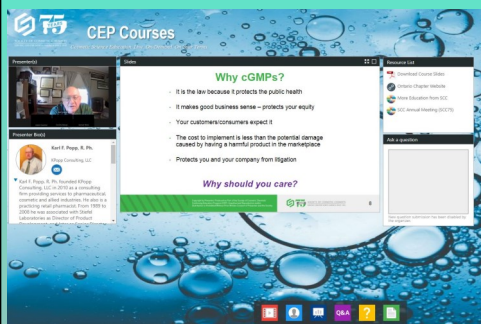




Education Day Recap September 21-22



On September 21st and 22nd SCC Ontario held their annual Education Day. This 2 day virtual event was a CEP (Continuing Education Program) produced for the Ontario Chapter by the SCC National.



We were pleased to host **Karl Popp** who presented the course, “**GMPs for Cosmetics in Canada**” which provided an overview of current Good Manufacturing Practices for both Cosmetic and OTC products. Karl reviewed the salient aspects of the cGMP regulations for drug products as well as global GMP regulations for cosmetics. The course was specifically designed not only to introduce GMPs to those new to the industry, but also as a review for those experienced in this regulatory area. Participants came away with an appreciation of the intent of GMP regulations and knowledge of factors impacting the organization and personnel, buildings and equipment, cleaning and sanitization activities, component and process controls, laboratory and production documentation, packaging

and label controls, as well as complaint and recall management. Other topics covered were SOPs, components of a stability program, importance of process water for manufacturing, what is meant by process validation, and the importance of internal audits.



Karl F. Popp, R. Ph. founded KPop Consulting, LLC in 2010 as a consulting firm providing services to pharmaceutical, cosmetic and allied industries. He also is a practicing retail pharmacist.

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Advances in Antioxidant Technology for Skin Care

Roger L. McMullen, Ph.D.

In the last two decades the role of antioxidants in skin care has radically changed. In the early 2000s, it was typical to find finished formulas on the shelf that contained butylated hydroxytoluene (BHT) or butylated hydroxyanisole (BHA), which were mostly added to enhance the shelf-life of the product. As time went on, formulas containing vitamin C and vitamin E (alpha-tocopherol) became more common since many studies carried out during that period demonstrated the invaluable benefits provided to the skin by these antioxidants.

As the personal care industry entered the end of the first decade in the new millennium, naturally derived ingredients started to become more and more common. Of course, most of these ingredients were based on botanical ingredients, which are chock-full of polyphenols and other ingredients with antioxidant properties. Antioxidants have also become key components of sunscreen formulas, as research demonstrated unique benefits from the addition of antioxidants in addition to any UV absorption properties. Further, a great deal of research has gone into delivery systems for antioxidants, which provide targeted delivery and stability for antioxidants. Nowadays, one can find antioxidants in just about every type of skin care product in the marketplace. In this article, we will review some of the latest advances in antioxidant technology in the skin care arena.

Skin Protection by Antioxidants from Natural Sources

Topical and oral administration of antioxidants for the skin is still a very active field of research [1]. In the personal care industry and academia, a great deal of understanding has been accomplished in the area of topical antioxidant treatments. There are a host of different molecules that have proven to be efficacious for the protection of skin. Some of the most commonly studied antioxidants for topical skin treatment consist of ascorbic acid (vitamin C), alpha-tocopherol (vitamin E), and catechins from green tea. Some other popular ingredients include lycopene, carotene, genistein, rutin, and caffeine [2].

