

# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter

JANUARY 2016

Volume LXXI

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## SCC ONTARIO CHAPTER MEETING

*"Development Benefits of Small Scale  
In-House Testing"*  
- Aki Immonen

**Thursday February 4th, 2016**

### PRE-REGISTER TO SAVE MONEY

If you prefer you can reserve a spot by email or fax. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to FEBRUARY 1st, 2016.

Please note:

Should you register and not attend you will be invoiced the meeting fee.

Students must have their payment in by Monday prior to the meeting. To make your reservation today contact **Rob** at:

[rob.castillo@univarcana.com](mailto:rob.castillo@univarcana.com)

or by fax at (416) 740-2227 OR on-line at:

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

# SCC ONTARIO CHAPTER MEETING

## “Development Benefits of Small Scale In-House Testing”

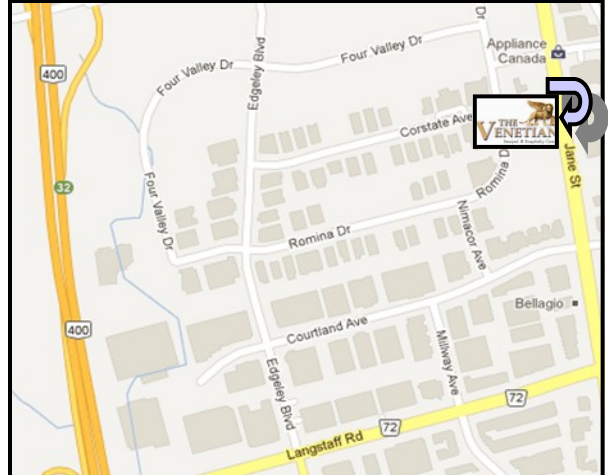
- Aki Immonen

Thursday February 4th, 2016

**Location:** The Venetian Banquet & Hospitality Centre  
219 Romina Drive, City of Vaughan,  
ON, L4K 4V3 (tel: 905-264-9960)

**Time:** 5:00 p.m. Cocktails  
6:00 p.m. Dinner  
7:00 p.m. Presentation  
8:00 p.m. Adjournment

**Fees:** \$45 pre-paid SCC member  
\$55 pre-paid non-member  
\$10 pre-paid student  
\$60 at the door



### Abstract:

Different kinds of measurement instruments can be used to gain objective, scientific data on product efficacy and safety. Detailed measurement results are the basis for presenting professional and assuring product claims for both regulatory and marketing purposes. The use of scientifically validated instrumentation is of great importance. Instruments used in studies should be sensitive and accurate, reliable in terms of repeatability, and practical and easy to use.

The talk will include examples of how some physical skin parameters, such as Transepidermal Water Loss (TEWL), an indicator of skin barrier integrity, and the measurement of tissue water changes in the deeper layers of the skin can be utilized in safety and/or irritation studies relating to the personal care industry. In addition, skin imaging with Optical Coherence Tomography (OCT) will be discussed as well as study design.

### Biography:

Mr. Aki Immonen currently holds the position of Vice President, Marketing and Sales at Delfin Marketing, a leading provider of portable scientific instruments for measuring physical skin parameters and imaging the skin. His role is to develop and execute business development and marketing strategies to meet the needs of the company's target segments. These include the pharmaceutical, chemical, wound care and personal care industries as well as the academic skin research field.

Mr. Immonen has a marketing and sales career spanning over two decades. Prior to joining Delfin in 2004 he has held international management positions in companies including Xerox Corporation and Sonera among others. He holds diplomas in Marketing and Sales Management and in his work he has always emphasized on an approach that is based on realistic market needs and execution through active involvement.

## Scholarship Presentation

We are pleased to welcome back SCC Ontario scholarship candidate Marlena Whiton to our February 4th meeting. She will be completing her scholarship requirements by giving a 10 minute presentation on her research!

### In-Situ Formation of Titanium Dioxide within Silicone Microemulsions to Create Transparent, Nano-structured UV Absorbent Materials

M. Whinton & M. A. Brook, Department of Chemistry & Chemical Biology, McMaster University, Hamilton, ON Canada L8S 4M1, whintom@mcmster.ca, mabrook@mcmaster.ca,

Microemulsions are thermodynamically stable, nanostructured dispersions that consist primarily of oil, water, and surfactant.<sup>1</sup> Hoar and Schulman pioneered the field with their discovery and characterization of hydrocarbon-based microemulsions in 1943. Silicone-based microemulsion technology was introduced in 2001 in a patent by Feng, Hill, and Lin (Dow Corning).<sup>2,3</sup>

Microemulsions have potential applications in a broad range of technical areas including oil recovery, pharmaceuticals, and cosmetics.<sup>1,4</sup> Silicones, in particular, have high biocompatibility and are currently used in biomedical and cosmetic applications.<sup>1,5</sup> Because silicone microemulsions form spontaneously with little or no energy input, they could be particularly advantageous for cosmetic applications.

I will be discussing research conducted during my PhD studies, which focused on the development of silicone microemulsions containing non-volatile silicone oils and the polymerization of these liquids into self-supporting nanostructured elastomers and hydrogels.<sup>1</sup> Surprisingly, certain surfactants allow the very slow growth of titania nanoparticles within these microemulsions (Figure 1) due to raw material interactions between the surfactant and titania precursor. Titania is widely used in sunscreens because it is an excellent UVA and UVB absorber, properties that are then conveyed to the (in the best cases) transparent microemulsions, or crosslinked matrices derived from them. In addition to its photoactive properties, titania particles can act as reinforcing agents in polymerized microemulsions.

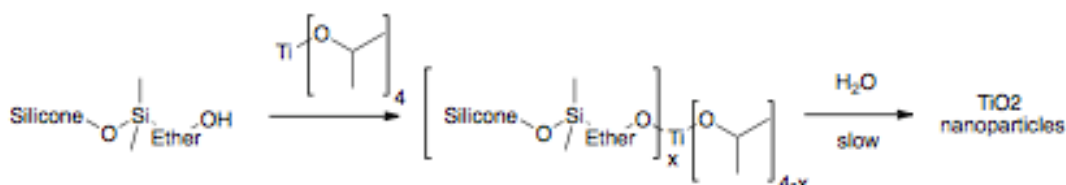


Figure 1: Synthesis of Siloxane PEG-titanium alkoxide compound and hydrolysis to titanium dioxide.

Nanostructured elastomers/hydrogels could be useful towards the delivery of active ingredients, while also offering UV protection. My recent PhD research focused on optimizing the surfactant to permit control of in-situ formation of TiO<sub>2</sub> particles within the silicone microemulsion. The synthesis of the titania precursor was characterized by proton and carbon NMR spectroscopy, while the UV absorption capability of the resulting microemulsion materials was monitored via UV-Vis absorption spectroscopy. The in-situ formed TiO<sub>2</sub> particles were characterized using transmission electron microscopy and it was found that the size of in-situ formed titanium dioxide changed with respect to time and initial microemulsion water content. The ability to monitor the formation and aggregation of TiO<sub>2</sub> particles could allow for the creation of films with targeted UV absorption properties. Polymerization of microemulsions containing TiO<sub>2</sub> to form self-supporting gels will also be discussed.

1. M. A. Brook, M. Whinton, F. Gonzaga, and N. Li, *Chem. Commun.*, 2011, **47**; 8874-8876.
2. T.P. Hoar and J. Schulman, *Nature (London)*, 1943, **152**; 102-103.
3. Q. J. Feng, Z. Lin and R. M. Hill, US Patent 6,998,424 (to Dow Corning), 2006.
4. A. Bera, K. Ojha, T. Kumar, and A. Mandal, *Colloids Surf. A: Physicochem. Eng. Aspects*, 2012, **404**; 70-77.
5. Lopes et al., *J. Pharm. Sci.*, 2010, **77**, No. 3; 1346-1357.





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### Programs and Privileges Of SCC Membership



**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 and its Annual Scientific Seminar each May. 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 seventeen 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.

## Scholarship Candidate Poster Presentation


For our upcoming SCC meeting on February 4th we are pleased to welcome scholarship candidate Katerina Juskey who will be available to answer questions on her poster.

### “An Analysis of Consumer Behaviour Towards Lip Product Claims”

Katerina Juskey graduated with a Master of Science and Technology majoring in Fragrance and Cosmetics from the renowned fragrance school ISIPCA situated in Versailles, France as well as a Master in Business and Management (MBM) from the University of Padua, Italy. Together, the two competencies make up the European and Fragrance Cosmetic Master program, which she completed with 19 other international students in December 2015. As a part of the course design, she was required to fulfil a 6-month internship, which she completed at Estee Lauder in the R&D Anhydrous Lip Group last year in Markham. During the course of the internship, each student was expected to create a final research project that reflects the scientific knowledge and analytical skills the student has acquired. For the project concept, Katerina believed that ultimately, it can be the claims on a product that persuade a consumer to make a purchase and help retain brand trust. With the ever-changing nature of the cosmetics industry and emerging brands, shade and texture selection in lip products is not enough to sustain a brand’s success. She carried out extensive market research on the importance of scientific and sensory claims, especially within the lip category and made recommendations as to how to improve the company’s current claims portfolio. This project was received with great appreciation by the professors from ISIPCA and the University of Padova, whom Katerina presented to in December 2015 before graduating.

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## *A farewell message from the Chair. . . . .*



My term as the Chair of Ontario Chapter for 2015 has come to an end. It feels like a cliché that I am saying this again, but the year has gone by so quickly. With everything that has happened both in this chapter and in the industry it is hard to believe it has only been a year since I took this position.

We had a really busy year. In addition to our 3 regular evening meetings, we also had many additional events. We hosted 2 continuing education courses, in March and in September, both with great attendance. We also hosted an evening meeting at the Seneca at York University. Dr. Joe Schwarcz, Director of McGill University's "Office for Science and Society" spoke at the event. He is well known for his informative and entertaining public lectures on topics ranging from the chemistry of love to the science of aging. We chose Dr. Schwarcz for this talk, as he is always very well received and his talks are very insightful and what better way to introduce potential new cosmetic scientists than to hear a speaker such as him. This meeting was also a networking opportunity for students looking to enter the newly announced Cosmetic Science diploma at Seneca.

And while we spent a lot of time on Education, we also had time to have some fun! We started the summer off with some Golf. We held our annual Golf Tournament with approximately 100 participants. The weather was perfect and everybody had a great time. Our Holiday Dinner Dance was held at the Venetian Banquet Centre. It was the largest ever with 252 guests enjoying the fabulous food, music and wonderful company. We also held our second Toy Drive to benefit the Salvation Army's Toy Mountain. Through the generosity of all of you, we were able to collect over 250 toys to make Christmas a little better for many children. Thank you all for donating!

Starting a new year as Chair is always exciting and you always wonder if it will be a success. This year was a great success and I could not have done it alone. I send 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 out tirelessly throughout the year.

I am passing this job over to Shahin Kalantari (Chair) and Saina Taidi (Chair Elect), who I am certain will do a great job. They can count on my assistance over 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 our chapter.

*Dorothy Maraprossians*  
Past Chair, Ontario Chapter



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## SCC ONTARIO EMAIL REGISTRATION

As you may have heard, new anti-spam laws in Canada came into effect on July 1st of 2014. As such we have had to ask all members and anyone interested in receiving our periodic communiqués from SCC Ontario for permission to be put on our mail list. If you are no longer receiving our emails or want to be included on our circulation list going forward please click on this link below to register;

<http://scontemail.coffeecup.com/forms/scontemailregistration/>

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





# 19th Annual Holiday Dinner Dance November 27th 2015



The Holiday Dinner Dance managed to top itself this year as it was a completely SOLD OUT event this year with 252 people attending ! All were in good cheer as we started the evening with the ever popular Antipasto Table. By popular demand we asked Matt Dean to return again this year and he was a wonderful hit with the crowd. His unique style of DJing and singing kept the crowd moving all night long. The Venetian Banquet Hall and Hospitality Center put together a delicious dinner along with a sweets table that everyone really enjoyed. We would like to give a very special THANK YOU to **MAC** for providing the table favours for the evening as well as the **SCC Ontario Chapter** for donating the special SCC Ontario wine for all!

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 Vivachem Inc.





# Holiday Dinner Dance Toy Drive a Huge Success!!!

The SCC Ontario executive committee is proud to announce that this years 2nd annual "Toy Mountain" toy drive at the Holiday Dinner Dance even more successful than last year!! Over 250 toys were collected from attendees for an extremely worthy cause.



Members of the organizing committee would like to extend their sincerest thanks to ALL guests who were able to bring a gift! Raffle tickets were given to all who participated which were entered into a draw for a grand prize.



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# Rules for Color Selection in Cosmetic and Personal Care Products

by KELLY DOBOS

The incorporation of color in cosmetic and personal care products is part art and part science. What seems like a simple and fun exercise in pigment blending is reliant on a complex set of decisions. The regulatory environment, cost, stability, physical and chemical properties all play a role in determining success. Here are a few rules to help guide the choice of colorants used in formulation.



## Color Selection Rules

- 1. Always Review Color Regulations First** – Be sure to review the regulatory requirements for the areas in which the products will be marketed and sold. Requirements vary by colorant and there can be restrictions on end use application (e.g. restricted from eye area) and percentage.
- 2. Keep in Mind Stability and Formulation Limitations** – Some pigments are fugitive to light and may need a good UV absorber or opaque packaging, others are sensitive to pH or heat. A good product technical data sheet will make note of these limitations. Review in advance to avoid surprises.
- 3. Always Use Multiple Color Additives** – Cosmetic and toiletry products are rarely formulated with a single color additive. There are almost always three of them used and sometimes, considering the use of effect pigments, as many as six or seven. There are two important reasons for use of multiple colorants. First, there are shade differences from batch to batch of the same color additive. So, having more than one of them in a formula allows for adjustments in their ratios to produce a finished product with the exact same shade every time. Second, the use of several different colorants makes copying the product by a competitor much more difficult.
- 4. Avoid Color Extremes** – The use of color additives with extreme differences in shade are normally avoided. Mixing these extremes can result in a dirty appearance in the final shade.
- 5. Try Different Color Combinations When Looking for Cost Efficiencies** – There are big differences in the costs of color additives and there is often more than one combination of them that will result in a particular finished product shade.

*Continued on page 24*



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# Did You Know?

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## Ice Cream & the War

During the Second World War, a psychiatrist concluded that ice cream were an effective treatment for combat fatigue. Ice cream, he said, reminded soldiers of home. In army camps it quickly became a staple at Sunday dinner and the Navy commissioned the first floating ice cream plant, a barge that produced 5100 gallons an hour. But airmen had to improvise. Some of these guys stationed in Britain placed ice cream mix in large cans in the tail gunner's compartment of bombers where the plane's vibrations and cold temperatures yielded a velvety product. According to legend, one of these clever chaps was Irv Robbins. And the rest, as they say, is history.

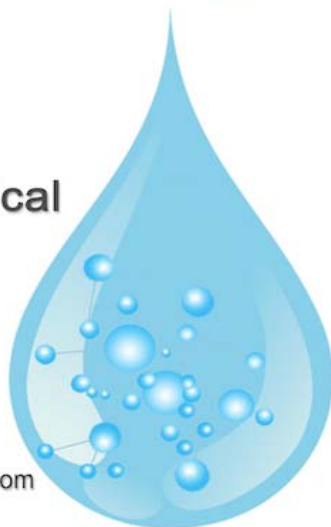
  
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## ATTENDANCE DRAW!!



Last year we added a special feature to our meetings which we are continuing this year. We will be doing an "Attendance Draw" at each meeting. The rules are easy....be a member, attend the meeting and you could win. That's it...simple. A members name will be drawn at each meeting and as long as that lucky member is in attendance they get \$100!!!

