



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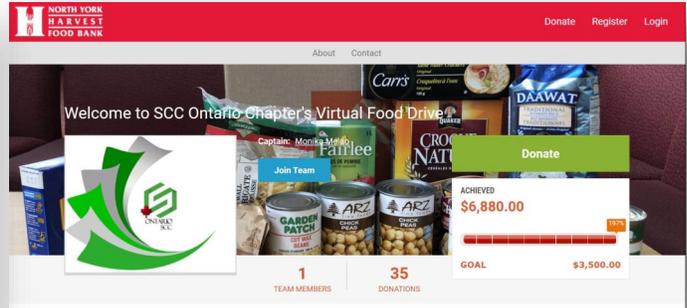
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# SCC Ontario Chapter Holiday Donation Campaign for the North York Harvest Food Bank

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 25<sup>th</sup> 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

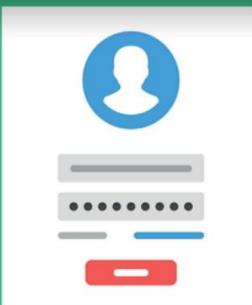
Renewal notices for 2021 were mailed out last year. If you have not done so already please renew your membership as soon as possible Dues fees are US\$155.00.

**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**  
NEWLY REDESIGNED PORTAL

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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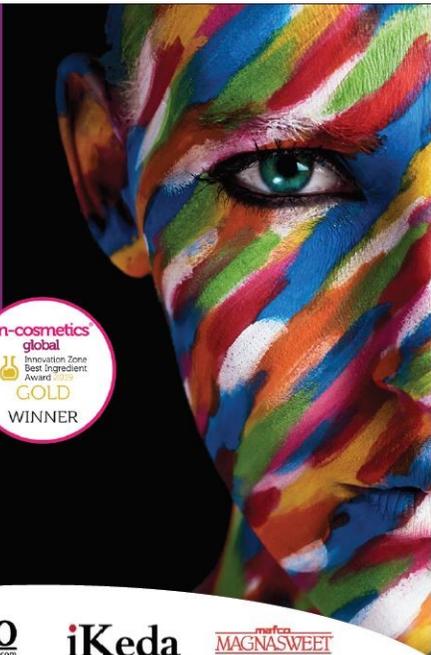


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## 2020 SPEAKER OF THE YEAR AWARD



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.

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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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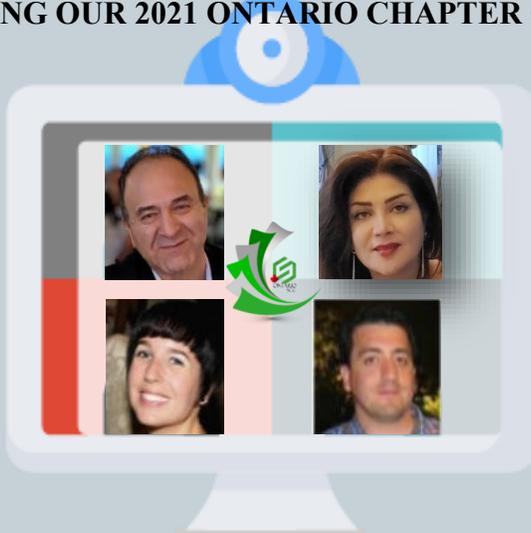
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## INTRODUCING OUR 2021 ONTARIO CHAPTER OFFICERS

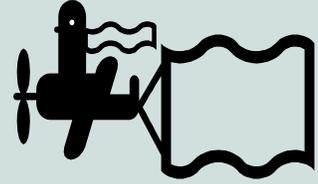


At the start of our final “virtual” meeting for 2020 on November 5th, 2020 we were pleased to have in attendance **Mr Mark Chandler** from SCC National to install our incoming officers for 2021. Mark is the outgoing National Treasurer and incoming Vice President-Elect. Serving as our Chapter Officers 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 CO<sub>2</sub> in the process. The CO<sub>2</sub> 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.

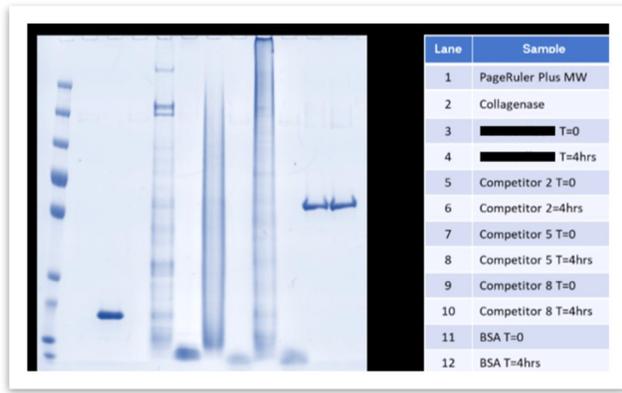
Traditionally, collagen has been extracted from animals such as fish and pigs. In addition to being derived from animals, this collagen is not bioidentical to human collagen and comes with an unpleasant odor. But thanks to the use of biodesign, it is now possible to produce vegan human collagen that 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 CO<sub>2</sub> 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

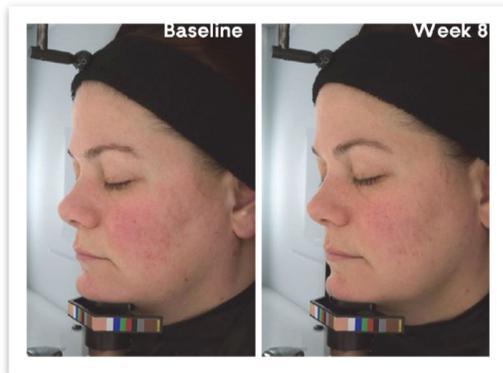
- Water solubility and gelling.



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](http://www.geltor.com)

#### References

[www.livescience.com/collagen.html](http://www.livescience.com/collagen.html)

[www.designdebates.nl/\\_pdf/whatIsBioDesign\\_10-5-12.pdf](http://www.designdebates.nl/_pdf/whatIsBioDesign_10-5-12.pdf)



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## SCC ONTARIO EMAIL REGISTRATION

Interested in receiving periodic emails to keep you up to date on your SCC Ontario Chapter, including newsletter notifications? If so please visit the following link to register your email address;

**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!

*Congratulations!*



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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](mailto: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

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](mailto:dzuccoli@estee.ca). The scholarship applications will be reviewed by the SCC Ontario Chapter Board members. Students awarded a scholarship can also apply for additional support (up to \$1000.00) to cover research and development costs, training and conference expenses.

The Ontario Chapter has supported the Seneca College Cosmetic Science Program and students by providing 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 \$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.