In recent years, most of the focus on new antioxidant product development has been in the botanical arena [1, 3, 4]. Phytochemicals are molecules that are produced by plants. Much effort has gone into understanding their antioxidant, anti-inflammatory, and anti-carcinogenic potential for skin care. There are several recent examples in the literature where the biological activity (antioxidant properties) of botanical ingredients applied to the skin or in cell culture is demonstrated (see Table 1)

Table 1. Examples of studies utilizing botanical ingredients for the treatment of skin

Source	Key Components	Efficacy Measurements	Reference
<i>Moringa oleifera</i> seed oil	Alpha-tocopherol; plant sterols; fatty acids	DPPH free radical scavenging assay; skin hydration, erythema melanin values, and elasticity	[5]
Brown algae	Laminarin (polysaccharide)	Collagen fiber density, superoxide production, and expression of antioxidant enzymes in UVB-exposed murine skin	[6]
<i>Hibiscus syriacus</i> L. (Malvaceae)	Anthocyanin-enriched polyphenols	UVB-induced apoptosis, endoplasmic reticulum stress, and mitochondrial reactive oxygen species in HaCaT keratinocytes	[7]
Fermented Yak-Kong (a small black soybean)	Phenolic acids, isoflavones, and proanthocyanidins	Effect of UV exposure on: in vivo wrinkle formation; MMP-1, AP-1, ERK1/2, and JNK1/2 activity in HaCaT keratinocytes; and degradation of collagen in a 3D skin model	[8]

In some cases, natural ingredients have a limited shelf life or are not stable in different formulation chassis. As such, synthetic ingredients are often inspired by nature. A recent example in the personal care industry is acetyl zingerone, which is structurally similar to zingerone found in the root of the ginger plant, *Zingiber officinale* [9]. Aguirre-Cruz et al. recently demonstrated the antioxidant potential of peptides, specifically hydrolyzed collagen, to protect the skin from environmental stress [10]. The precise mechanism in which peptides act as antioxidants is not known; however, proton (or electron) donation is suspected to play a role.

In the last decade a tremendous amount of research has been conducted to determine the benefits of molecules from *cannabis*—a genus of plants from the *cannabaceae* family. There are a number of phytocannabinoids that have been identified from the hemp plant; however, cannabidiol (CBD) is one of the most studied molecules. Baswan et al. provide a comprehensive review of work conducted in relation to the topical treatment of skin with CBD [11]. It was proposed that CBD has potential to treat eczema, psoriasis, pruritis, and inflammatory conditions.

In addition to topical application, antioxidants and other essential nutrients obtained through the diet (oral consumption) play an integral role in the health state of the skin. This is especially true in regard to moisturization, care of aging skin, and protection against the effects of UV radiation. Many of these key dietary components consist of: omega-3 and omega-6 fatty acids; vitamins A, C, and E; carotenoids; polyphenols; and selenium, zinc, and copper [12].

Continued on page 15

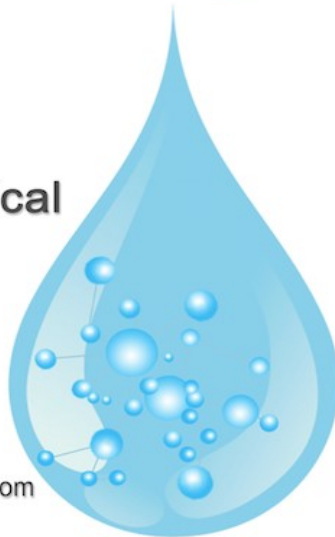


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Antioxidant Delivery Systems

Some of the challenges with the conventional delivery of antioxidants stems from their poor solubility, limited shelf-life stability, compromised photostability, and low degree of skin permeability. Delivery systems enhance the ability of antioxidants to carry out their biological function. Various types of emulsion, vesicular, lipid particle, nanoparticle, and nanocarrier systems have been studied and developed in recent years to aid in the stabilization and delivery of antioxidants to the skin.

Emulsions are dispersions of oil and water and can refer to microemulsions, nanoemulsions, and Pickering emulsions. Vesicular systems consist of liposomes, phytosomes, transferomes, ethosomes, and niosomes. Liposomes are the most popular vesicular system used in personal care applications and are composed of concentric layers of phospholipid bilayers spherically shaped with a hollow center for the active ingredient. Barba and coworkers developed nanoliposomes containing vitamin D3, vitamin K2, vitamin E, and curcumin for topical delivery [13]. On their own, these ingredients are unstable and do not penetrate into the skin very well.