## Trivia (answers pg 20)

- How many pores are on the average person's face?
  - 20,000
  - 10,000
  - 200,000
  - 1,000
- What is Elizabeth Arden's real name?
  - Margaret Chelling
  - Florence Graham
  - Beatrice Legend
  - Toni Leogard
- Which was the first major cosmetics manufacturer to announce a permanent end to animal testing in the safety testing of its products?
  - The Body Shop
  - Avon (in 1989)
  - Maybelline
  - Estee Lauder
- Who is the world's largest cosmetic company (2014)?
  - Estee Lauder
  - Proctor & Gamble
  - L'Oreal
  - Unilever
- Which of the following is NOT a Lip Smackers flavour:
  - Coca-Cola
  - Strawberry Milkshake
  - A&W Root Beer
  - Mountain Dew
- Ancient Egyptians made the first makeup out of:
  - Copper and lead
  - Zinc and copper
  - Silver and lead
- What country did nail polish originate?
  - Egypt
  - India
  - China (3000BC)
  - Greece
- Which of the following are NOT on the Health Canada Hotlist:
  - Chlorphenoxamine
  - Chlortalidone
  - Chloroacetamide
  - Chlorphenesin
- What does "CAS" stand for? (as in CAS #):
- Match the company to the slogan:

Maybe She's Born with it	Bonne Bell
The Company for Women	Maybelline
Easy, Breezy, Beautiful	Arbonne
Building brands is our business	Avon
Pure, Safe, Beneficial	Rimmel
Get the London look	Cover Girl

Special thanks to Andrea Boylan for preparing the trivia!!



...to the winning table at our November meeting comprised of Ratan Chaudhuri, Zohreh Fakhim, Bart Maxon, Monia Azarin, Dorothy Maraprossians, Clodagh McCarthy, Rob Quinlan and Maeana Sabah



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registration booth upon  
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with  
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## TRIVIA (see pg 17)

1. a. 20,000                      2. b. Florence Graham                      3.b. Avon (in 1989)
4. c. L'Oreal                      5. d. Mountain Dew                      6. a. Copper and lead
7. c. China (3000BC)                      8. d. Chlorphenesin                      9. Chemical Abstract Service

### 10. Match the company to the slogan:

- |                                 |            |
|---------------------------------|------------|
| Maybe She's Born with it        | Maybelline |
| The Company for Women           | Avon       |
| Easy, Breezy, Beautiful         | Cover Girl |
| Building brands is our business | Bonne Bell |
| Pure, Safe, Beneficial          | Arbonne    |
| Get the London look             | Rimmel     |



# Seneca



**Seneca College** is developing a full time, one year, day time post graduate certificate in Cosmetic Science. We are currently seeking industry experts in the areas of raw materials, formulation and cosmetic regulations to develop curriculum and/or provide instruction. Ideal candidates will have excellent English skills and current expertise in the cosmetic industry. If you are interested, please forward your resume and contact information to;

[paola.battiston@senecacollege.ca](mailto:paola.battiston@senecacollege.ca)





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## JOB SEARCH

### **Pachem Distribution Inc.**

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- ◆ Strong organizational and computer skills
- ◆ Must be self-motivated with good people skills
- ◆ Dedication to customer service/satisfaction
- ◆ Able to work independently
- ◆ Must be able to travel
- ◆ Bilingual an asset

#### Responsibilities:

- ◆ Provide technical support and sales to customers in Ontario and Western Canada
- ◆ Promote products to existing accounts and establish new opportunities
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- ◆ Participate in training as required
- ◆ Maintain and update technical information

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Interested applicants should email their resumes to [gkiss@pachemdistribution.com](mailto:gkiss@pachemdistribution.com)

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Lane Crassoski 514-426-1716

## NEWSLETTER POSTING DATES FOR 2016

Here are the dates for 2016 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 24th
- ◆ March 23rd
- ◆ May 5th
- ◆ September 1st
- ◆ October 13th



(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>

## 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

[ahalasz@rogers.com](mailto:ahalasz@rogers.com)



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*Continued from pg 15*

**6. Oil Absorption is an Important Consideration in Lipstick and Emulsions** – The tendency to absorb oil from a formula varies considerably from color additive to color additive. In general, the synthetic organic colors, particularly the aluminum hydrate lakes, exhibit higher oil absorption than the inorganic colorants. This variation requires the chemist to adjust the percentage of oil from shade to shade in a product line. The variation in oil percentage will insure that the stick hardness in lipsticks will be the same throughout the line. It will also insure equal rheology in other liquid oil products and emulsions.

**7. Dispersion, Dispersion, Dispersion** – I cannot express the importance of dispersion enough. Dispersion is the process of separating colorant agglomerates and distributing them throughout the product. This process is necessary to develop the full tinctorial value from a color additive. Like oil absorption, the ease of dispersion varies from colorant to colorant. For this reason, dispersions of single colorants are easiest to work with.

Article compliments of [chemistscorner.com](http://chemistscorner.com)

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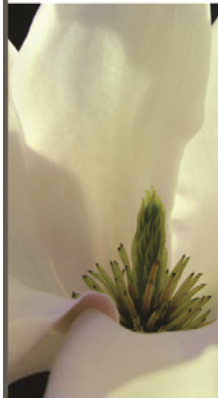
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## UPCOMING EVENTS

February 4th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
April 6th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
May 26th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
July 26th, 2016 Caledon Woods Golf Club, Bolton ON	SCC Ontario 15th Annual Golf Tournament
September 22nd, 2016 The Venetian, Vaughan ON	Education Day
Oct 30th-Nov 2nd, 2016 Walt Disney World Resort, Fla	29th IFSCC Congress
November 3rd, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
November 25th, 2016 The Venetian, Vaughan ON	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 the University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and 14 students have received awards.

Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at [dzuccoli@maccosmetics.com](mailto:dzuccoli@maccosmetics.com). 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.

Successful candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members of the Society, prepare a poster presentation, write an article for the newsletter and make a brief 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 \$140 US. Applications are available from your Executive Committee or on-line at [www.SCCOnline.org](http://www.SCCOnline.org).

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.

# SCC

Dedicated to the Advancement of Cosmetic Science

## 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. We have created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to the National office. Please visit the following website to make your changes;

<http://www.sconline.org>

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# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter

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APRIL 2016

Volume LXXII

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## SCC Ontario Regulatory Update Meeting

WEDNESDAY APRIL 6th, 2016

**FREE FOR SCC MEMBERS (Pre-Registered)**  
**Non-Members \$100 (Pre-Registered)**



### PRE-REGISTER TO SAVE MONEY

If you prefer you can reserve a spot by email or fax. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to APRIL 4th, 2016.

Please note:

Should you register and not attend you will be invoiced the meeting fee.

Students must have their payment in by Monday prior to the meeting. To make your reservation today contact **Rob** at:

[rob.castillo@univarcana.com](mailto:rob.castillo@univarcana.com)

or by fax at (416) 740-2227 OR on-line at:

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

# SCC Ontario Regulatory Update Meeting

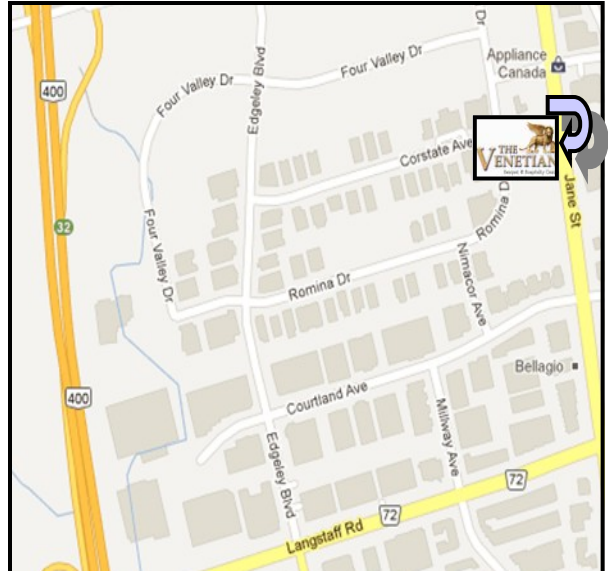
**WEDNESDAY APRIL 6th, 2016**  
**FREE FOR SCC MEMBERS (Pre-Registered)**  
**Non-Members \$100 (Pre-Registered)**

**Location:**           **The Venetian Banquet  
& Hospitality Centre**  
**219 Romina Drive,**  
**City of Vaughan,**  
**ON, L4K 4V3**

**(tel: 905-264-9960)**

**Fees:**               **FREE for SCC Members**  
**(Pre-Registered)**

**Non-Members \$100**  
**(Pre-Registered)**



## AGENDA FOR THE DAY

8:30am - 9:00 am	Registration and continental breakfast
9am – 10:00 am	USA update - Robert Ross-Fichtner, Focal-Point Research.
10:00 am – 10:30 am	Break
10:30 am – 12:00 pm	New Testing Requirements - Craig Weiss
12:00 pm – 1:30 pm	Lunch
1:30 pm – 2:30 pm	Canada update - Teena Warrin
2:30 pm– 3:00 pm	Break
3:00 pm – 4:30 pm	European Update - Michela Pollastri
4:30 pm	Adjourn



**Abstract: USA update - Robert Ross-Fichtner, Focal-Point Research.**

Rob will be covering the House and Senate bills that have been introduced in the United States attempting to provide federal oversight of cosmetic regulation. He will be comparing and contrasting these two bills, and also discussing some of the behind-the-scenes dynamics influencing these two pieces of legislation.

**Bio:**

Rob has more than 35 years of experience in the formulation, manufacturing and regulation of cosmetics, drugs, medical devices and nutritional supplements. He has completed hundreds of regulatory submissions for product registration and approval, and has served as a consultant to companies of all sizes around the world pertaining to their Canadian and US compliance. He has also served as a consultant directly to Health Canada.

Rob has extensive experience inspecting Cosmetic and OTC drug facilities and developing QA programs in Canada, the US and in international locations. He also has many years of experience in Research and Development, including formulation, stability and analytical chemistry, clinical trials and manufacturing. He has served as an expert witness in litigation, and contributes regularly to the development of intellectual property.

Prior to his career at FPR, Rob spent almost 20 years in Management positions at Procter & Gamble, working at research centers in both Canada and the United States. He was involved with all aspects of P&G's new product programs including Formulation, Process Engineering, Packaging, and Regulatory and Government Affairs. For two years Rob worked in P&G's upstream Hair Care Research and Development Department in Cincinnati Ohio and for five years was head of R&D for P&G Canada's Beauty Care Division, responsible for all innovations in Procter's beauty portfolio.

In 2007 Rob was elected to the Board of Directors of the Canadian Cosmetic Toiletry and Fragrance Association, and is a member of their Government Relations Committee. Rob is also a member of the Board of Directors of the US Independent Cosmetic Manufacturers and Distributors (ICMAD) and a member of their Technical/Regulatory Committee. He is also a member of the Personal Care Products Council (PCPC) in the United States a member of the Ontario Chapter of the Society of Cosmetic Chemists. Rob has extensive experience presenting to government regulators and elected officials, and has presented before the Regulatory Cooperation Council (RCC), a bilateral Canadian and US government initiative to harmonize regulations.

Rob completed B.Sc. and M.Sc. degrees in organic chemistry from McMaster University in Hamilton Canada. He has recently been appointed a Professor in the faculty Biological Sciences and Applied Chemistry at Seneca College in Toronto Canada, Rob is the father of two university aged daughters and lives just outside of Toronto, Canada.

**Abstract: New Testing Requirements - Craig Weiss**

Mr. Weiss will be discussing cosmetic claims, industry standards, instrumentation and US regulatory. Additional items that will be discussed include what makes a good study, laboratory and study sponsor's responsibilities.

**Bio:**

Craig Weiss received a B.S. in biology for Monmouth College, prior to arriving at Consumer Product Testing Co. Craig held positions at Del Laboratories, Norwich Eaton Pharmaceuticals (Procter and Gamble) and Roxane Laboratories. Craig began his career with Consumer Product Testing Co., Inc. as the Vice President of Sales and Marketing for the Product Technology Analysis and Control Division. In 1993 Craig became the corporate Vice President of Sales and Marketing and in 1999 he became the President of Consumer Product Testing Co., Inc. Craig is active in many trade organizations and is a member of ICMAD's board of directors, serving as treasurer and is the chairman of its technical, regulatory committee.

**Abstract: Canada update - Teena Warrin**

The presentation will cover the new and existing regulatory challenges facing our industry. Starting with the implications of WHMIS 2015, Teena will provide some tips and tricks for meeting the GHS implementation deadlines. Other topics covered will include: API requirement updates, Chemical Management Plan Compliance and Updates, CEPA Review, In Commerce List Prioritization and useful resources for further assistance.

**Bio:**

Teena Warrin is the Product Safety and Regulatory Affairs Manager at Croda Canada Ltd. With a background in Safety Engineering, Teena joined the chemical distribution industry twenty three years ago. In 2010, Teena was the 13<sup>th</sup> recipient of the Canadian Association of Chemical Distributors President's Award. This award was bestowed in recognition of Teena's many years of service to the industry and particularly for the advocacy role she played in on the Environmental Assessment Working Group (EAWG) and its subcommittees.

Teena remains an active member of the RDC (formerly, CACD) Regulatory Affairs Committee, the CCTFA Environment Committee, and the Formulated Products Industry Coalition.

**Abstract: European Update - Michela Pollastri**

European Cosmetic Regulation 1223/2009 - Main requirements:

- A safety assessment of the finished cosmetic product must be performed before the product can be placed on the EU market;
- A full technical file or product information file (PIF) for a cosmetic product must be kept available for inspection by authorities at a specified EU address ("Responsible Person").
- Notification must be done to inform the competent authorities that a cosmetic product will be placed on the EU market (pre-market notification);
- Claims for cosmetic products, whether explicit or implicit, shall be supported by adequate and verifiable evidence – "Common Criteria"
- The use of validated replacement alternative methods instead of animal testing
- ◆ Article 23 : Cosmetovigilance and post market surveillance. Notification of SUE by the Responsible Person or Distributor and follow-up on SUE notifications by Competent Authorities, Responsible Persons or Distributors.

**Bio:**

Michela Pollastri is a chemist with a specialization in Cosmetic Science. She has an experience of more than twelve years in the field of Cosmetics.

She has been working as a formulator, regulatory affairs manager and as a safety assessor in a Cosmetic manufacture company and then, in a Cosmetic R&D Laboratory in Milan, Italy.

She also taught "Cosmetic Formulation and Regulation" at the University of Camerino, Italy for the Master's level for more than 4 years.

She is now the Chief Operating Officer of the Canadian branch Abich Inc. in Montreal (*in vivo* and *in vitro* testing laboratory) where she collaborates in many different projects.

## *A welcome from the Chair.....*

Looking out ahead on the year we have planned for the SCC Ontario Chapter members in 2016 I am very proud to serve as chair and am looking forward to continuing the great work of the board members in previous years!



We have planned three evening meetings which are quite diverse in topics. These include “Imaging, skin measurements and its impact in cosmetic sciences” which was already held in February, to “Molecular Biology” for our May meeting as well as “Waste water management” scheduled for November 10th.

We also have a full day regulatory update meeting in April 6 covering the Canadian, US and European regulations and another full day seminar in September 22nd at our yearly Education Day. The topic for the day will “Biology of skin aging and nutrition” by Mr. Vanya Loroach, who is travelling from Europe for this event.

As for social events, our annual golf tournament, has been scheduled July 26th, and is a great way for the members to interact in a relaxing social setting. The Holiday Dinner Dance in late November will offer as usual great food, great fun, which helps to jump-start the festive season.

I am certain that 2016 will be another great year for our chapter!

