
NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter

JANUARY 2015

Volume LXVI

2015 Ontario Chapter Officers

Chair

Dorothy Maraprossians
Unipex Solutions Canada Inc
235 Advance Blvd
Brampton, ON L6T 4J2
Ph: 905-453-7131
Fax: 905-453-0199
dorothy.maraprossians@unipex.com

Chair Elect

Shahin Kalantari
d'Avicenna Inc
80 Cornerbrook drive,
Toronto, ON. M3A 1H7
Ph: 416-567-6572
shahink@davicenna.com

Secretary

Monika Melao
Charles Tennant & Company
34 Clayson Rd.
Toronto, ON M9M 2G8
Ph: (416) 741-9264
Fax: (416) 741-6642
mmelao@ctc.ca

Treasurer

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

Directors Area II

Bart Maxon
Ph: 989-496-3035
Fax: 989-496-5508
bart.maxon@dowcorning.com

Perry Romanowski
Brains Publishing
Ph: 708-207-7642
Perry.romanowski@gmail.com

Past Chair

Andrea Boylan
Andicor Specialty Chemicals Corp.
590 Abilene Drive
Mississauga, ON L5T 2T4
Ph: (905) 795-0911
Fax: (905) 795-0912
andrea.boylan@andicor.com

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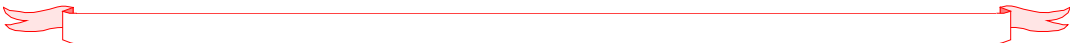
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SCC ONTARIO CHAPTER MEETING

Navigating "Mild" Personal Care Products
-Gayle Fortin

JANUARY 29TH, 2015



PRE-REGISTRATION IS REQUIRED FOR THIS MEETING

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 January 26TH, 2015.

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

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

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



“Navigating “Mild” Personal Care Products”

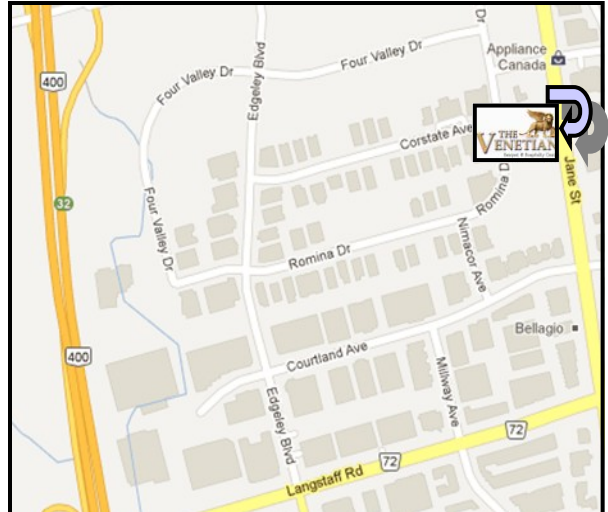
-Gayle Fortin

JANUARY 29TH, 2015

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:

Over the years we have seen the industry respond to the “Mild” Personal Care market as it has moved from niche to mainstream. For better or for worse, whether based on very real biological sensitivities or effective advertising “Mild” and all its variations is on the Personal Care product label to stay. For those involved in formulating, marketing or selling products for the “Mild” personal care industry, this presentation will touch on consumer expectations, definitions, testing, chemical options and general formulation strategies.

Bio:

Gayle Fortin

Sales & Business Development Manager, StarChem Canada

For 25 years, Gayle has been involved in chemical manufacturing and supply to the Personal Care and Household industries. Her previous background at Stepan Company where she held positions in R&D, QC, Manufacturing and Sales provided a strong background and network in Personal and Household chemical markets. Now at StarChem, Gayle leads the effort to bring the StarChem name and its strong standing in Specialty Chemicals, into the fore front as a chemical supplier to the Personal Care and Household markets. Gayle lives with her family in Barrie Ontario. She loves to snowboard, travel and dabbles in the fine arts.

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KODA DISTRIBUTION GROUP



18th Annual Holiday Dinner Dance November 28th 2014



The Holiday Dinner Dance was a huge success again this year with 232 people attending the event! All were in good cheer as we started the evening with the ever popular Antipasto Table. We changed up the entertainment this year with the addition of **Matt Dean**. His unique style DJing 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 **StarChem** for providing the table favours for the evening as well as the **SCC Ontario Chapter** for donating 80 gift cards to the prize table!