Lipid particle systems consist of lipid microparticles and lipid nanoparticles. A recent study showed the utility of caffeic acid lipid nanoparticulate systems for applications in skin [14]. Nanoparticles and nanocarriers continue to be at the forefront of skin care research for their potential at stabilizing and delivering antioxidants to the skin. For example, gold nanoparticles are known for their anti-inflammatory, antiaging, and wound healing properties in skin care [15, 16]. Nanoencapsulation is another area that shows promise for the delivery of lipid soluble antioxidants to the skin [17].

Sunscreen Technologies Based on Antioxidants

Exposure of skin to UV radiation can cause direct damage to cellular DNA by crosslinking (UVB) or indirect DNA damage caused by photosensitization reactions (UVA). Photosensitization can occur due to the presence of endogenous (e.g., chromophores in proteins) or exogenous (e.g., UVA sunscreens) species in/on the skin. Almost twenty years ago, Hanson and Clegg demonstrated that sunscreen photoprotection could be enhanced if antioxidants were included in the formula [18]. This has become such an important area of research that the *Journal of Photochemistry and Photobiology* has recently announced that it will dedicate a special issue to the topic of endogenous photosensitizers and their roles in skin photodamage and photoprotection.

The majority of commercial sunscreen formulas contain antioxidants [1]. In part, this is due to the popularity of including botanical ingredients in skin care products. However, the presence of antioxidant species can ameliorate damage caused during and after sun exposure by reactive oxygen species. A recent review by Giacomoni presents this case in relation to the activity of molecules capable of impeding the damaging effects of superoxide anion and singlet oxygen [19].

Concluding Remarks

In the last several years, there has been significant progress in the scientific understanding of antioxidant treatment of the skin. Everly increasing numbers of studies of new ingredients continue to appear in the literature. Hopefully, in the years to come there will be some type of method harmonization across institutes and industry to more uniformly characterize antioxidant behavior from the vast array of botanical ingredients. Many antioxidants are unstable or not easily bioavailable after treatment. To circumvent these challenges, antioxidant delivery systems have been developed and show much promise in the future. Finally, antioxidants play an integral role in sun protection. They are incorporated into sunscreen formulas for their ability to ameliorate damage induced by reactive oxygen species resulting from exposure to UV radiation.

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General Summary

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Major Tasks and Responsibilities

Builds New Sales Territory and Develops New Client Relationships

- Increase profitability of assigned territory by prospecting new customers and adding new business to the portfolio
- Incorporate appropriate sales techniques when cold calling and prospecting new customers, ensuring effective communication of Barentz's brand and market position
- Secure customer meetings (virtual and in person) with purchasing, R&D, and sales & marketing contacts at potential customers
- Submit pre-call plans to Commercial Director, Product Manager, and Sales Coordinator
- Move prospects through the Barentz sales process to secure new business
- Use appropriate techniques to develop an in-depth understanding of customers' businesses, to identify potential needs
- Utilize technical expertise to demonstrate value as part of the selling process.
- Prepare and deliver sales presentations and product demonstrations, where applicable
- Address customer questions, concerns, and inquiries, with timeliness and accuracy
- Log call information in standard format within 48 hours of customer meeting/visit
- Ensure CRM is updated with most accurate contact name, number, and email.
- Participate in weekly one-on-one sessions with Commercial Director to discuss existing opportunities and to move opportunities forward to closure
- Conduct monthly Dashboard review with Commercial Director
- Attend and be involved with local industry associations and events