*Shahin Kasantari*

Chair, Ontario Chapter



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# NEXTGEN TO BRIDGE THE GAP ACROSS PROFESSIONAL LEVELS


Last year the society introduced a critical initiative, SCC NextGen, that will offer the necessary skills and training needed for career advancement. NextGen was designed to help young professionals (*with less than 5 years of industry experience*) and students further their education, so that they may attain successful and rewarding careers. NextGen will provide registrants with the confidence to enter the workforce knowing that their education and training are aligned with workforce needs and that they have the support of fellow colleagues.




The society plans to accomplish this mission by...

1. Presenting critical Education tracks at meetings and events (eg. Critical Thinking & Innovation, Basic Cosmetic Science, Introduction to Polymer Science and Its Applications).
2. Networking at national meetings and events.
3. Coordinating small group projects where Mentees and Mentors engage in a technical area of shared interest. The goal for the Mentee is to present a paper or organize a workshop in the second year of program.
4. Collaborating with universities to supplement the education of their students. All colleges/universities participating in the NextGen program are eligible to provide students with their first year of membership for free.

Please contact the SCC National office at [scc@scconline.org](mailto:scc@scconline.org) or call (212) 668-1500 for more information on how you or your university can get involved. All are welcome and encouraged to join!



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# Trivia (answers pg 21)

1. Complete the sequences

deca, hecto, kilo, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

1, 2, 3, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

deci, centi, milli, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

-1, -2, -3, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

2. Match the following:

1	String		Starlings
2	Ostentation		Cattle
3	Smack		Ravens
4	Pitying		Fish
5	Crash		Hérons
6	Unkindness		Rhinoceroses
7	Murmuration		Apes
8	Drove		Seals
9	Pod		ponies
10	Murder		Doves
11	Knot		Hens
12	Colony		Crows
13	Siege		Peacocks
14	School		Flies
15	Shrewdness		Toads
16	Brood		Jellyfish
17	Grist		Ants

*Continued on next page....*



3. What's special about these sets of letters: SA - DK - XLNC - NV - NME - FND - XPDNC?
4. To ensure a fair division between two people (for dividing chocolate bars between children for instance) you might use the 'one cuts, the other chooses' method. How do you ensure a fair division between three people?
5. A part of a wheel is a SPOKE, another word for people is FOLK, so how do you spell the word for the white of an egg?
6. Can a man marry his widow's half-sister?
7. There are five 'f's in the next sentence, and they're two errors in this one. - "It's often easy for folk to miss the finer points of life." - How many errors are there in the first sentence?
8. Odd letter out: ABCMNOTUV
9. Scientist Dr Alexander Graham Bell, inventor of the telephone, had what well known unit of measurement was named after him?
10. Catholic bishops are allowed seven of them, priests five, and ordinary people one; what are they?
11. What's the only 3 words in the English language having three consecutive double letters?
12. Words which without changing the spelling or sound have two opposite meanings – Example Left (gone) and Left (remaining). How many more can you name. (also include meaning)



....to the winning table at our February meeting comprised of Janice Cukier, Kashif Mazhar, Arvin Valenciano, Sohail Munshi, Ilyas Ghazi, Gabriella Kiss, Phil Hudson and Cendy Wang.



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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# The Importance of UV Protection Ingredients in Cosmetics Formulations

by PERRY ROMANOWSKI

There was a time when having tanned skin and laying out in the sun's rays was considered healthy. However, the dangers of UV rays are becoming more apparent as cases of melanoma have risen dramatically over the past three decades. These sobering statistics have prompted people to avoid the sun's rays and use UV-blocking skin lotion. While this may lower the risk of developing skin cancer, what many people do not consider is that the skin on their face is constantly vulnerable to UV damage as they go about their daily activities, even if they wear makeup. As such, today's cosmetic products should be formulated with UV protection, no matter if they are meant to cover blemishes or balance the complexion.

## **How UV Protection Works**

Understanding of how UV protection works to guard the skin against damage and dangerous growths that may develop into melanoma is paramount to creating effective formulations. UV rays contain molecules called free radicals, which are highly unstable and unbalanced. When free radicals invade unprotected skin, they begin to scavenge missing elements from healthy skin cells. As a result, functioning cells begin to behave abnormally and are eventually destroyed. Free radicals also destroy collagen and elastin, the two proteins in the skin that keep it firm and elastic. When many free radicals enter unprotected skin, wrinkles, dark spots, and other signs of premature aging begin to appear. Eventually, some damaged cells begin to mutate, which can lead to melanoma. UV protection blocks free radicals from entering the skin by reflecting the sun's rays and protecting healthy cells.

## **Choosing a UV Protection Level**

UV protection should be an element of any cosmetic formulation; however, not all ratings are equal and some are not even sufficient enough to properly protect the skin. Some existing foundations, BB creams, and lotions currently include SPF 15 protection. However, many dermatologists assert that this is not enough, especially for those who spend a great deal of time exposed to the sun's rays. While research shows that SPF 15 may be strong enough if applied in thick layers, it is not suitable as a cosmetics additive due to how most foundations and creams are applied. To create cosmetics formulations that protect the skin from the sun, SPF 30 or more should be included.

*Continued on pg 17*

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## SCC ONTARIO EMAIL REGISTRATION

As you may have heard, anti-spam laws in Canada went into effect on July 1st of 2014. As such we have had to ask all members and anyone interested in receiving our periodic communiqués from SCC Ontario for permission to be put on our mail list. If you are no longer receiving our emails or want to be included on our circulation list going forward please click on this link below to register;

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## Did You Know?

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### Ear Candles

Ear candles are regularly promoted by alternative health suppliers and have been getting quite the hype from the media even though there is no evidence to suggest they have any real benefit. The idea behind the "treatment" is that one of these special wax candles is inserted into the ear and then lit. This produces cleaning vapours that penetrate the inner ear and remove impurities and wax, drawing them out by the suction that is allegedly created by lighting the candle. Supporters of the practice claim that it clearly works, since when you open up the remains of the candle it contains a waxy substance reminiscent of the earwax that we find in our ears.

  
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## ATTENDANCE DRAW!!



Last year we added a special feature to our meetings which we are continuing this year. We will be doing an "Attendance Draw" at each meeting. The rules are easy....be a member, attend the meeting and you could win. That's it...simple. A members name will be drawn at each meeting and as long as that lucky member is in attendance they get \$100!!!

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## **Natural UV Ingredients**

A large percentage of cosmetics consumers today are concerned about applying ingredients to their skin that may prove harmful in the long run. As a result, today's cosmetics' formulations should include natural UV solutions that consumers will feel confident about using. Breakthroughs in natural UV protection are being introduced all the time and some of the most recent discoveries include:

*Propolis*, which is a natural sealing element made from bee pollen

Elements from the *alder buckthorn tree*, which is native to the UK, Asia, and Africa

*Buriti oil*, which is extracted from the moriche palm of South Africa

In order to keep formulations safe, formulators should carefully consider how these elements might react with other ingredients before using them.

## **Other Natural UV Alternatives**

Other natural UV ingredients proven to offer limited UV protection include vanilla extract, raspberry, and aloe vera. All of these ingredients are a viable alternative to the usual standbys of titanium dioxide and zinc oxide; however, it is important that each of their individual strengths and longevity be considered, especially when creating long-lasting cosmetics like foundation. Today's makeup users require that their cosmetics last throughout the day with little need to reapply, and this should include the ingredients included for UV protection.

## **Providing Different Levels of UV Protection**

Creating a variety of cosmetics products that provide UV protection is necessary in order to serve a more diverse range of consumers. After all, no two individuals have the same skin type and may require more or less protection depending on where they live, how often they are exposed to the sun, their complexion, and whether they have any existing skin conditions that makes applying cosmetics a challenge. For example, an individual living in the UK may only need foundation with SPF 15 as opposed to someone living in El Paso, TX where the sun is particularly powerful many months out of the year and who may need cosmetics with an SPF of thirty or more.

The necessity of creating diverse formulations should be considered an industry standard as experts in bioscience, such as Bruce Eaton, consistently create new patents in the field in order to offer products to a wider range of individuals. Not only does this improve consumer happiness, it gives formulators the chance to come up with new and unique ways to use UV ingredients as they create effective products.

## **UV Protection Should Be for Everyone**

No matter which UV-blocking ingredients cosmetics formulators choose to include in their products, each formulation should include at least some level of protection. Not only will cosmetics with UV protection lower the risk of melanoma, they will also prevent the formation of wrinkles and age spots. As a result, consumers will need less coverage and be able to stretch their cosmetics budget and keep them loyal to a formulator's product.





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## Programs and Privileges Of SCC Membership



**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 and its Annual Scientific Seminar each May. 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 seventeen 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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A photograph of a woman's face with her hair styled. The hair is highlighted with bright, glowing orange and yellow streaks, suggesting a hair care product. The background is dark with some light effects.

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A graphic design for Rossow. It features a large, stylized orange ampersand (&) on the left. To the right, the text reads: "PRODUCTS & SERVICES", "ROSSOW", "RESOURCES TO FORMULATE YOUR FUTURE". At the bottom, there is contact information.

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## **TRIVIA answers** (see pg 8)

1. They are the metric prefixes: deca, hecto, kilo, mega, giga, tera, peta, exa, respectively ten to the power of 1, 2, 3, 6, 9, 12, 15 and 18. The minus scale is deci, centi, milli, micro, nano, pico, femto, atto.
2.
  - string of ponies
  - ostentation of peacocks
  - smack of jellyfish
  - pitying of doves
  - crash of rhinosceroses
  - unkindness of ravens
  - murmuration of starlings
  - drove of cattle
  - pod of seals
  - murder of crows
  - knot of toads
  - colony of ants
  - grist of flies
  - brood of hens
  - shrewdness of apes
  - school of fish
  - siege of herons
3. Spoken aloud they all make words: essay, decay, excellency, envy, enemy, effendi (effendi is a man of education or standing in the Arab world), and expediency, which is the longest word that can be represented in this way.
4. The first cuts into three, the second selects a portion for the cutter, the third person selects a portion for him/herself, and the second person left with the remaining portion.
5. Not yoke or yolk - the white of an egg is called the albumen.
- 6.. No - if he had a widow he'd be dead.
7. There are four mistakes in the first sentence - they are: there are six 'f's not five; 'sentence' is spelt wrong; 'they're' should be 'there are'; and the statement that there are two mistakes is wrong, which makes four mistakes in all.
8. - N has no line of symmetry. The others do. And an alternative recently suggested by a visitor Max Bracher: "v" is the only letter without a curve when written in "Lower Case".

*continued on next page....*

9. The bel, from which: the decibel (a decibel is one tenth of a bel). The bel or decibel is actually a measurement of relationship between two values of power - it is not a constant unit like a metre or a pound or a volt. When we see noise levels shown in decibels, the noise (power) is normally shown relative to a nominal zero (0dB) which is based on the quietest sound perceivable by the human ear - the threshold of hearing. A bel is a power ratio (relationship measurement) of ten times. The decibel is more widely used simply because it enables measurements in smaller increments. In decibels, here are some values of different noises: normal breathing 10dB, toilet flushing 80dB, chain saw or rock concert 120dB, shotgun 170dB. Amazingly a baby crying is 110dB.

10. Crosses on a tomb.

11. Subbookkeeper. (bookkeeper, bookkeeping and tattooee are the only words having three consecutive double letters.)

12.

- Cap (limit or stop) and Cap (add to or increase)
- Outstanding (satisfactory - standard exceeded) and Outstanding (unsatisfactory - standard not met). (Thanks J Molloy)
- Oversight (check, monitor) and Oversight (neglect, forget)
- Weather (endure - stand test of time or resist storm or pressure) and Weather (erode - wear down or denude). (Thanks L Bell - thanks also for pointing me towards the antonym term)
- Clip (join two or more things together as with a paper-clip) and Clip (divide something into two or more pieces, as in clip an article from the paper or clip someone's hair).
- Dust (remove a layer of powdery substance) and Dust (apply a layer of powdery substance, as in dusting crops or dusting for finger-prints).
- Trim (add to or embellish, as in trim the Christmas tree) and Trim (cut away something, as in trim someone's hair or a hedge).
- Cleave (split apart or break) and Cleave (stick or adhere). (See the explanation under cliches origins for more detail.)
- Ravish (to violently abuse) and Ravish (to delight)
- Fast (quick) and Fast (stuck tight)
- Sanction (a permission) and Sanction (a preventative penalty)
- Sanguine (cheerful) and Sanguine (bloodthirsty)
- Bolt (fixed, secure in place) and Bolt (move fast, run away).
- Garnish (add to - embellish or decorate) Garnish (remove from - as in legally serving notice to seize money or assets). (Acknowledgements to P Merison, G Comstock, C Klahn, and Bill Bryson's book Mother Tongue.)
- Bound (fixed) and Bound (moving, as in travelling).
- Left (gone) and Left (remaining).
- Mad (angry about) and Mad (attracted to).
- Livid (angry) and Livid (pallid - lacking colour and spirit). (Thanks L Prinos)
- Wind-up (start something, like a clock or an argument) and Wind-up (finish something, like proceedings or a talk). (Arguably not a single word and so technically not a proper contronym)
- Blow up (inflate - create - a balloon) and Blow up (destroy with explosives) (Definitely not a single word and so technically not a proper contronym, but an interesting one nevertheless.)



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## NEWSLETTER POSTING DATES FOR 2016

Here are the dates for 2016 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 24th
- ◆ April 4th
- ◆ May 5th
- ◆ September 1st
- ◆ October 13th



(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>

## 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.

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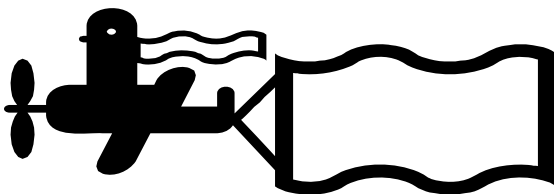
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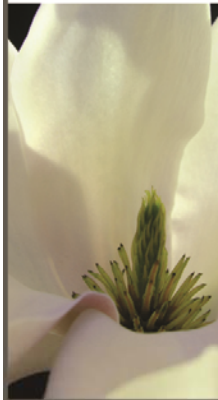
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## UPCOMING EVENTS

April 6th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— SCC Ontario Regulatory Update Meeting
May 26th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
July 26th, 2016 Caledon Woods Golf Club, Bolton ON	SCC Ontario 15th Annual Golf Tournament
September 22nd, 2016 The Venetian, Vaughan ON	Education Day
Oct 30th-Nov 2nd, 2016 Walt Disney World Resort, Fla	29th IFSCC Congress
November 10th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—TBA
November 25th, 2016 The Venetian, Vaughan ON	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 the University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and 14 students have received awards.

Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at [dzuccoli@maccosmetics.com](mailto:dzuccoli@maccosmetics.com). 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.

Successful candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members of the Society, prepare a poster presentation, write an article for the newsletter and make a brief 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 \$140 US. Applications are available from your Executive Committee or on-line at [www.SCCOnline.org](http://www.SCCOnline.org).

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.

# SCC

Dedicated to the Advancement of Cosmetic Science

## 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. We have created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to the National office. Please visit the following website to make your changes;

<http://www.sconline.org>

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[crodapersonalcare.com](http://crodapersonalcare.com)

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## The SCC Ontario Chapter's Newsletter

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MAY 2016

Volume LXXIII

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## SCC ONTARIO CHAPTER MEETING

*"Biotechnology and Cosmetics"*

- Saina Taidi

**Thursday May 26th, 2016**

### PRE-REGISTER TO SAVE MONEY

If you prefer you can reserve a spot by email or fax. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to MAY 23rd, 2016.

Please note:

Should you register and not attend you will be invoiced the meeting fee.

