



NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter



October 2021

Volume C

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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

November 4th, 2021

4PM ET

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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.

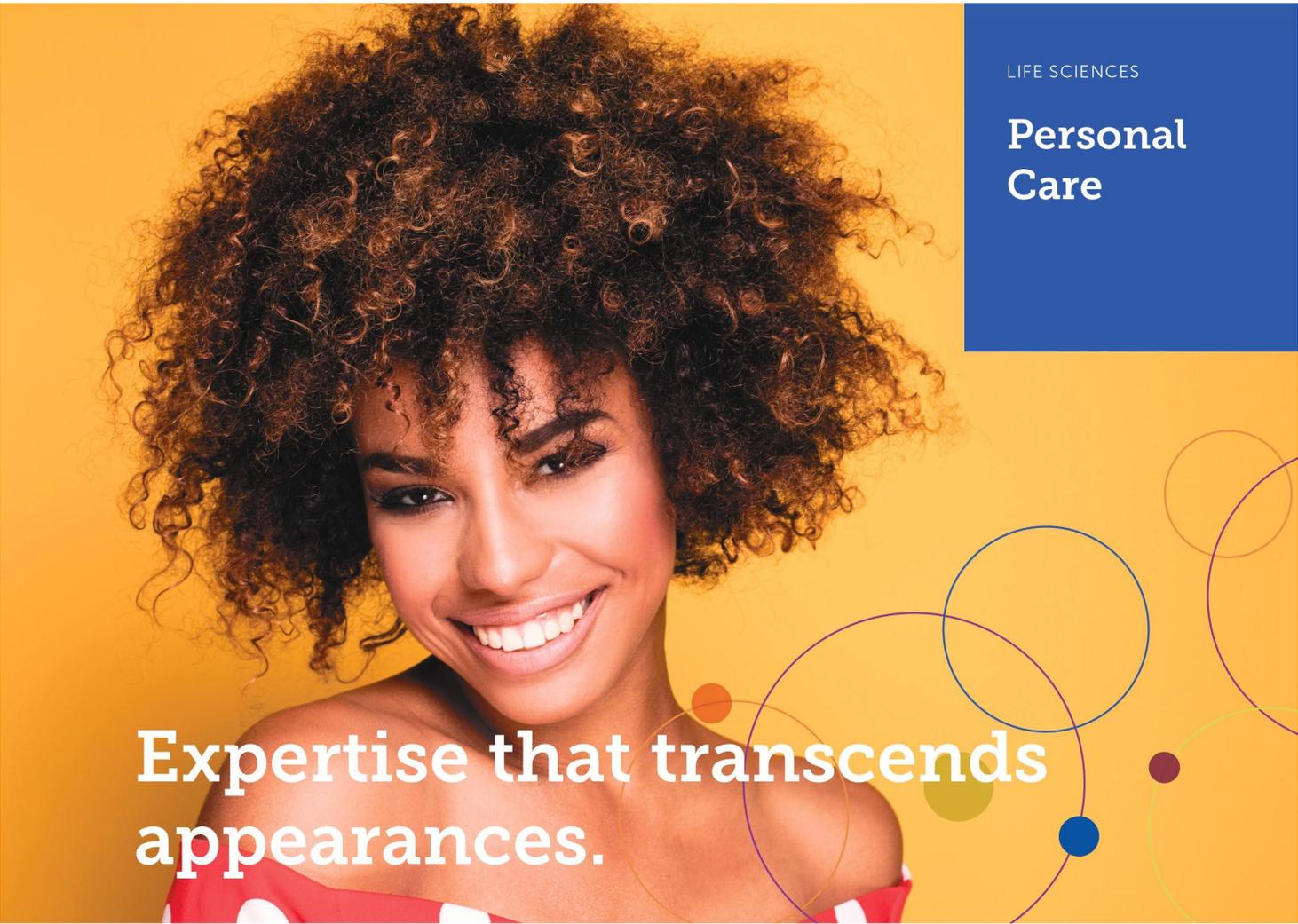
This presentation will discuss photoaging associated with chronic inflammation, UV, IR and blue light-induced photoaging, protein oxidation and why the impact of each may result in a difference of aging skin in various skin types. Understanding the molecular mechanisms associated with the variation of 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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As a member your login is your email address on file and your password is your two initials in CAPS followed by your membership number.