Maintains and Expands Current Account Portfolio

- Manage all accounts and increase profitability of assigned territory by expanding product sales with existing customers
- Continually seek to diversify product sales portfolio by initiating new projects that use existing Barentz products or require the sourcing of new products
- Develop relationships within active accounts with multiple key contacts
- Secure in-person (or virtual) customer meetings with purchasing, R&D, and sales & marketing contacts
- Submit pre-call plans to Commercial Director, Product Manager and Sales Coordinator
- Keep the sales pipeline up to date with open qualified opportunities
- Move prospects through the Barentz sales process to secure new business at existing accounts
- Research, prepare and deliver sales presentations and product demonstrations, where applicable
- Log call information in standard format within 48 hours of customer visit
- Cultivate customer relations through interactions at social events, tradeshow, and industry functions
- Address customer questions, concerns, and inquiries, with timeliness and accuracy
- Review monthly sales reports to determine any trending with increased or decreased sales by product, and by customer

Research and Market Analysis

- Provide input to marketing/market research on opportunities to exploit product positions
- Become an expert in end-product industry through research and networking
- Use acquired industry knowledge to provide innovative solutions to customers' ingredient and additive needs

Continued on next page

JOB SEARCH

Internal Relationship Management

- Engage in ongoing communication with Commercial Director, Product Manager and Sales Coordinator to ensure customer requirements are met
- Participate in status meetings to discuss key accounts and prioritize activities to maximize territory growth
- Support the internal shared resource teams (accounting, customer service, logistics, operations, marketing), as required

Administration

- Make travel arrangements, while working within policy guidelines
- Complete monthly expense reports as directed by accounting department
- Update eChempax with pertinent information
- Send out credit applications to all new customers
- Send out quotes to new/existing customers and requests samples, as required
- Support and lead by example, Barentz' culture, strategies, pillars, and fundamentals
- Participate in ongoing personal development opportunities
- Perform other duties as requested

Education, Experience, Required Knowledge and Skills

- University or College degree, preferably in Chemistry or another Science.
- Five years of industry sales experience, would be considered an asset
- Proven ability to convert prospects to new business
- Strong organization, interpersonal and presentation skills
- Exhibits good judgment and professionalism when dealing with both customers and internal team members
- Ability to negotiate win-win situations
- Self-motivated, high energy, and engaging level of enthusiasm and positive outlook
- Effective written and verbal communication skills and the ability to adapt communication style to the audience as needed
- Bilingual (French/English) is mandatory
- Act legally and ethically in all professional relationships in adherence with Barentz' values and fundamentals
- Software knowledge of Microsoft Office including Outlook, Word, Excel, PowerPoint, and Teams
- Familiarity with Customer Relationship Management (CRM) software
- Willingness to travel
- Valid Driver's License and evidence of Insurability
- Strong teamwork orientation

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- ◆ April 29th
- ◆ August 26th
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November 4th, 2021 On-Line Webinar		SCC Ontario Chapter Meeting— “New Perspectives on Aging Skin” EMD Performance Materials— Howard Epstein, Ph.D.
November 26th, 2021 The Venetian, Vaughan Ontario		Annual Holiday Dinner Dance 
February 3rd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— “Formulating Dioxane-Free Products” Dennis Abbeduto
March 10th, 2022 The Venetian, Vaughan Ontario		SCC Ontario Annual Regulatory Meeting— TBA
May 26th, 2022 The Venetian, Vaughan Ontario		SCC Ontario Chapter Meeting— TBA
July 2022 Caledon Woods Golf Club		TBA
September 22nd, 2022 The Venetian, Vaughan Ontario		SCC Ontario Education Day— TBA
November 3rd, 2022 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 Zuccoli, Director of Scholarships at dzuccoli@estee.ca. The scholarship applications will be reviewed by the SCC Ontario Chapter Board members. Students awarded a scholarship can also apply for additional support (up to \$1000.00) to cover research and development costs, training and conference expenses.

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing several scholarships. Students of the Seneca School of Biological Science and Applied Chemistry will also be supported with a new award starting in the current school year.

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

NORTHERN HIGHLIGHTS STAFF

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MEMBERSHIP

For those who would like to become members, yearly fees are \$160 US. 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.



Address Changes??

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.