Students must have their payment in by Monday prior to the meeting. To make your reservation today contact **Rob** at:

[rob.castillo@univarcana.com](mailto:rob.castillo@univarcana.com)

or by fax at (416) 740-2227 OR on-line at:

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



# SCC ONTARIO CHAPTER MEETING

## *“Biotechnology and Cosmetics”*

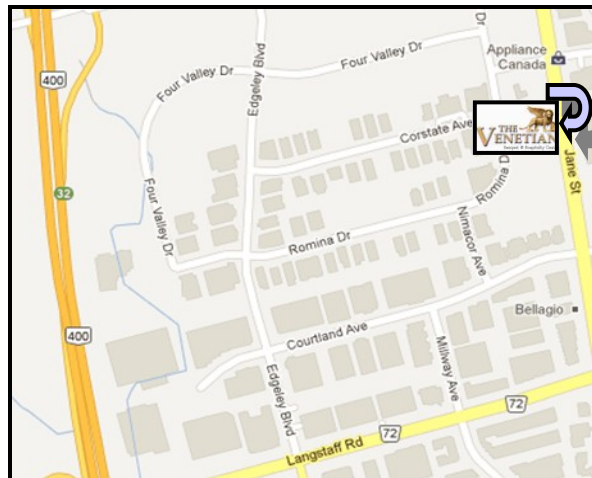
- Saina Taidi

**Thursday May 26th, 2016**

**Location:** The Venetian Banquet & Hospitality Centre  
219 Romina Drive, City of Vaughan,  
ON, L4K 4V3 (tel: 905-264-9960)

**Time:** 5:00 p.m. Cocktails  
6:00 p.m. Dinner  
7:00 p.m. Presentation  
8:00 p.m. Adjournment

**Fees:** \$45 pre-paid SCC member  
\$55 pre-paid non-member  
\$10 pre-paid student  
\$60 at the door



## **Abstract**

### **Biotechnology and Cosmetics**

What is a “good” bio-functional active? How are biotech based actives used in cosmetics measured? How realistic is the molecular biology data and to what extend can we rely on them for beauty claims? This talk will discuss in detail some commonly used biotechnology techniques and tools that could be used in the cosmetic sciences area of knowledge and also address challenges in getting the right information from numerous available studies in biotech sector for cosmetic related businesses.

### **Bio**

Saina has graduated from University of Guelph with MSc. in Biotechnology (Molecular Evolution) and received her second Masters in Business from York University. She has since worked in both Pharmaceutical and Cosmetic industry in both technical sales position and as a researcher. Saina has had the privilege of being a board member of SCC Ontario chapter for the past year and is the SCC Ontario Chair Elect for 2017. As a biotechnology researcher and marketing professional, Saina is currently holding the Technical Application Manager position at Apollo Health and Beauty Care.



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# NEXTGEN TO BRIDGE THE GAP ACROSS PROFESSIONAL LEVELS


Last year the society introduced a critical initiative, SCC NextGen, that will offer the necessary skills and training needed for career advancement. NextGen was designed to help young professionals (*with less than 5 years of industry experience*) and students further their education, so that they may attain successful and rewarding careers. NextGen will provide registrants with the confidence to enter the workforce knowing that their education and training are aligned with workforce needs and that they have the support of fellow colleagues.




The society plans to accomplish this mission by...

1. Presenting critical Education tracks at meetings and events (eg. Critical Thinking & Innovation, Basic Cosmetic Science, Introduction to Polymer Science and Its Applications).
2. Networking at national meetings and events.
3. Coordinating small group projects where Mentees and Mentors engage in a technical area of shared interest. The goal for the Mentee is to present a paper or organize a workshop in the second year of program.
4. Collaborating with universities to supplement the education of their students. All colleges/universities participating in the NextGen program are eligible to provide students with their first year of membership for free.

Please contact the SCC National office at [scc@scconline.org](mailto:scc@scconline.org) or call (212) 668-1500 for more information on how you or your university can get involved. All are welcome and encouraged to join!



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## SCC Ontario Regulatory Update Meeting

On Wednesday April 6th the SCC Ontario Chapter was pleased to host a day long regulatory update meeting for its member. The meeting was offered for free to SCC members. The topics were diverse covering many facets of today's ever changing world of regulations. We started the day with a USA update given by Robert Ross-Fichtner of Focal-Point Research. Craig Weiss of Consumer Product Testing Co covered "New Testing Requirements". Following Lunch Teena Warrin from Croda gave us a detailed Canadian update. Finishing off the day Michela Pollastri of Abich Inc. in Montreal gave a European update. Many thanks to all for attending and to the speakers for making the day such a success!



Download all the presentations from the day at <http://www.ontarioscc.org/presentations.htm>

**SCC**

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.

Download an application: [http://www.sconline.org/website/about\\_scc/member\\_application.htm](http://www.sconline.org/website/about_scc/member_application.htm)



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# JOB SEARCH

## **Position: QA/QC Manager**

### **Responsibilities and Duties:**

- ◆ Direct and lead the QA/QC Department to perform routine chemical and physical testing of cosmetics and pharmaceutical materials/ingredients, and finished products;
- ◆ Ensure all analytical results and documentations are generated of high quality in a timely fashion;
- ◆ Participate in Analytical Investigations of OOS (out-of-specification), examine results, change control requests when necessary, generate deviation reports and root cause determination and provide recommendation for corrective actions;
- ◆ Identify and Develop continuous improvement initiatives and ensure implementation, follow up and closure of Corrective and Preventative Actions (CAPA's);
- ◆ Participation to ensure corporate compliance with GMP regulations as required by Health Canada, the US FDA or other jurisdiction with a focus in maintaining GMP Establishment License (or other legal licences);
- ◆ As required, provide assistance with Internal GMP and 3rd party Audit; Manage and execute Quality Management System Internal Audit program;
- ◆ Review, and when required as a backup, approve certificates of analysis, stability summary reports, calibration reports, analytical monographs, master batch records and packaging records in compliance with legal regulatory and customer requirements;
- ◆ As required, develop and update policies and SOPs related to GMP regulations;
- ◆ Provide assistance and technical support for equipment or process optimization, validation, calibration;
- ◆ Demonstrated time management and project organizational skills;
- ◆ Provide GMP trainings and
- ◆ Participate in other tasks that may be assigned by the President when required.

### **Qualifications:**

- ◆ University degree in an applicable discipline of science (chemistry, biochemistry or related) • Three or more years in a Quality Assurance, Quality Control role in the pharmaceutical, cosmetics or related industry; • Advanced knowledge of GMP and FDA regulations for manufacturing required; • Strong organizational and prioritization skills with attention to detail;
- ◆ Strong interpersonal, communication and demonstration negotiation skills.
- ◆ Proven ability to interact effectively with government officials;
- ◆ Ability to work independently and within a team;
- ◆ Proven ability to supervise personnel and excellent verbal/written, communication skills;
- ◆ Ability to deliver results in fast paced environment.
- ◆ Ability to create validation protocols and also regulatory knowledge are considered as privilege.

**Contact Hamid Reza Vanaki [h.vanaki@inter-cosmetiques.ca](mailto:h.vanaki@inter-cosmetiques.ca)**

**Job Title:** Innovations Director (Chemist)  
**Reporting to:** President  
**NOC Code:** 2112  
**# of Openings:** 1  
**Type of Position:** Temporary, Full-time  
**Term:** Two years  
**Salary:** \$80,000.00 per year of which \$77,000.00 paid in regular salary disbursements and \$3,000.00 as a guaranteed bonus upon 1 year of service, for 35 hours per week  
**Employer:** Deciem Inc.  
**Business Address:** 517 Richmond St East, Toronto, ON M5A 1R4  
**Work Location:** 517 Richmond St East, Toronto, ON M5A 1R4  
**Contact:** hr@deciem.com

**Job Summary:**

Deciem Inc. is a Toronto-based branding company specializing in creating brands across industries. The company stays directly involved in marketing and sales of the brands it manages for the clients until the brands can stand on their own feet. The brands target diverse industries including beauty, nutrition, technology and apparel.

The position of Innovations Director (Chemist) involves conducting research and analysis, developing products and operation processes and ensuing quality control.

**Duties and responsibilities may include some or all of the following:**

- ◆ Conduct research to discover, develop, refine and evaluate new products based on marketing data.
- ◆ Conduct patent searches to determine freedom to operate with a new formulation
- ◆ Support the progress of projects through the technology transfer process by providing technical summaries at key stages during the project as requested.
- ◆ Develop chemical experiments and analyze chemical compounds;
- ◆ Develop work plans and schedules to meet performance objectives.
- ◆ Test, compare, analyze tests, and review test results in alignment with the project goals,
- ◆ Identify complex problems, causes of chemical variances and recommend solutions to achieve goals.
- ◆ Develop prototype products for use by focus groups or in clinical trials.
- ◆ Conduct studies on long-term chemical stability of products.
- ◆ Participate in interdisciplinary research and development projects with Deciem’s biochemists, biologists, technicians, and professional product testers.
- ◆ Assist with scale-up form development to production quantities, in collaboration with chemical technicians and plant production personnel.
- ◆ Supervise, research other chemists, chemical technicians and technologists.
- ◆ Lead product innovation team;

**Qualifications:**

- ◆ 2 or more years of related experience
- ◆ A bachelor degree

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# SOCIETY OF COSMETIC CHEMISTS ONTARIO CHAPTER SCC

c/o 64 Arrow Rd. Weston ON, M9M 2L9

## SCC 16th Annual Golf Tournament

Tuesday July 26, 2016

**Location:** Caledon Woods Golf Club (6 km north of Bolton)

**Time:** 1:00 pm Shotgun start.

**Fee:** \$190 Golf & Dinner Package  
 \$125 Golf & Lunch  
 \$ 80 Dinner-only



**Fees include:**

**Itinerary :**

18-hole green fees with carts	11:00– 12:30 Registration & Lunch
Professional tournament scoring	1:00 PM Golf - Shotgun start
BBQ lunch	5:30 PM Cocktails
Dinner	6:30 PM Dinner, & Prize Presentation
Use of practice green, locker and shower facilities	

Please indicate below the participants' name(s) and company(s):

	HOST: _____ Golf/Dinner Package <input type="checkbox"/> Golf + lunch <input type="checkbox"/> Dinner-only <input type="checkbox"/>
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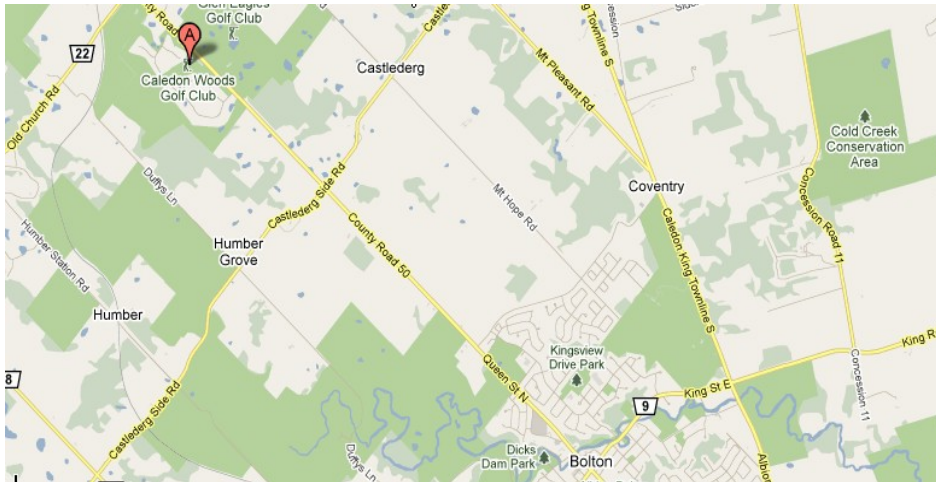
- ◆ **Pre-registration is required for this event before JUNE 30th!**
- ◆ Pre-register with Gagan Jain Email [gjain100@gmail.com](mailto:gjain100@gmail.com) (# 647-926-3674)
- ◆ Send payment before June 30th, 2016 to confirm your spot to:  
 The SCC Ontario Chapter, c/o Robert Castillo , 64 Arrow Rd. Weston ON, M9M 2L9



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- Hwy 7 west to Hwy 50.
- Hwy 50 north through the town of Bolton.
- Caledon Woods Golf Club is 6km on the west (left) side.

**Note:** if you are traveling on Hwy 407, you must exit on to Hwy 427 North.

## From Barrie

- Hwy 400 south to Hwy 9.
- Hwy 9 west to Hwy 50.
- Hwy 50 south 8km.
- Caledon Woods Golf Club is on the west (right) side



### RENTAL SET REQUEST FORM

PLEASE COMPLETE THE FORM BELOW TO RESERVE YOUR RENTAL SET OF GOLF CLUBS. FORMS MUST BE COMPLETE AND RETURNED TO CALEDON WOODS 2 WEEKS BEFORE THE DATE OF THE EVENT.

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Name of Event: \_\_\_\_\_ Date of Event: \_\_\_\_\_

Please apply the RENTAL SET charge of \$40.00 plus applicable taxes to the following credit card number:

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Credit Card #: \_\_\_\_\_ Expiry Date: \_\_\_\_\_

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Print Name

Signature

Date



### CORPORATE EVENTS DRESS CODE

#### Gentlemen

- A Golf Shirt with a Collar, Turtlenecks, or Mock-Neck Shirts (Shirts must be tucked in at all times)
- Casual or Dress Slacks
- Bermuda Shorts
- Caps can be worn with the peak forward
- Ankle or knee socks
- Soft Spike or Soft Soled Shoes

#### Ladies

- Golf Shirt with a Collar (Sleeveless style acceptable for women)
- Casual or Dress Slacks
- Bermuda Shorts
- Caps can be worn with the peak forward
- Ankle or knee socks
- Soft Spike or Soft Soled Shoes

#### Inappropriate Golf Course & Clubhouse Attire includes:

- Jeans of any kind, gym shorts, track / sweat suits, beach wear
- Shoes with metal cleats or spikes

Thank you for adhering to our policy on suitable attire at each of our clubs. Any golfer who does not follow this policy will be asked to change or purchase appropriate clothing from the golf shop. If they do not comply, they will not be permitted on the course.



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As you may have heard, anti-spam laws in Canada went into effect on July 1st of 2014. As such we have had to ask all members and anyone interested in receiving our periodic communiqués from SCC Ontario for permission to be put on our mail list. If you are no longer receiving our emails or want to be included on our circulation list going forward please click on this link below to register;

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# The 10 Different Types of Cosmetic Formulas You Must Know

by PERRY ROMANOWSKI

While there are literally thousands of different types of cosmetic products, there are actually only 10 different types of cosmetic formulas. Here is a brief overview of those types including what they are, how they're made and when you might use them. As a formulating chemist, you should make it a point to learn to make each type (even if your company currently doesn't make these particular products).

## 10 Cosmetic Product Forms

The basic categories for cosmetic formulas include

1. Solutions
2. Creams / Emulsions
3. Lotions
4. Ointments / Pastes
5. Suspensions
6. Tablets
7. Powders
8. Gels
9. Sticks
10. Aerosols



### Solution Cosmetics

These are the simplest type of cosmetic formulas and are used for a wide range of products such as shampoos, body wash, hand cleansers, colognes, etc. They are homogeneous mixtures of soluble ingredients. To make them you simply fill your container with the main diluent (usually water) then mix the rest of the ingredients into it. Sometimes warming the system slightly will increase the speed at which you can make them.

### Creams / Emulsions

The majority of cosmetics use raw materials that are not compatible so a cream or emulsion is used. Emulsions are pseudo stable mixtures of immiscible liquids dispersed in another liquid. They are used for products like hand moisturizers, make up, hair conditioners, sunscreens, etc. To create them you need three formula components including an oil phase, aqueous phase, and an emulsifier. The formulas are made by heating up the oil and water phases separately, mixing them together (along with the emulsifier) when they are hot, and cooling them down with thorough mixing. The result is a cream with tiny particles of dispersed in the diluent phase. See our article on emulsion HLB for more information on creating emulsions.