We would like to thank the following companies for generously donating to the prize table for the evening:

| | | |
|--------------------------------------|-------------------------------------|-------------------------------------|
| AIC | Forte Ingredient | Quadra Ingredients |
| Andicor Specialty Chemicals | Gattefosse Canada Inc. | Sigan Industries Inc |
| Aquatech | GE&B Marketing | Siltech |
| Belvedere International Inc. | Hunter Amenities | StarChem |
| Cambrian Chemicals | L. V. Lomas | Tempo Canada ULC |
| CCC Chemicals | Main Mast International Ltd. | Unipex Solutions Canada Inc. |
| Charles Tennant & Company | Nexeo Solutions | Univar Canada |
| Debro Chemicals | Nisim International | Vivachem Inc. |
| Evalulab | Pachem Distribution | Wayne Fretz Consulting |
| Evonik Goldschmidt Canada | Petro Canada | |



See all the Holiday Dinner Dance photos at:
<http://www.ontarioscc.org/gallery20.htm>
 Special thanks to **Wayne Fretz** for taking all the great pictures!!

Holiday Dinner Dance Toy Drive a Huge Success!!!

The SCC Ontario executive committee is proud to announce that this years "Toy Mountain" toy drive at the Holiday Dinner Dance was a resounding success! Over 150 toys were collected from attendees for an extremely worthy cause. The SCC board hopes to make it an annual event.



Giving Hope Today



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 entered them into a draw for a grand prize.

Show up and you can WIN!!

The SCC Ontario board is pleased to announce the addition of an "Attendance Draw" for all the meetings this year. The rules are easy....be a member, attend the meeting and you could win. That's it...simple. A members name will be drawn each meeting and as long as you are at the meeting you will get \$100!!!



The draw is a way for the board to show its appreciation for those members who attend meetings. It is one thing to be a member but another all together to show up, support, socialize and get educated. We feel we provide good value for your membership and encourage everyone to take advantage of it. See you there in 2015 and GOOD LUCK!



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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

A farewell message from the Chair.

Reflecting upon our chapter events and initiatives in 2014, I am proud to have served as Chair of the Ontario chapter of the SCC. We had three evening meetings which were quite diverse in topics. From the use of special delivery systems, to post-marketing surveillance of cosmetics as well as a fresh market perspective from Good Housekeeping magazine.



We also had a full day regulatory update meeting was held in March, covering the Canadian, US and European regulations. Another full day seminar was held in September at our yearly Education Day. The topic of the day was “Claim Substantiation and Skin Aging” which was presented by Dr. Nava Dayan.

As for social events, our annual golf tournament, held on a warm July day, was enjoyed by all who attended. The Holiday Dinner Dance in late November offered great food, great fun, and comeradery which helped to jump-start the festive season.

I am now pleased to introduce and offer my well wishes for our elected officers for 2015, photographed below with our Area Director, Perry Romanowski: (left to right) Dorothy Maraprossians (Chair), Rob Castillo (Treasurer), Monika Melao (Secretary) and Shahin Kalantari (Chair-elect). I am certain that 2015 will be another great year for our chapter!

Andrea Boylan

2104 SCC Ontario Chapter Chair





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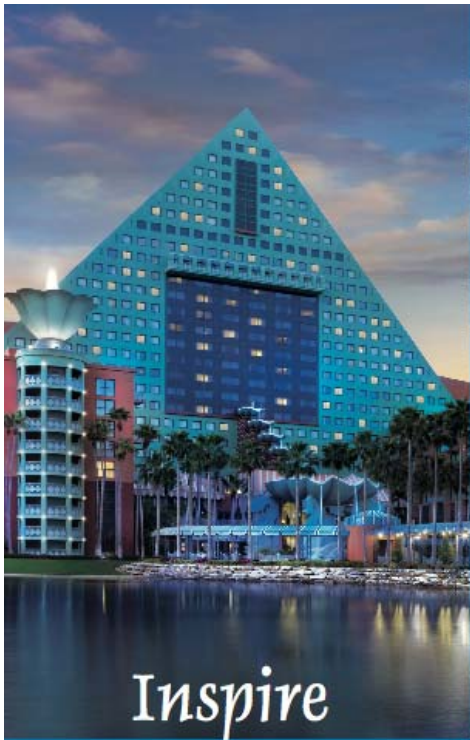
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Seneca



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.