**Members who do not renew by
December 31st will be made
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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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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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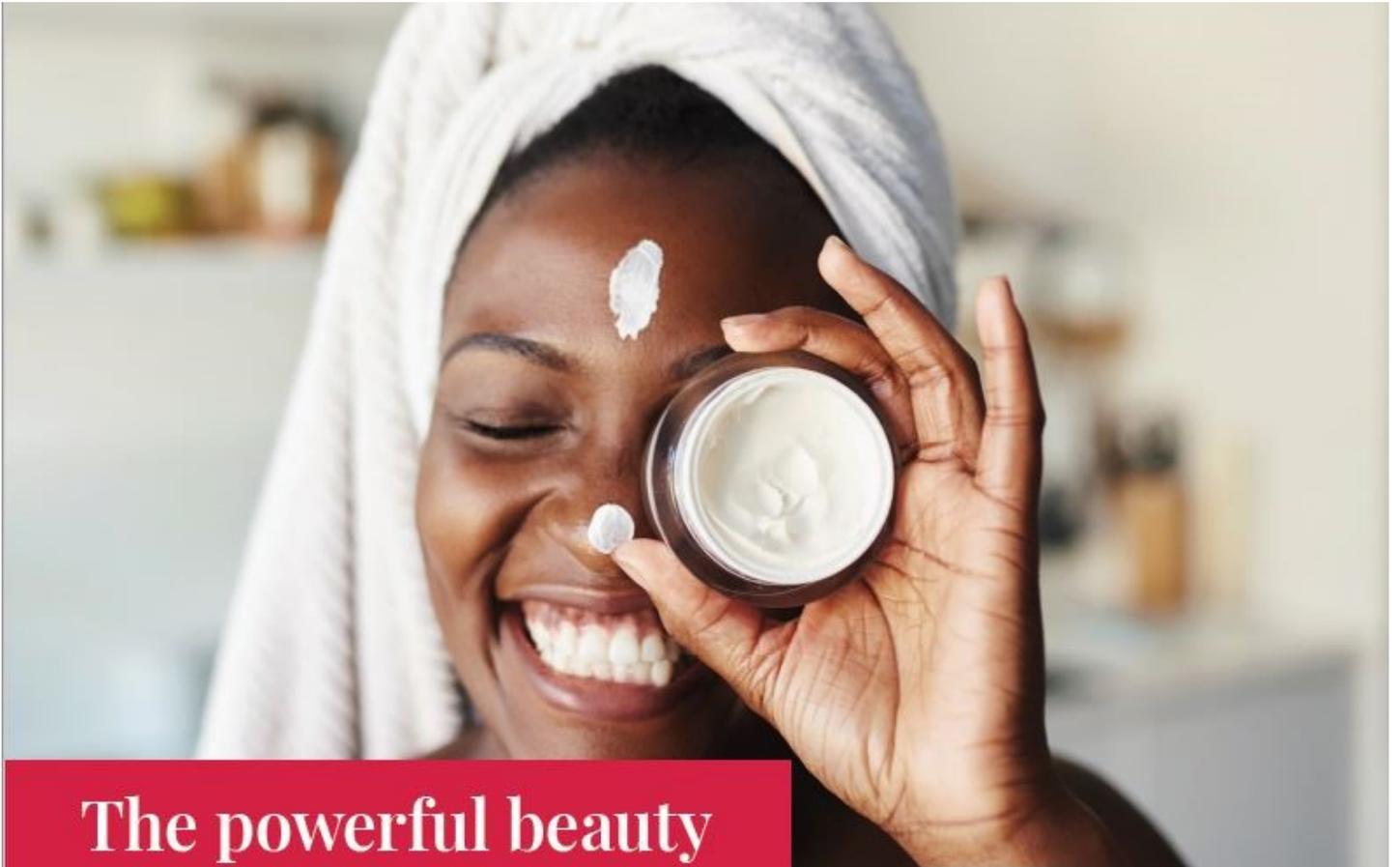
Employment Opportunities

Please check our website for detailed job listings at
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JOB SEARCH

General Summary

The Account Manager is responsible for the profitable and sustainable growth of the assigned sales territory through new client relationships and current account expansion. With an in depth understanding of company products, industry trends and the competitive marketplace, the Account Manager is tasked with identifying and providing innovative solutions to customers' personal care needs.

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

Barentz is a world class supplier of life science ingredients and specialty chemicals focused on improving the quality and length of life. We provide products that help our customers meet their formulary needs and achieve sustainability goals. We strive to change the conversation by creating value for our customers in a diverse range of end markets by providing technical and regulatory support and offering unique and creative solutions.

Our business leverages an infrastructure of industry leading technology, value-add services, global sourcing & logistics network, and a commitment to creating customer success. This philosophy has enabled Barentz to offer its customers and principal partners with North American capabilities while maintaining a local focus. Every day, we strive to deliver fantastic customer experiences.

Barentz offers a competitive salary in addition to a positive and collaborative corporate culture. We believe in developing people as well as growing our business and make this philosophy a priority. Please visit our website at www.barentz-na.com to learn more about us.

If you are interested in joining our team, please forward your resume and cover letter to careers@barentz.ca, Attn: AM – Personal Care

HISTORY OF OUR SOCIETY

Building a community and expanding knowledge for 75 years.

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.



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
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SCC Ontario LinkedIn
Information Source.

Take A Look
Linked in



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>



CALL FOR ADVERTISERS!!



The SCC Ontario Chapter would like to take this opportunity to thank all of our sponsors for the 2021 Newsletters. Now is the time to request advertising for the year 2022. We will be maintaining our rates for 2022. The rates as listed will include a minimum of 5 issues of our newsletter.

All fees will be due by December 31, 2021 and must be received in order to be included in our January 2022 issue.

Since the newsletter is offered in an electronic Adobe format, we prefer colour versions of your ads as they will translate much better and stand out to the reading public.

If you are a new company looking to advertise with us, please submit the registration form found below. Currently we have a waiting list for new advertisers and preference will be given to those currently on the list. When spaces open up you will be notified and given the option to submit your ad.

If throughout the year you would like to replace your ad with a more recent version this can be done at any time. The ad will be changed in the next issue of the newsletter. Newsletter posting dates can be viewed at;

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

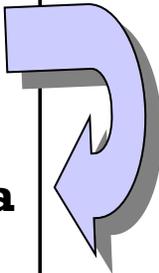
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2 X 3	\$250.00
2 X 4	\$300.00
3 X 3	\$350.00
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8 X 8	\$1200.00

CONTACT

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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— “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 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.

NORTHERN HIGHLIGHTS STAFF

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ADVERTISING:	VERA MATOVINA PLANT POWER	ph: 416-766-1254	vera@plantpower.ca

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.