### Lotions

Creams are not always appropriate for some applications because they can be too heavy or greasy. In these cases, the lotion form is used. Lotions are essentially thin creams. They are used for facial moisturizers, leave-in hair conditioners, and moisturizing cleansers. Since these are emulsions, you make them the same way you would a cream. They are generally easier because you do not have to worry about the emulsion getting thick enough as it cools down.

*Continued on pg 20*





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### Suspensions

Suspensions are another product form for delivering incompatible ingredients. Unlike creams, they are typically clear products with visible particles like gelatin beads or inorganic minerals (e.g titanium dioxide) suspended throughout. They are used for sunscreens, hand washes or shampoos. To create them you need to include a polymer or clay that gives the formula some internal suspending structure. Ingredients like carbomer or bentonite clays are useful.

### Ointments / Pastes

These are super thick products used for things like hairdressing and medicated skin products. Usually, they are anhydrous (contain no water) and are sticky & greasy. Some common ingredients used to create pastes include petrolatum, lanolin, or dimethicone. Making them is a simple matter of heating up the raw materials and rapidly mixing them until they are dispersed.

### Tablets & Capsules

Another product form that is often used for creating color cosmetics is the tablet. These are physically blended solids that are held together by being pressed into shape. You'll need special equipment to create these products. They are also generally more expensive.

### Powders

One of the most common types of product forms for color cosmetics is powders. Powders are also used for products like baby powder & foot powder. They are just mixtures of solid raw materials blended together into a fine powder. Some typical ingredients include talc, silicates, and starch. Special equipment is needed when making these products as the fine powder can be dangerous.

### Gels

Another common form of cosmetic products is gels. These are thick products, typically clear, and have a property known as "shear thinning". This means they stay thick until you apply a force which makes them thin and flowable. Anyone who has tried to get ketchup out of a bottle knows what we're talking about. Gels are used for hair products, body washes, shaving products, and in toothpaste. They are made by using a gelling agent such as an acrylic polymer, a natural gum or a cellulosic thickener.

### Sticks

Sometimes you need to create a product that the consumer won't necessarily want to touch, for example, lipstick or underarm deodorant. In these cases you'll use a stick product form. Sticks are solid delivery forms that deliver active ingredients through a rubbing action. The way you create them is by using mostly materials that are solid at room temperature. The ingredients are heated until they melt, mixed, and poured into either a mold or the final container. When they cool, they take the shape of their packaging.

### Aerosols

Aerosols are more of a packaging product form than a specific formulation type. You could actually create an aerosol out of almost any cosmetic formulation if you have the right can, propellant, and nozzle set-up. Aerosols are any cosmetic delivered from a pressurized can. They are composed of a concentrate and a propellant. You first make the formula as you would any other cosmetic, then fill it into the can. You seal the can and pressurize it using the appropriate propellant. Recent VOC (volatile organic compounds) regulations have reduced the use of aerosols in cosmetic products.

*Article complements of <http://chemistscorner.com>*

## Did You Know?

The McGill Office for Science  
& Society (OSS)

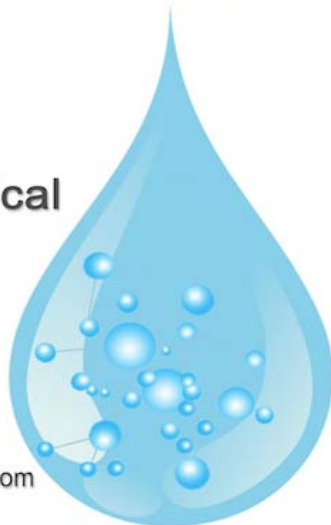
**Babies, C-Sections & Microbes**  
Babies who are delivered by C-section don't go through the birth canal, and as a result they don't get the beneficial microbes that babies born via the birth canal receive. This might help explain why C-section babies are at a higher risk for a variety of diseases. A recent study suggests, however, that this can be mitigated by slathering babies just after birth with a gauze pad that soaked up the microbes in the mothers' birth canal right before birth. Why? Because it helps restore and normalize the baby's microbiome.

  
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## ATTENDANCE DRAW!!



Last year we added a special feature to our meetings which we are continuing this year. We will be doing an "Attendance Draw" at each meeting. The rules are easy....be a member, attend the meeting and you could win. That's it...simple. A members name will be drawn at each meeting and as long as that lucky member is in attendance they get \$100!!!



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## NEWSLETTER POSTING DATES FOR 2016

Here are the dates for 2016 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 24th
- ◆ April 4th
- ◆ May 5th
- ◆ September 1st
- ◆ October 13th



(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>

## 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

[ahalasz@rogers.com](mailto:ahalasz@rogers.com)



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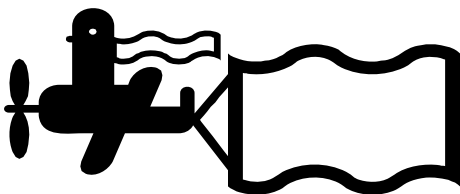
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[www.ontarioscc.org/sccsurvey.htm](http://www.ontarioscc.org/sccsurvey.htm)





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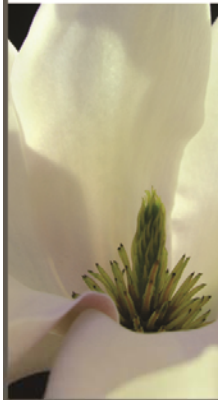


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## UPCOMING EVENTS

May 26th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—"Biotechnology and Cosmetics"- Saina Taidi
July 26th, 2016 Caledon Woods Golf Club, Bolton ON	SCC Ontario 15th Annual Golf Tournament
September 22nd, 2016 The Venetian, Vaughan ON	Education Day—Vanya Loroch, Ph D— Direct Swiss Biotech As- sociation Academy
Oct 30th-Nov 2nd, 2016 Walt Disney World Resort, Fla	29th IFSCC Congress
November 10th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—Vito Cataldo, Lonza
November 25th, 2016 The Venetian, Vaughan ON	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 the University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and 14 students have received awards.

Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at [dzuccoli@maccosmetics.com](mailto:dzuccoli@maccosmetics.com). 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.

Successful candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members of the Society, prepare a poster presentation, write an article for the newsletter and make a brief 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 \$140 US. Applications are available from your Executive Committee or on-line at [www.SCCOnline.org](http://www.SCCOnline.org).

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.

# SCC

Dedicated to the Advancement of Cosmetic Science

## 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. We have created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to the National office. Please visit the following website to make your changes;

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# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter

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SEPTEMBER 2016

Volume LXXIV

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### SCC ONTARIO EDUCATION DAY

**"Eat well and Age healthy:  
or is it the other way around? "**

**- Vanya Loroch, Ph D**

**Thursday September 22nd, 2016**



### PRE-REGISTER TO SAVE MONEY

If you prefer you can reserve a spot by email or fax. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to SEPTEMBER 19th, 2016.

Please note:

Should you register and not attend you will be invoiced the meeting fee.

Students must have their payment in by Monday prior to the meeting. To make your reservation today contact **Rob** at:

[rob.castillo@univarcana.com](mailto:rob.castillo@univarcana.com)

or by fax at (416) 740-2227 OR on-line at:

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

# SCC ONTARIO EDUCATION DAY

“Eat well and Age healthy: or is it the other way around? ”

- Vanya Loroach, Ph D

Thursday September 22nd, 2016

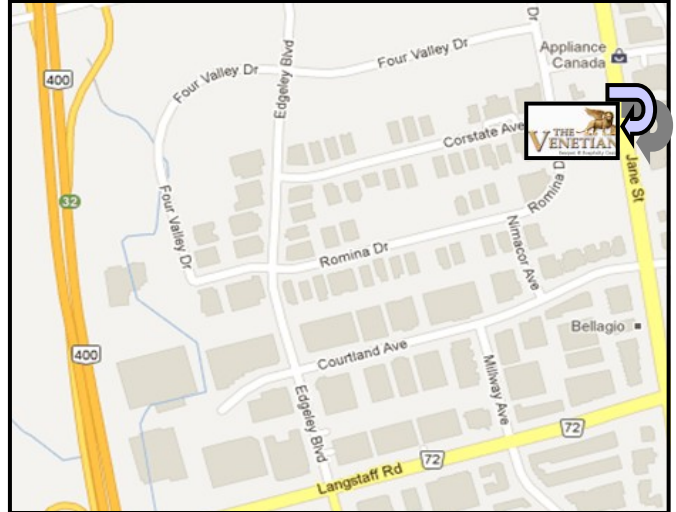
**Location:** The Venetian Banquet & Hospitality Centre  
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**Fees:** \$75 for SCC Members  
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Non-Members \$130  
(Pre-Registered)

\$30 for Students  
(pre-Registered)

**Schedule** 9am- Registration  
Noon- Lunch (provided)  
4:30pm- Adjourned



## COURSE OUTLINE

8:30am REGISTRATION

9:00 am INTRODUCTION

- Nutrition and aging: two words, many meanings, much confusion

PART I. Observing aging: what can be made visible?

- Aging at the level of tissues, cells, intra-cellular structures and molecules
- Hallmarks of aging in skin, nail and hair tissues
- Aging biomarkers

PART II. Aging, how does it work?

- Intrinsic and Extrinsic aging
- The triumph and tragedy of oxygen
- Genetics and epigenetics of aging: are there time bombs in our genome?
- Aging as the result of gene expression

PART III. Nutrition and aging: facts and fiction

- Why do we need to eat (healthy food)?
- The kaleidoscope of micronutrients
- Caloric restriction: why is it so healthy?
- An evidence-based look at nutriscosmetics

Please note:

- Lunch will be served from noon to 1pm.
- Morning and afternoon breaks included where necessary
- Adjourn approximately 4:40pm

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Course outline introduction  
Nutrition and Aging: Two Words Many Meanings Much Confusion

PART I. Observing aging: what can be made visible?

- Aging at the level of tissues, cells, intra-cellular structures and molecules
- Hallmarks of aging in skin, nail and hair tissues
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- An evidence-based look at nutriscosmetics



**Bio:**

## **Vanya Loroach, Ph D**

Vanya Loroach is a teacher and trainer in life sciences. He is a hyper-generalist. His teaching knowledge covers a number of domains: medical and non-medical biology, classical and molecular genetics, all flavors of biotechnology, drug development, medical information management, and health promotion and prevention. In the last twenty years, he has participated in a variety of educational projects driven by schools, universities or private initiatives. In the course of this work, Vanya always focused on trying to understand what lies at the heart of effective science education. By so doing, he eventually developed an original, transdisciplinary teaching method that applies to any non-biologist, ranging from a secondary school student to a seasoned PhD-level scientist.

As the CEO of the company he founded, Vanya offers rapid biology and biotech courses aimed at any professional working in life sciences and related domains. Since 2007, his trainings have benefitted over 2000 professionals representing some 200 companies and organizations active in pharma, biotech, medtech, food and cosmetics industries, environmental sciences, agriculture, engineering, academic research, politics, and the fight against doping.

In 2012, Vanya was appointed Professor at Business School Lausanne, Switzerland, where he teaches biology and biotechnology for sustainable business practices.

In 2014, Vanya was appointed Education Director of the Swiss Biotech Association Academy, a newly founded educational platform for integrative learning of all essential scientific and business foundations of the biotech and pharma industries.

Vanya holds a Ph.D. in Molecular Biology from the University of California at Santa Cruz, USA and has carried out postdoctoral research at the University of Geneva.





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## May Meeting Review

We had a busy May Chapter meeting at the Venetian. We started the evening with **Paola Battiston** from Seneca who updated us all on the recently launched Cosmetic Science Graduate Certificate program at Seneca.



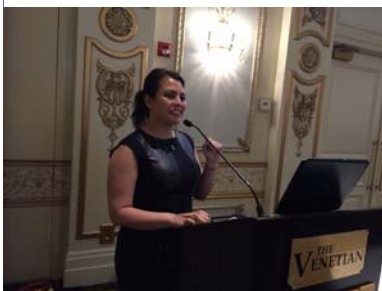
We were then fortunate to have SCC Ontario scholarship winner **Katerina Juskey** give a brief presentation on **Colour Cosmetic Trends and Claims Market Research**.

Katerina graduated with a Master of Science and Technology majoring in Fragrance and Cosmetics from (UVSQ/ISIPCA) in Versailles, France as well as a Masters in Business and

Management (MBM) from the University of Padua, Italy in December 2015. Together, the two competencies make up the European and Fragrance Cosmetic Master program, which she completed with 19 other international students. She was required to fulfill a 6-month internship to graduate from this program, which she completed at Estee Lauder in the R&D Anhydrous Lip Group last year in Markham, and she is now a Chemist with the R&D Outside Vendor Team.



Finally our featured speaker was **Saina Taida** gave a detailed presentation on "*Biotechnology and Cosmetics*". What is a "good" bio-functional active? How are biotech based actives used in cosmetics measured? How realistic is the molecular biology data and to what extent can we rely on them for beauty claims? Saina talked about some commonly used biotechnology techniques and tools that could be used in the cosmetic sciences area of knowledge as well addressed challenges in getting the right information from numerous available studies in biotech sector for cosmetic related businesses.



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## SCC -About Our Organization

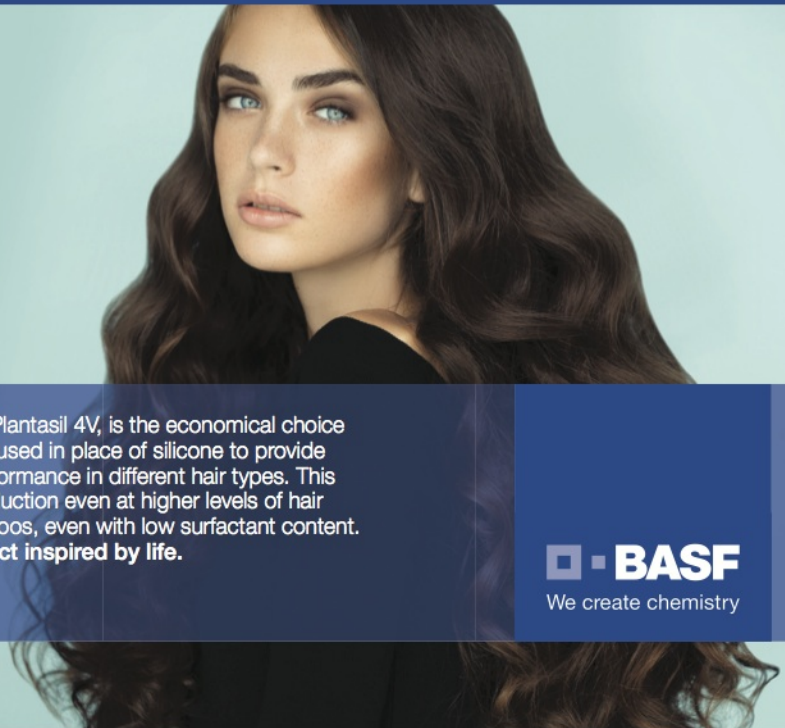
Dedicated to the advancement of cosmetic science, the Society strives to increase and disseminate scientific information through meetings and publications. By promoting research in cosmetic science and industry, and by setting high ethical, professional and educational standards, we reach our goal of 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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# 16<sup>th</sup> Annual SCC Ontario Chapter Golf Tournament

The weather couldn't have been better for a great day out with friends and colleagues on the links in the rolling hills of Caledon!! On July 26<sup>th</sup> our 16<sup>th</sup> annual SCC Ontario Chapter Golf Tournament was again held at **Caledon Woods Golf Club** north of Bolton! As a "Club Link" course our SCC members were well taken care of by the staff. We had a wonderful turnout with 76 golfers and a total of 101 attendees which included dinner guests!

To all the golfers who attended, thank you for your participation!