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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!



Trivia (see page 19 for answers)

Pick the correct letter for each answer and use those letters to create the mystery word at the end.

- What Spanish artist said he would eat his wife when she died?
A: Goya
B: Dali
C: Picasso
D: Gaudi
- Which is the largest ocean?
H: Pacific
I: Atlantic
J: Indian
K: Arctic
- Who cut off Van Gogh's ear?
M: His Mistress
N: His Wife
O: Himself
P: Nobody
- When did the First World War start?
A: 1941
B: 1918
C: 1914
D: 1915
- Who said $E=mc^2$?
F: Newton
G: Faraday
H: Einstein
I: Tesla
- Name a famous detective who smoked a pipe and played the violin.
C: Miss Marple
D: Hercule Poirot
E: Sherlock Holmes
F: Sam Spade
- What colour is a panda?
M: black and white
N: Yellow-Brown
O: White
P: Black
- Who was the first president of America?
F: Thomas Jefferson
G: Abraham Lincoln
H: Theodore Roosevelt
I: George Washington
- Which planet is nearest the sun?
C: Mercury
D: Jupiter
E: Saturn
F: Mars
- How many Oscars did Alfred Hitchcock win?
A: 0
B: 2
C: 4
D: 1
- What language has the most words?
L: English
M: French
N: Italian
O: Mandarin

Involving chemical processes in living organisms:

Mystery Word:

| | | | | | | | | | | |
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Congratulations!

....to the winning table at our November meeting comprised of Janice Cukier, Monika Melao, Monica Cariati, Anna Kaplan, Kippy Partridge and Amelia Walker.

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How Do Cosmetic Raw Materials Get Their Names?

by PERRY ROMANOWSKI



I must confess. One of my favorite things about being a chemist is getting to say long words and knowing what they mean. I loved learning the IUPAC system for naming chemicals.

That's why I found ingredient lists on shampoos & conditioners baffling. I didn't know what most of the chemicals were. They were similar to IUPAC terms, but not quite. It turns out that the cosmetic industry doesn't use the IUPAC naming system. Instead, they follow their own system as laid out in the International Nomenclature of Cosmetic Ingredients (INCI) dictionary. This volume is produced by the main cosmetic industry trade group called the Personal Care Products Council (PCPC, formerly the CTFA but we'll save that for another time).

List of Ingredients

The first thing to know about cosmetic ingredients is the ingredient list. In the United States, every personal care and cosmetic product is supposed to have their ingredients listed. In the business, we called it the LOI (list of ingredients). Any ingredient above 1% is required to be listed in order of concentration (by weight). At 1% or below, the ingredients can be listed in any order. Typically, preservatives and dyes are listed at the end. In a future post, we'll show how this labeling requirement can help you formulate new products. Any ingredient above 1% is required to be listed in order of concentration (by weight). To be proper, companies are supposed to follow the naming conventions as laid out in the INCI.

Cosmetic Ingredient Naming Conventions

While many chemical names in the INCI seem arbitrary, there are some standard rules. The following will help you make heads or tails out of the ingredients on most LOIs. We can't list all the conventions here, but we'll point out the major ones and give examples.

Common Names

When they first came up with the INCI (originally called the CTFA Cosmetic Ingredient Dictionary) in 1973, many cosmetic ingredients already had names. These common names were incorporated into the dictionary even though they didn't follow any specific naming rules. Therefore, we use Glycerin instead of the more accurate Glycerol and Menthol instead of (1R, 2S, 5R)-2-isopropyl-5-methylcyclohexanol. Common names are also used for various natural ingredients like Lanolin and Beeswax.

Stem Names

Probably the most important thing to learn about naming cosmetic ingredients is to memorize this list of hydrocarbon stem names. It's a bit different than the IUPAC. So, if you have a 16-carbon alcohol, you call it Cetyl Alcohol instead of Hexadecanol. For an 18-carbon acid, you would use Stearic Acid instead of Octadecanoic acid.