Esteemed winners were as follows:

First Lowest Score: Craig Broijer, Sam Maduri, Jim McKellar, Doug Morin

Second Lowest Score Tie First Runner up: Walter Schlichtig, Alfred Loh, Toby Bajzik, Joe Orofiamma

We also held five skills competitions. The most skillful of our group were:

Longest Drive Ladies: Mandy Billings  
Longest Drive Men: Andy Formagie  
Closest to the Pin Men: Sam Maduri  
Closest to the Pin Ladies: Sharon Robertson  
Closest to the Line Men & Ladies: Cecil Lobo

No matter how large or small the event, there is always a lot of work that goes into it and this golf tournament is no exception. A special thank you goes out to **Gagan Jain** and **Craig Broijer** for their time and effort in organizing this grand event. Next year's plans are already in the works!

Again we thank our good friend **Wayne Fretz** who took a great series of pictures at the event which can be viewed at;

<http://www.ontarioscc.org/sept2016/golf/>

## A special THANK YOU to our valued contributors...

Support of this event was overwhelming, and thanks to the generosity of our suppliers and manufacturers almost every golfer finished the day with a prize.

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## SCC ONTARIO EMAIL REGISTRATION

As you may have heard, anti-spam laws in Canada went into effect on July 1st of 2014. As such we have had to ask all members and anyone interested in receiving our periodic communiqués from SCC Ontario for permission to be put on our mail list. If you are no longer receiving our emails or want to be included on our circulation list going forward please click on this link below to register;

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# Evolution of Bleach Protection

**By: Hillary A. Phillis**

**Marketing Manager, Active Concepts LLC**

## Introduction

Identity or Accessory? Lucinda Ellery, hair specialist, wrote a feature article for The Huffington Post explaining that we view our hair as a "reflection of our identity."<sup>1</sup> But truly, our hair is both an accessory and part of our identity. It is simultaneously personal and public. Beauty, along with liberation and femininity, are social movements that track parallel to the trends in the hair care industry. Hair styles, and colors, are symbolic and iconic statements made throughout history.

In the quest for individual expression, hair is exposed to mechanical, thermal, and chemical stressors. Mechanical and thermal processes contribute to some hair damage. However, chemical treatments tend to push hair fibers to their limit. An impressive 75% of women color their hair and a growing percentage of men.<sup>2</sup> Blonde is the most coveted hair color giving bleach the strong hold on the market. Now, take a look at more recent hair color trends...vibrant magentas, pastel pinks, punchy purples, and lovely lavenders are dominating the media. The only way to achieve these new, popular hair colors is by first bleaching the hair, and then applying your color of desire...imagine the damage! Fortunately, technological advances in cosmetic chemistry have allowed for the creation of innovative products that are able to form a scaffolding around the hair shaft, protecting the hair during chemical processing.

## Structure of hair

The hair fiber consists of three main layers: medulla, cortex, and cuticle. The innermost layer, the medulla, is a thin core of transparent cells and air spaces. In some humans, the medulla has a distinct shape within the core of hair that can only be seen using highly magnified viewing methods. The cortex is the main body of the hair fiber and sits between the medulla and the cuticle. The cortex consists of long keratin filaments held together via disulfide and hydrogen bonds, where the melanin pigment is found. The cuticle, or outermost layer of the hair, protects the cortex and medulla. This protective layer is composed of overlapping, tightly packed, downward-facing scales. When in this position, the cuticle prevents moisture loss, while acting as the fiber's protective barrier.

All three layers comprise the shaft of the hair, the non-living portion that extends from the scalp, with the main constituent being the protein keratin. The keratin protein is compacted and cemented together to give a distinct shape to the hair strand. Keratin, by nature, is a sulfur-rich protein with strong disulfide bonds producing hair's resilience and strength. The hair shaft is strengthened by hydrogen bonds which are weaker, yet more numerous than disulfide bonds, and contribute to hair's flexibility. The medulla and cortex contains the pigments known as melanins, specifically eumelanin and pheomelanin. Melanin is responsible for giving skin, eyes, and hair visible pigment. Eumelanin is responsible for dark brown shades while pheomelanin produces red pigmentation. Pigment ratios, or lack thereof, produce different shades of hair color. Complete loss of melanin produces white or gray hues, while low concentrations of both proteins result in naturally blonde hair. In order to alter the color of hair, the melanin within the hair fiber must be altered.

## Bleaching Process

Bleach is utilized in the lightening of locks to create the perfect creamy, platinum hue, or to prep the hair for additional color treatments.

*Continued pg 17,18*

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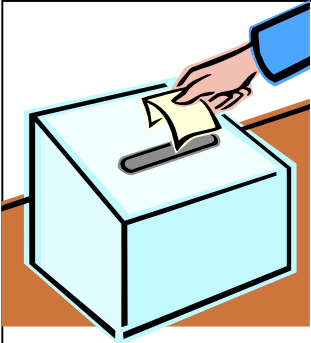
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## 2017 SCC Ontario Chapter Board Elections

It is time for elections of the 2017 SCC Ontario Chapter Board Members. We have two positions open for election this year: Chair-Elect and Treasurer.

**As a member of the SCC Ontario Chapter you will soon be sent specific instructions on how to cast your 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 10th, 2016 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

### 2016 SCC Ontario Chapter Board Members

Position	Name	Phone	Email
Chair	Shahin Kalantari	416-567-6572	shahink@davicenna.com
Chair-Elect	Saina Taidi	416-758-3700	staidi@apollocorp.com
Treasurer	Robert Castillo	416-740-5300	rob.castillo@univarcanada.com
Secretary	Monika Melao	416-741-9264	mmelao@ctc.ca

### 2016 Ontario Chapter Candidates

#### CHAIR ELECT

Candidate: Elizabeth Peitsis

Elizabeth Peitsis started her career in the Personal Care industry 10 years ago as a Senior Purchaser for Hunter Amenities. While employed at Hunter she learned various aspects of the business and implemented valuable process improvements. In 2009 Elizabeth was featured in a global magazine article for Cosmetics International; discussing the downturn within the market and the economic challenges. Through various roles and her passion for Cosmetics, Elizabeth has been able to evolve in her Career, currently employed by Azelis Canada Inc in the position of Sales Account Manager for Personal Care. In her free time Elizabeth enjoys hosting social events and is an outdoors enthusiast. She is especially grateful for the positive support from her friends and colleagues who have always encouraged her throughout her career. Elizabeth Peitsis has been an active Board Member for the Ontario Society of Cosmetic Chemists for the last 7 years where she has participated and planned several events.

#### TREASURER

Candidate: Robert Castillo

Robert Castillo is currently a Sales Manager at Univar Canada looking after The Personal Care & Pharmaceutical Industries. Prior to this Rob was an Account Manager calling on the Personal Care Industry for over 10 years and still has some direct sales & Product Management responsibilities. He had started out at CHEMCENTRAL in 2000 and quickly found a home in the Personal Care Industry and continued this role when they were acquired by Univar in 2007. It was at that time that he joined the SCC and is now also an active member of the board.

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Volumes of hydrogen peroxide ranging from ten to forty are used as developer in the bleaching process to deliver a range of desired results. Each volume has a specific hydrogen peroxide content ranging from 3% to 12%. The higher the volume the more oxygen that can be released in the hair shaft when applied. Therefore, the volume is selected specifically for the treatment or lift desired. The volume of hydrogen peroxide, also known as the developer, is added into the bleach powder or cream. The bleach powder or cream typically contain agents to speed up the process of bleaching the hair such as: ammonium persulfate, potassium persulfate, sodium persulfate, or a mixture of all three. The highly alkaline mixture of developer and bleach raises the cuticle of the hair fiber and allows hydrogen peroxide to penetrate the cortex, acting as the oxidizing agent. A series of irreversible oxidation reactions utilizing oxygen remove electrons from the melanin resulting in the well-known color change.

The melanin within the cortex remains present, but is rendered colorless through the reactions, producing the resulting blonde palette. The lighter or more lifted the hair, the more visible the pale yellow tint of keratin.

Hair is naturally proteinaceous containing a vast amount of oxidizable groups, not just melanin. When bleaching the hair, more than one type of bond and protein is affected, resulting in damaged, weakened hair. Hydrogen peroxide damages thioester bonds between cuticle cells, areas rich in amino acids, ionic bonds, and disulfide bonds in the cortical matrix. But the damage doesn't stop there, 18-methyl eicosanoic acid, a fatty acid found on the surface of the hair is degraded resulting in dry, brittle hair fibers. Additionally, during the chemical process the cuticle is raised, causing it to be porous, like a sponge. Just as sponges behave, the hair soaks up water quickly but it loses it just as fast. In conjunction with stressors, fibers receive no relief from the damage imposed.

As popular trends continue toward the extreme, repairing the structure and elasticity, particularly after bleach applications, is not only desired, but necessary.

### **Damage Prevention & Repair**

The degree of damage inflicted during chemical processes rarely deters a consumer. Repair is often the after-thought resulting from chemical damage, when the excitement has worn off. Throughout the evolution of modern hair care, consumers have witnessed multiple iterations of hair repair options. Typical means of damage repair include; reparative shampoos, deep or leave in conditioners, treatments, hair masks, and most recently, hair oils. These current market offerings utilize a range of mechanisms, which stand on their predecessors to target both pre and post treatment repair.

Dating back to the early 1970's, dimer acid esters were utilized to pretreat the hair or to use concurrently with bleach to coat and protect adding an additional layer of protection from the harsh chemical treatment.<sup>3</sup> According to US Patent 4,067,345 Kelly, et al. hair treated with this protective organic compound was less susceptible to post bleach damage. Meanwhile, silicones gained popularity in the 70's, offering a multitude of varieties that have been and are still largely utilized in hair care. US Patent 8,740,995 Schweinsberg, et al. specifically discusses the pretreatment use of a 4-morpholinomethyl-substituted silicone which offers improved hair protection with no negative effect on the outcome of the oxidativetreatment.<sup>4</sup> Silicones and synthetic copolymers characteristic barrier protection continues to be the main driving force in pre-bleach treatments.

Posttreatment repair offerings have also spanned the spectrum over the years. US Patent 5,136,093 Smith discusses quaternized panthenol as a remedy for post-bleached fibers in the early 90's via hair fiber penetration. Quaternized panthenol was claimed to penetrate the hair deeply to provide long lasting moisture control, reduce split ends, smooth the cuticle, and repair damage by chemical processes.<sup>5</sup> Posttreatment remedies typically take advantage of the damaged, ruptured cuticle to offer short term smoothing. US Patent 8,927,751 Moriya utilizes an organopolysiloxane with a specific organic group to smooth the cuticle and deliver enhanced combability properties to the damaged hair.<sup>6</sup>



Additional mechanisms range from utilizing silicones, silicone copolymers, and silicone moieties to coat and protect from further damage, quaternary ammonia compounds to condition and rehydrate, and hydrolyzed proteins to strengthen and protect damaged locks. Anionic keratin sulfonates have also been used to condition and strengthen the hair by binding to the fiber post chemical treatment. Posttreatment mechanisms have evolved to a more recent technology: bond repair. US Patent 9,095,518 Pressly, et al. discusses the repair of the ruptured disulfide bonds within the hair. US Patent 9,326,926 Pressly, et al. utilizes polyfunctional compounds capable of forming ionic bonds to aid in repair to bring hair back to its pretreatment state.<sup>7,8</sup> Evolution of both pre and post treatments have resulted in a traceable timeline of innovation from dimer acid esters, silicone based mechanisms, to bond repair.

The personal care industry often seeks information from a multitude of other industries and vice versa. Currently within the chemical industry the pressure for greener product chemistry and the push to move away from petrochemicals and silicone based technologies has impacted the lines of innovation within the personal care raw materials industry. Just as the timeline of evolution is visible through bleach repair, the shift to accommodate consumer pressures will become evident in the coming years. As the market demands new, multifunctional mechanisms innovation must shift to accommodate.

Leading edge technology indicates that mimicking bio-films formed by microorganisms could be the next step in chemical process protection. Synthetic biology is the re-design of existing, natural biological systems for other, useful purposes.<sup>9</sup> Through synthetic biology inspiration for natural product chemistry can be drawn. Specifically bio-films, unlike typical films, are polymeric chains forming a conglomeration of proteins, amino acids and polysaccharides that creates a complex, supportive interwoven matrix. A potential mechanism, US Patent Application 62/289,493, mimics the structure of bio-films, creating a supporting scaffolding matrix on the hair fiber while still allowing the bleach particles to penetrate the cortex and react. Innovative research, inspired by nature shows a supportive scaffolding matrix, derived from hydrolyzed pea protein & *Selaginella lepidophylla* extract, is a chemically resilient material that ionically binds to the hair's cuticle offering long-term protection from harsh hair color, free radicals, peroxides, and environmental stressors.

The three dimensional structure self-situates between the cuticle and the cortex where it self assembles to its supporting scaffolding with a semi-permeable membrane to reinforce and support the hair's structure. This support allows for minimal damage to the fiber during the harsh chemical process. Concurrently, the product seals the cuticle to lock in moisture and prevent further damage. The concept of prevention via support with simultaneous long term sealing of the cuticle is the leading edge of next generation hair care.

In a world where more is more, combining prevention and repair is the next logical step to allow trends like bright purple locks to become attainable without the excess damage. An engineered plant-based hybrid biopolymer utilizing poly-compound reactions brings the idea of a multi-step and multi-level web of protection to life in the next iteration of consumer inspired hair care technology.

References:

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- 8- Pressly et al. US Patent 9,326,926, 2014
- 9- *Synthetic Biology*. Web. 25 July 2016

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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 and its Annual Scientific Seminar each May. 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 seventeen 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.

## ATTENDANCE DRAW!!

Last year we added a special feature to our regular meetings which we are continuing this year. We will be doing an "Attendance Draw" at each meeting. The rules are easy....be a member, attend the meeting and you could win. That's it...simple. A member's name will be drawn at each meeting and as long as that lucky member is in attendance they get \$100!!!



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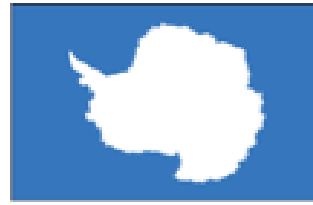
# Trivia (answers pg 24)

## PART A

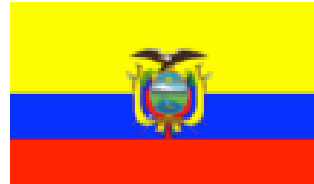
- Which country has the largest land mass?
  - Canada
  - Russia
  - China
  - USA
- Which country is the most linguistically diverse?
  - Indonesia
  - USA
  - India
  - Papua New Guinea
- Of the following, which country has the lowest population density?
  - Russia
  - Iceland
  - Mongolia
  - Australia
- Which country has the highest population?
  - India
  - Indonesia
  - China
  - USA
- Which country has the most billionaires?
  - USA
  - China
  - Russia
  - India
- Which country has the largest army?
  - USA
  - China
  - North Korea
  - India
- Which country has the most Nobel Prize winners?
  - Germany
  - USA
  - United Kingdom
  - Canada

## PART B

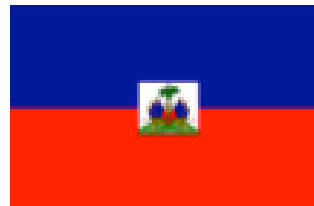
Match the country to the flag



NORTH KOREA



LEBANON



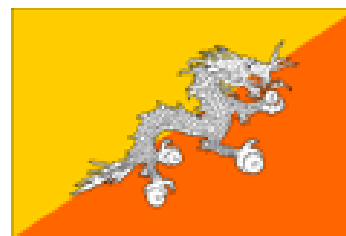
BHUTAN



ANTARTICA



ECUADOR



HAITI



SRI LANKA



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## NEWSLETTER POSTING DATES FOR 2016

Here are the dates for 2016 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 24th
- ◆ April 4th
- ◆ May 5th
- ◆ September 1st
- ◆ October 13th



(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>

## 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

[ahalasz@rogers.com](mailto:ahalasz@rogers.com)



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## Trivia (see pg 21)

### PART B



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NORTH KOREA



SRI LANKA



BHUTAN



LEBANON

### PART A

1. B—Russia
2. D- Papua New Guinea
3. C-Mongolia
4. C -China
5. A- USA
6. B- China
7. B- USA



....to the winning table at our May meeting comprised of Abena Gyamfi-Aidoo, Anna Boateng, Nilay Shah, Donna Landry, Keith Ali, Ivy Phung and Leana Rosanelli

Special thanks to Andrea Boylan for preparing the trivia!!

## JOB SEARCH

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Note: Resumes will be accepted until September 19th with interviews beginning September 20th



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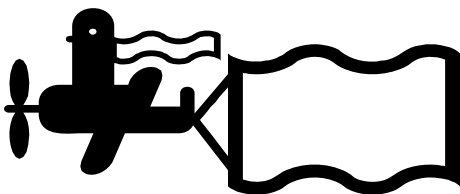
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[www.ontarioscc.org/sccsurvey.htm](http://www.ontarioscc.org/sccsurvey.htm)



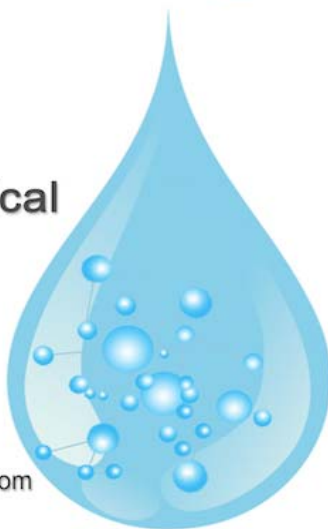
  
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## UPCOMING EVENTS

September 22nd, 2016 The Venetian, Vaughan ON	Education Day—Vanya Loroch, Ph D— Direct Swiss Biotech Association Academy
Oct 30th-Nov 2nd, 2016 Walt Disney World Resort, Fla	29th IFSCC Congress
November 10th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—Vito Cataldo, Lonza
November 25th, 2016 The Venetian, Vaughan ON	Holiday Dinner Dance
February 2nd, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
March 23rd, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
May 25th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
September 19th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Education Day— TBA
November 9th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
November 24th, 2017 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance

## ONTARIO CHAPTER SCHOLARSHIP PROGRAMSOCIETY 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 the University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and 14 students have received awards.



Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at [dzucoli@maccosmetics.com](mailto:dzucoli@maccosmetics.com). 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.

Successful candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members of the Society, prepare a poster presentation, write an article for the newsletter and make a brief 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 \$140 US. Applications are available from your Executive Committee or on-line at [www.SCCOnline.org](http://www.SCCOnline.org).

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.

# SCC

Dedicated to the Advancement of Cosmetic Science

## 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. We have created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to the National office. Please visit the following website to make your changes;

<http://www.sconline.org>

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# NORTHERN HIGHLIGHTS

## The SCC Ontario Chapter's Newsletter

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OCTOBER 2016

Volume LXXV

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## SCC ONTARIO CHAPTER MEETING

*"Global Trends in Skin Care and  
How the Facial Wipe Market is Evolving."*

- Vito Cataldo

**Thursday November 10th, 2016**



### PRE-REGISTER TO SAVE MONEY

If you prefer you can reserve a spot by email or fax. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to NOVEMBER 7TH, 2016

Please note:

Should you register and not attend you will be invoiced the meeting fee.

Students must have their payment in by Monday prior to the meeting. To make your reservation today contact **Rob** at:

[rob.castillo@univarcana.com](mailto:rob.castillo@univarcana.com)

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## SCC ONTARIO CHAPTER MEETING

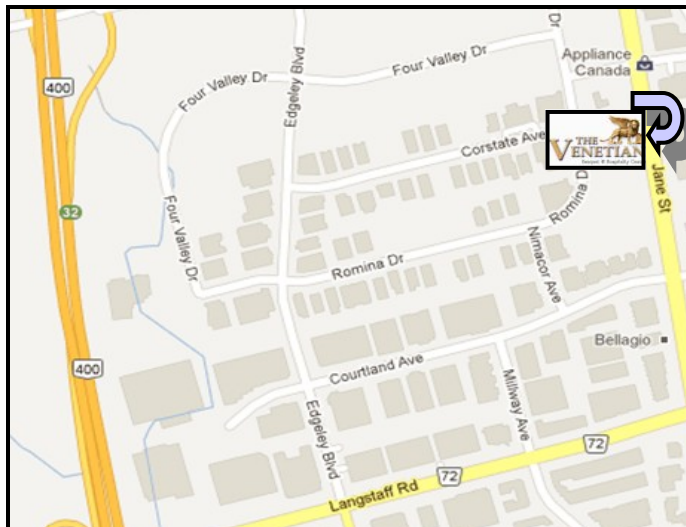
*“Global Trends in Skin Care and How the Facial Wipe Market is Evolving.”*  
- Vito Cataldo

Thursday November 10th, 2016

**Location:** The Venetian Banquet & Hospitality  
Centre 219 Romina Drive, City of  
Vaughan, ON, L4K 4V3  
(tel: 905-264-9960)

**Time:** 5:00 Cocktails  
6:00 Dinner  
7:00 Presentation  
8:00 Adjournment

**Fees:** \$45 pre-paid SCC member  
\$55 pre-paid non-member  
\$10 pre-paid student  
\$60 at the door



### Abstract:

Consumers are busier than ever before (or so they perceive themselves to be), and this on-the-go lifestyle is helping to drive the high growth rate of facial wipes. These wipes are convenient, quick, and can be packed just about anywhere, but they are no longer just for make-up removal. Consumers are looking to the facial wipe market to provide them with multiple benefits, and to supplement (or replace) their skin care regimens. This is especially true for the millennial generation, which is projected to surpass the oversized baby boomer generation as the nation's largest living generation, this year.

The multifunctional claims being made in facial wipes mirror some of the claims seen in the skin care market. By following global skin care trends, we can begin to predict what the next generation of facial wipes may look like, and gain some insight into what the future of substrate-based products is in personal care.

### Biography:

Vito Cataldo is responsible for directing the strategy for Lonza's North America Personal Care business, which includes skin care, hair care, preservation, rinse-off, and wipes markets. He assesses and predicts market trends, competitor activities, and customer needs in order to effectively position Lonza's technologies for growth. He also collaborates with global portfolio managers to drive innovation in these portfolios to fill the unmet needs of personal care formulators in the future.

Vito has a long history in the Personal Care market, where he has held roles in formulation, basic research, product development, product management, and marketing. He has a Bachelor's degree in Chemistry/Economics, a Master's degree in Chemistry, and is currently pursuing an MBA.



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## Education Day Review

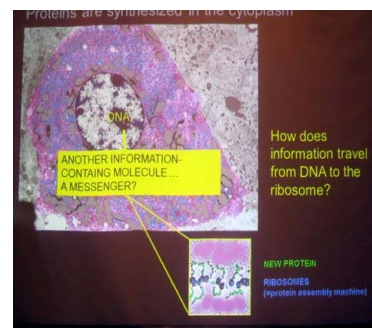


This years SCC Ontario Education Day held on September 22nd was a particularly interesting and thought provoking day! We were pleased to have Vanya Loroach, Ph.,D who is a teacher and trainer in life sciences based in Switzerland. He describes himself as a “hyper-generalist”. In the course of this work, Vanya always focused on trying to understand what lies at the heart of effective science education. His

teachings cover a number of domains including medical and non-medical biology, classical and molecular genetics, as well as flavors of biotechnology, drug development, medical information management, and health promotion and prevention.

Vanya’s focus for the day was “Nutrition and Aging” with the presentation topic being **“Eat Well and Age Healthy: or is it the other way around?”** The talk was a fast paced, candid and

scientifically sound exploration of confirmed and suspected links between nutrition and aging. He discussed the fundamentals of modern biology that explain key mechanisms believed to be responsible for different forms of aging. As well as various hypotheses that explain why aging is inevitable and how it may be delayed.



## Merit Award Presented

The SCC Ontario board was very pleased to honour one of their own at Septembers Education Day held at the Venetian on September 22nd!

As a long time board member and active member of the SCC Ontario community, **Andrea Boylan** has demonstrated exceptional commitment and involvement in the Chapter for many years.

Andrea has been an SCC Ontario Chapter board member for over ten years and has previously held the elected positions of Secretary and Chair, as well being apart of the planning committee for the annual Holiday Dinner Dance party. Andrea can always be depended upon to lend a helping hand whatever the task and always with a cheery smile!



More recently she has been challenging us all at Chapter meetings with her ever popular trivia contests!

The members of the SCC Ontario executive committee thank Andrea for all her hard work!!!

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## SCC Membership Dues Renewal

Renewal notices for 2017 were mailed out recently. Final notices will be sent at the end of November. Dues fees are US\$140.00.

**Please note you can now  
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**ON-LINE! Go to  
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**Members who do not renew by  
December 31st will be made  
inactive.**



## MEMBERSHIP RETENTION CONTEST

The SCC Ontario Chapter is offering **ALL** its members a chance to win a free meeting by simply renewing their SCC membership prior to the December 31st cut off. As a Chapter, if we retain the highest number of returning members vs. the other North American chapters... **WE WIN!**

**DON'T BE LATE!!!**

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## HOLIDAY DINNER DANCE

On November 25th, 2016, the SCC Ontario Chapter will be holding its 20th Annual Holiday Dinner Dance at The Venetian Banquet & Hospitality Centre, 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960)

Start the evening at 6:00 p.m. by enjoying the specialties from the antipasto table. Dinner will follow at 7:15 p.m. SHARP. The dance floor will be open until 1:00 a.m. and you can enjoy a sweets table at 10:30 p.m.

Our “Toy Mountain” toy drive is back this year after another HUGE success last year. See details on page 10!

Also back by popular demand the music and entertainment of “Matt Dean Productions”!!! [www.mattdean.com](http://www.mattdean.com)

The price is \$100 per person. Corporate tables of 8 at \$800 or 10 at \$1000 are available. Single table of eight minimum.

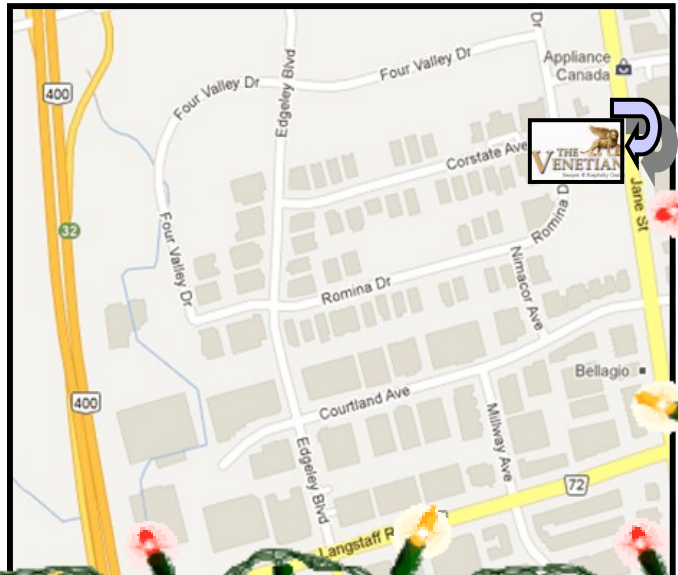
Please RSVP to **Dorothy Maraprossians** by email [dorothy.maraprossians@azelisamericas.ca](mailto:dorothy.maraprossians@azelisamericas.ca) or call 905-601-8766 by November 15th.

Our Holiday Dinner Dance is always a huge success as it gives us all the opportunity to gather together for an informal evening. Mark your calendars now and R.S.V.P. soon.

PLEASE NOTE...this is a first come first serve event!  
Attendance has grown each year and space is limited so please book soon!

### *MENU*

Venetian Antipasto Station  
Soup— Tomato & Roasted Red Pepper Bisque garnished with fresh Chives  
Salad— Venetian Cucumber Wrapped Salad with Parmigiano Shavings (dressing on side)  
Risotto—Risotto with fresh Asparahus  
Entrees—Chicken Gouda and Sea Bass with White Wine & Herb Sauce  
Vegetables—Baby Carrots, Broccoli, Twice Baked Potato no bacon  
Desert—Wafer Cup Delight with Scoop of Vanilla Ice Cream topped with fresh strawberries & Kiwi





# Ontario Chapter



*Holiday Dinner Dance*

*R.S.V.P.*

*Friday, November 25th, 2016*

Please reply to Dorothy Maraprossians at 905-601-8766  
or email [dorothy.maraprossians@azelisamericas.ca](mailto:dorothy.maraprossians@azelisamericas.ca)  
by November 15th, 2016. I/We will be attending,

Name: \_\_\_\_\_

Number of Persons: \_\_\_\_\_

\_\_\_\_\_ table(s) of 8 at \$800 per table

or

\_\_\_\_\_ table(s) of 10 at \$1000 per table

\_\_\_\_\_ number vegetarian meals required

Total amount enclosed: \$\_\_\_\_\_

**Please make cheque payable to: "SCC Ontario Chapter".**

**Mail to: 64 Arrow Rd. Weston ON, M9M 2L9**

If confirmation is not received by November 15th, 2016, please contact  
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Please forward confirmation to:

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Phone: \_\_\_\_\_ FAX: \_\_\_\_\_



## Helping to Build Toy Mountain to Greater Heights

**Holiday Dinner Dance**  
Friday, November 25, 2016

**Attention Party Goers**



In anticipation of the Upcoming Season, the Ontario Chapter of the Society of Cosmetic Chemists is excited to assist local disadvantaged children and teens have a happier holiday season.

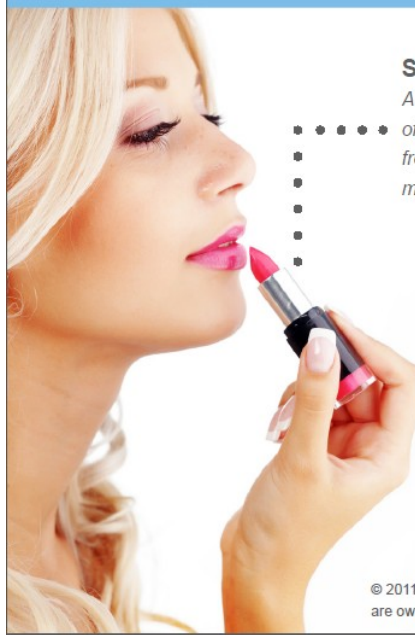
We would like to encourage all who are intending to join us at the upcoming Holiday Dinner Dance to bring a new and unwrapped toy of a \$10.00 minimum value to the event.

The Toys will be donated to 'Toy Mountain', which has been spreading holiday cheer to children for 21 years ! A raffle ticket will be provided to all who donate, which will enter you into a draw for our "Grand Cash Prize" !


Happy Holidays to All from the SCC Ontario Chapter Board Members.







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## SCC ONTARIO EMAIL REGISTRATION

**As you may have heard, anti-spam laws in Canada went into effect on July 1st of 2014. As such we have had to ask all members and anyone interested in receiving our periodic communiqués from SCC Ontario for permission to be put on our mail list. If you are no longer receiving our emails or want to be included on our circulation list going forward please click on this link below to register;**

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# Urban Defense: Strategies for Pollution Protection

Tia Alkazaz

As the number of people living in cities is increasing, there is a growing concern about the effects of atmospheric pollution on skin health. The harmful effects of ultraviolet radiation and smoking on skin health is well understood, and appropriate skin protection measures have been established to prevent premature skin aging. However, atmospheric pollution is a relatively newer concern that has the cosmetic industry developing new ingredients, and adapting formulation concepts for skin protection and repair. Air pollution in Asia is at an all-time high due to auto emissions, cigarette and industrial smoke.<sup>1</sup> The Environmental Protection Agency (EPA) is leading the charge against air pollution in the United States, as awareness of the skin damaging effects of pollution is spreading through the Western hemisphere. Addressing concerns over pollution allows cosmetic brands to leverage the influence of the expanded consumer awareness into a new market for skin care that works to actively fight against pollution.