Mixtures

You'll run into names like Cocamidopropyl Betaine that don't match any of the stem names. This is because the raw material uses coconut oil as a starting raw material. In these cases, you use an abbreviation of that starting material. Other ones you might see include Palm Kernel oil, Soybean oil and Sunflower oil. In a future post, we'll show the fatty acid distribution of these materials.

Continues on page 22



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Tempo Canada and Lonza Announce Exclusive Distribution Agreement for the Preservatives, Actives and Hygiene Product Lines

Lonza and Tempo Canada proudly announce the exclusive agreement to distribute Lonza's line of preservatives and protection systems, the anti-dandruff, biotechnological and natural actives for the Beauty Care market, and the registered biocides, preservatives and antimicrobial systems for use in disinfectants, sanitizers, institutional and household cleaning applications. These product lines will be available to Tempo's customers in Canada, effective 1 December 2014.

Recognized as a global leader in hygiene, Lonza has unequaled market expertise in the development of a broad range of preservation and protection solutions, as well as an extensive portfolio of EPA registered disinfectant formulated products and active ingredients for use in hospitals, veterinary clinics, restaurants, food processing plants, schools, office buildings, athletic facilities and institutions.

Lonza's competence also spans across the areas of advanced solutions to care and protect the skin and hair including bactericide-fungicide anti-dandruff products, distinctive active ingredients from novel sources, plant-derived actives and proteins.

"We have selected Tempo Canada for this strategic alliance because of their impressive sales and technical expertise, action orientation and customer focus. We expect this partnership to immediately strengthen Lonza Consumer Care in the various markets, and enable growth opportunities for our customers," said Michael DeGennaro – NAFTA Vice-President Sales Consumer Care of Lonza.

In describing this new agreement, Hank DeWolf – President of KODA Care – said: "We are very excited about the opportunity to extend a highly competitive portfolio of ingredients to our customers in fields as important as preservation, value-added hair and skin care and hygiene. We are equally proud to do so in partnership with one of the market leaders."

About KODA Care:

KODA Care (DeWolf, Glenn, GMZ Care and Tempo Canada) is the leading network of technical service and market-oriented distributors of specialty chemicals to the Personal Care, Color Cosmetics and HI&I markets in North America, specializing in delivering technologically advanced formulating solutions that are competitively aligned with today's market trends and tomorrow's industry forecast.

For more information contact:
Hank DeWolf
President – KODA Care
hdewolf@kodadistribution.com
401-434-3515

Press contact:
Julia Hernandez
Vice President of Marketing – KODA Care
jhernandez@tempo.ca
954-614-1902

Industry News (continued)

Tempo Canada ULC

Tempo Canada ULC is very pleased to announce the addition of **Ms Isabelle Bernier** as the new account manager for Life Sciences in their Montreal office! Isabelle has over 10 years experience in distribution sales, which includes the industrial, nutrition and pharmaceutical industries but primarily in recent years has been focused on Personal Care. Isabelle will be responsible for covering the entire Quebec territory for Life Sciences.

Isabelle's contact details are as follows;

Tempo Canada ULC

7575 Transcanada

Suite 500

St-Laurent, QC H4T 1V6

514.894.2223

Ibernier@tempo.ca

"As Quebec is an extremely important market for Tempo Canada we are very happy to have Isabelle aboard!"- Hank DeWolf - President - KODA Care

Trivia Answers (see page 12)

- | | | |
|----------------|-------------------------|-------------------------------|
| 1. B:Dali | 5: H: Einstein | 9- C: Mercury |
| 2- I: Atlantic | 6-: E: Sherlock Holmes | 10-A: 0 |
| 3- O: Himself | 7- M: Black and white | 11-L: English |
| 4: C: 1914 | 8- I: George Washington | 12. Mystery Word: Biochemical |



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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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Derivatives

The INCI tries to follow established conventions from other systems. For example, when you want to name an ether, you take the stem names from both fatty acids and add the term ether. Thus, a molecule made with a 14-carbon and 16-carbon chains connected by an oxygen would be called Cetyl Myristyl Ether. An ester of the same molecules would be Cetyl Myristate.

Nitrogen Containing

Hydrocarbons that contain nitrogen are amides and have the phrase included in their name. Therefore, Lauramide is used to describe a 12-Carbon molecule (Lauryl) that has a NH₂ group on its end. If the Nitrogen has other hydrocarbons attached, those are also named. So, Lauramide DEA would be that same 12-Carbon molecule attached to a Nitrogen which also has Ethyl groups attached to it. When these Nitrogen containing compounds are turned into salts, the suffix “-monium” is added. So, a 16-Carbon attached to a Nitrogen with three methyl groups is Cetrimonium Chloride.