The skin is our body's largest organ, and as such, it's constantly exposed to the fine particles, heavy metals, ozone, carbon monoxide, or volatile organic compounds that are concentrated in the air. These particles can adhere to the skin and transfer pollutants into the skin. The latest standard of pollution, the Environmental Protection Agency's PM 2.5 (Particulate Matter 2.5, air pollutants with a diameter of 2.5 microns or less) measures tiny particles that reduce visibility and have implications in overall air quality. These finer particles disrupt the skin barrier, damage skin tissue, and accelerate aging.<sup>2</sup> Carbon and metal micro particles found in polluted air embed in the epidermis causing oxidative stress, initiating the inflammatory cascade that leads to the breakdown of collagen, elastin, and other structural components in the skin. Additionally, skin exposure to carbon micro particles can overstimulate keratinocytes and melanocytes, resulting in hyperpigmentation and age spots.<sup>3</sup>

While acting as a natural shield, our skin is limited in its ability to defend against today's prevailing environmental stressors. Major anti-pollution claims for cosmetics emphasize film forming, anti-oxidant, and anti-inflammatory capabilities. Protecting the skin from atmospheric pollution is now a target for cosmetic ingredient suppliers, and several strategies are available for skin defense. These strategies address pollution, not only on the surface of the skin, but also deeper at the cellular level.

One effective way to defend against atmospheric pollution is isolating the skin from external environmental factors with by forming a film on the skin surface. Providing a physical barrier against environmental pollutants is currently done through the use of silicones, peptides, and polysaccharide rich systems.

Silicone film formers can improve the aesthetics of formulations and reduce the detrimental impact of environmental pollution by inhibiting the adhesion of particulate matter on the skin surface. Silicone based film forming technology, such as dimethicone, cyclopentasiloxane, or cyclohexasiloxane, can form a flexible film on the surface of the skin and shield the skin from environmental pollution due to silicone's ability to form low surface energy coatings. Silicones are able to create a protective sheath that improves the softness and smoothness of skin, however after several applications, silicones may leave a heavy, waxy buildup on the skin that consumers find unpleasant.

Continued on pg 19



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- The Javits Center – the preferred venue targeting the NY/Metro region and offering over 80,000 square feet of contiguous exhibit space – no hallways, small alcoves – only space that flows and provides you with optimal business exchange with all visitors.
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As an alternative to silicones, peptides or polysaccharide rich systems can be used to shield the surface of the skin. Naturally derived peptides, such as those in Glycerin and *Moringa Pterygosperma* Seed Extract, are also able to provide pollution protection via film forming. Peptides obtained by the extraction of the seeds of *Moringa pterygosperma* are able to form a barrier on the surface of the skin to facilitate the removal of environmental particulates that adhere to the skin, protecting skin against aggressions by pollutants.

Polysaccharide rich systems, such as those found in *Selaginella lepidophylla* extract, are able to inhibit atmospheric particulates from remaining on, or penetrating into, the skin by creating a synthetic scaffolding. *Selaginella lepidophylla*, commonly known as the Rose of Jericho, is a desert botanical able to withstand long periods of almost total desiccation and then fully recover when exposed to elevated moisture levels. Exposure to oxidative stress triggers the production of the plant's moisture-retentive system that is rich in polysaccharides. Those polysaccharides help retain water, keeping *Selaginella lepidophylla* hydrated throughout droughts, preventing desiccation. The protective and moisture-retentive properties associated with the plant's polysaccharides and secondary metabolites enable formulators to create functional products that deliver film forming benefits to the skin.

Each of these polysaccharide rich systems, peptides, and silicones provide a physical barrier that prevents embedment of carbon particles, thus reducing the signs of extrinsic aging. Performing a Pollution Protection Analysis will determine the effectiveness of a physical barrier provided by a film forming ingredient against micronized charcoal using the EPA's PM 2.5 standard. The application of the film forming ingredient to the volar forearm followed by contamination with a premeasured amount of micronized charcoal and subsequent washing with a controlled amount of water allows for the assessment of the film-former's ability to inhibit pollution remaining on the skin. Images of the skin taken pre- and post-wash using a dissecting microscope undergo color analysis and the results are depicted in optical density values and pigmentation histograms. This allows pollution protection to be measured quantitatively. The lower the mean optical density value the better protection against carbon particle embedment or PM 2.5 inhibition. A physical barrier established by a film-former can effectively prevent the deposition of invasive PM 2.5 particles into the skin's fine lines and wrinkles, therefore defending the skin against pollution-driven aging.

Addressing pollution at a cellular level represents a revolutionary shift, as typical anti-pollution products focus on the skin surface. Strategies to defend against cellular pollution include addressing free radical damage through the topical application of an antioxidant, as well as addressing oxidative stress by upregulating cellular antioxidants.

Environmental pollutants increase the number of free radicals in the air and these free radicals can accumulate and disrupt normal cellular functions, resulting in premature skin aging. Vitamin C (ascorbic acid) and Vitamin E are antioxidants capable of neutralizing free radicals to protect cells against the effects of environmental pollution. Vitamin C is water soluble and Vitamin E is lipid soluble, so the combination of the two can protect against free radical damage of both the hydrophilic and lipophilic compartments of the cell. Regular application of cosmetics rich in Vitamin C and Vitamin E can be one of the most effective ways to neutralize free radicals and strengthen the skin's defense against environmental particulates.

Instead of topically applying an antioxidant to defend against free radical damage, understanding sulfur biology has allowed for a method of enhancing cellular antioxidant activity to provide pollution protection from within. Environmental pollutants are able to reduce the levels of cellular antioxidants which act as the main line of defense against cellular oxidative damage.<sup>3</sup> Understanding the pathways leading to the induction of antioxidant responses, will enable chemists to develop strategies that protect against oxidative damage.



The Mitochondrial Free Radical Theory of Aging is a widely accepted theory which explains the cause of skin aging.<sup>4</sup> This theory depicts oxidative stress as a byproduct of cellular metabolism, explaining that overproduction of reactive oxygen species pushes the capacity of mitochondrial antioxidant defenses, causing a buildup of oxidative damage to occur.<sup>4</sup> Accumulation of reactive oxygen species in the mitochondria causes cellular dysfunction, resulting in changes to our skin's appearance – including the visible signs of aging like fine lines and wrinkles.

Sulfur biology is a relatively untapped method for controlling mitochondrial activity, presenting real opportunity for brand defining anti-aging claims. Sulfated polysaccharides derived from dinoflagellate microalgae, such as *Cryptothecodinium cohnii*, have the ability to combat aging via upregulation of cellular glutathione. Glutathione is a low molecular weight, thiol-bearing, free-radical scavenger that decreases within the epidermis of aged and damaged skin. The simple, topical application of glutathione is ineffective. Topical application does not allow for an increase of cellular glutathione levels, as the zwitterionic structure of the molecule hinders its ability to penetrate through the lipophilic barriers of the stratum corneum and cell membranes. Sulfated polysaccharides, isolated from dinoflagellate microalgae, act as sulfide donors and play a role in the upregulation of cellular glutathione. By restoring levels of depleted glutathione, resulting from contamination of atmospheric particulates, purification of pollutants occurs at a cellular level. Elevated levels of glutathione in the cell also help combat inflammation, preserve overall cell health, and slow the signs and symptoms of aging. Increasing glutathione levels can help convert oxidized molecules back to their reduced state and prevent cell damage.<sup>5</sup>

Whether the approach is on the surface of the skin or at a cellular level, anti-aging products will always be highly desired in the cosmetic industry. The rapidly growing interest in pollution protection formulations is sure to be well-received by appearance minded consumers. Whether defense comes from a physical barrier by a film forming ingredient or upregulating cellular antioxidant levels, providing cosmetic solutions that are able to preserve skin health during exposure to environmental stressors represents a high potential area of innovation for brands to explore.

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- ◆ Research into new and innovative raw materials and technologies for development of new products
- ◆ Re-engineering of benchmarked products with introduction of innovative and technologically advanced raw materials based on project brief
- ◆ Review and/or develop specifications for new products for suitability with existing manufacturing systems and feasibility of other advanced technologies
- ◆ Ability to evaluate technical issues and provide recommendations for corrective actions
- ◆ Preparation and documentation of all experimental lab batches including the procedures and all the applicable test results based on the departmental SOP
- ◆ Work closely with the Technology / Engineering team to provide guidelines for proper scale-up from the lab bench to large scale production
- ◆ Actively participate in client / BDM / PD led discussions re project development
- ◆ Coach and mentor analysts and lab assistants as assigned
- ◆ Assist in various R&I related lab work as required

### **Skills and Qualifications:**

- ◆ Bachelor of Science Degree in Chemistry or related field
- ◆ Minimum of 5 years of experience in cosmetic formulation in the Cosmetic industry is required
- ◆ Experience in colour cosmetic formulation and development
- ◆ Excellent technical and practical knowledge of raw materials, their functions and application, and related technologies in the cosmetic field
- ◆ Excellent understanding and working knowledge of analytical instruments for conducting physical/chemical testing for cosmetic applications
- ◆ Good knowledge of manufacturing, quality, product evaluation and handling in a cosmetic industry and GMP environment

### **Other Skills Required:**

- ◆ Must have good colour matching skills
- ◆ Process and detail oriented with GMP and 5S awareness
- ◆ Excellent problem solving and troubleshooting skills
- ◆ Excellent communication, organization, and computer skills
- ◆ Must be a team player, creative, highly motivated and flexible with the ability to work in a fast paced environment

---

Interested applicants please submit your applications to: [wlu@cosmeticalabs.com](mailto:wlu@cosmeticalabs.com)

Please state that you are responding to a Job Ad posted on the SCC Ontario website. Only applicants that we are interested in interviewing will be contacted.

If you advise us of any special requirements, Cosmetica will do our best to provide accommodation for persons with disabilities.





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## NEWSLETTER POSTING DATES FOR 2016

Here are the dates for 2016 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 24th
- ◆ April 4th
- ◆ May 5th
- ◆ September 1st
- ◆ October 13th



(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>

## 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

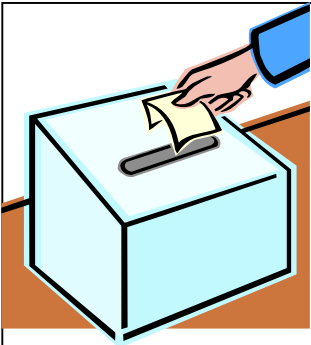
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## 2017 SCC Ontario Chapter Board Elections

It is time for elections of the 2017 SCC Ontario Chapter Board Members. We have two positions open for election this year: Chair-Elect and Treasurer.

**As a member of the SCC Ontario Chapter you will soon be sent specific instructions on how to cast your 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 10th, 2016 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

### 2016 SCC Ontario Chapter Board Members

Position	Name	Phone	Email
Chair	Shahin Kalantari	416-567-6572	shahink@davicenna.com
Chair-Elect	Saina Taidi	416-758-3700	staidi@apollocorp.com
Treasurer	Robert Castillo	416-740-5300	rob.castillo@univarcanada.com
Secretary	Monika Melao	416-741-9264	mmelao@ctc.ca

### 2016 Ontario Chapter Candidates

#### CHAIR ELECT

Candidate: Elizabeth Peitsis

Elizabeth Peitsis started her career in the Personal Care industry 10 years ago as a Senior Purchaser for Hunter Amenities. While employed at Hunter she learned various aspects of the business and implemented valuable process improvements. In 2009 Elizabeth was featured in a global magazine article for Cosmetics International; discussing the downturn within the market and the economic challenges. Through various roles and her passion for Cosmetics, Elizabeth has been able to evolve in her Career, currently employed by Azelis Canada Inc in the position of Sales Account Manager for Personal Care. In her free time Elizabeth enjoys hosting social events and is an outdoors enthusiast. She is especially grateful for the positive support from her friends and colleagues who have always encouraged her throughout her career. Elizabeth Peitsis has been an active Board Member for the Ontario Society of Cosmetic Chemists for the last 7 years where she has participated and planned several events.

#### TREASURER

Candidate: Robert Castillo

Robert Castillo is currently a Sales Manager at Univar Canada looking after The Personal Care & Pharmaceutical Industries. Prior to this Rob was an Account Manager calling on the Personal Care Industry for over 10 years and still has some direct sales & Product Management responsibilities. He had started out at CHEMCENTRAL in 2000 and quickly found a home in the Personal Care Industry and continued this role when they were acquired by Univar in 2007. It was at that time that he joined the SCC and is now also an active member of the board.





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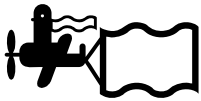
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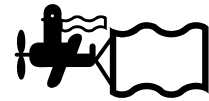
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# CALL FOR ADVERTISERS!!



The SCC Ontario Chapter would like to take this opportunity to thank all of our sponsors for the 2016 Newsletters. Now is the time to request advertising for the year 2017. We will be maintaining our rates for 2017. The rates as listed will include a minimum of 5 issues of our newsletter.

All fees will be due by December 31, 2016 and must be received in order to be included in our January 2017 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>

Please make all payments to the "SCC Ontario Chapter" and send to Vera Matovina.

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3 X 4	\$400.00
4 X 4	\$500.00
4 X 8	\$700.00
8 X 8	\$1200.00

## CONTACT

**Submit all advertising inquiries to:**

**[vera@plantpower.ca](mailto:vera@plantpower.ca)**



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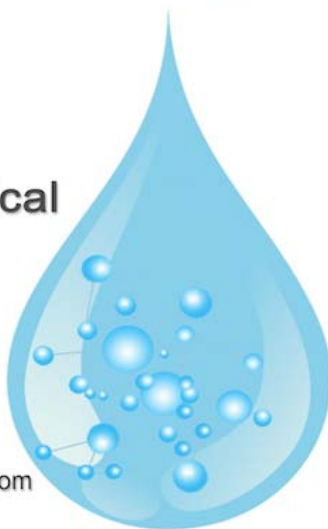
  
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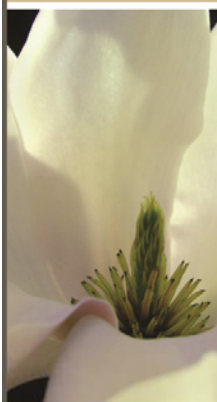


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## UPCOMING EVENTS

Oct 30th-Nov 2nd, 2016 Walt Disney World Resort, Fla	29th IFSCC Congress
November 10th, 2016 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting—Vito Cataldo, Lonza
November 25th, 2016 The Venetian, Vaughan ON	Holiday Dinner Dance
February 2nd, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
March 23rd, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
May 25th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
July 27th, 2017 Caledon Woods Golf Club, Bolton ON	17th Annual SCC Ontario Golf Tournament
September 19th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Education Day— TBA
November 9th, 2017 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting— TBA
November 24th, 2017 The Venetian, Vaughan ON	SCC Ontario 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 the University of Toronto, University of Waterloo, University of Guelph and McMaster University. The program began in 2003 and 14 students have received awards.



Interested students are invited to submit a brief one page outline to Dennis Zuccolin, Director of Scholarships at [dzucoli@maccosmetics.com](mailto:dzucoli@maccosmetics.com). 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.

Successful candidates are encouraged to attend SCC meetings, volunteer at events, collaborate with members of the Society, prepare a poster presentation, write an article for the newsletter and make a brief 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 \$140 US. Applications are available from your Executive Committee or on-line at [www.SCCOnline.org](http://www.SCCOnline.org).

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.

# SCC

Dedicated to the Advancement of Cosmetic Science

## 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. We have created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to the National office. Please visit the following website to make your changes;

<http://www.sconline.org>

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