Polymers

A variety of conventions are used to name polymers. For Nitrogen containing polymers, the term “Polyquaternium” is used. There is also a number associated with the ingredient but it doesn't refer to anything chemically. It just happens to be the order in which the material was registered. Other polymers use common abbreviations. PEG is Polyethylene Glycol. PPG is Polypropylene Glycol, etc. Then a number is included to refer to the moles of ethoxylation in the polymer.

Silicones

For silicone containing materials, terms like Dimethicone, Cyclomethicone and amodimethicone are used. Whenever you see some form of these words in a chemical name, you know there is some silicone in it.

Colorants

Ten years ago, you used to see the abbreviation FD&C in front of many chemical colorants. Today, however, the INCI has adopted a simplified method for naming colors. They just list the color followed by a number (e.g. Yellow 5). This doesn't tell you anything about the chemical composition but you can get the structure by looking it up in the INCI. An alternative naming system is the EU one in which each colorant is assigned a 5-digit chemical index (CI) number. Yellow 5 in the EU is called CI 19140.

Miscellaneous Rules

There are many other rules that you'll have to learn over time. To give you a flavor here are a few more.

- 1 Water is just called Water. (Not deionized or purified or anything else. Just water)
- 2 Fragrance is called Fragrance no matter what compounds are used to make it. This is changing but for now, it's correct.
- 3 Botanicals use the Latin name of the plant or part plus the term Extract. So, if you use an ingredient taken from the leaf of a lemon, the ingredient is called Citrus Medica Limonum (Lemon) Leaf Extract.

Conclusion

The naming of raw materials in cosmetics share some characteristics with the IUPAC system you learned in Organic Chemistry. However, there are many differences and for some things it is impossible to determine the chemical structure from just the name. For more information, your best bet is to go to your company's library (or your city's) and take a look at the latest version of the INCI.



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NEWSLETTER POSTING DATES FOR 2015

Here are the dates for 2015 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 17th
- ◆ February 18th
- ◆ May 7th
- ◆ August 27th
- ◆ October 15th



(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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ahalasz@rogers.com

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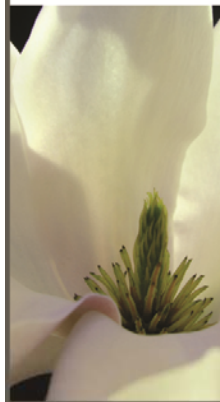
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UPCOMING EVENTS

| | |
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| January 29 th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—Navigating “Mild” Personal Care Products -Gayle Fortin |
| March 11th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| May 28th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| July 21st, 2015 Caledon Woods Golf Club, Bolton ON | SCC Ontario 15th Annual Golf Tournament |
| September 17th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting— Education Day |
| November 5th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| November 27th, 2015 The Venetian, Vaughan ON | SCC Ontario 19th annual Holiday Dinner Dance |

ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS



The support of Cosmetic Science Education and Research are central to the goals of the Society of Cosmetic Chemists (SCC). The Ontario Chapter has developed a Scholarship Program available to Canadian University, College or High School students. In the past, the \$1000.00 award has been presented to students from the University of Toronto, University of Waterloo and University of Guelph. The program began in 2003 and 14 students have received awards in the past.

The program is open to any student planning to complete research related to cosmetic science. Interested students are invited to submit a brief, one page research outline to Dennis Zuccolin, Director of Scholarships at 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/or make a brief oral presentation on their research at a chapter meeting.

NORTHERN HIGHLIGHTS STAFF

| | | | |
|--------------|-----------------------------------|---------------------------------------|--------------------|
| PUBLISHER: | ROB QUINLAN TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | robq@tempo.ca |
| EDITOR: | MICHELE LARRY TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | michelel@tempo.ca |
| ADVERTISING: | VERA MATOVINA | 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.

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

FEBRUARY 2015

Volume LXVII

2015 Ontario Chapter Officers

Chair

Dorothy Maraprossians
Unipex Solutions Canada Inc
235 Advance Blvd
Brampton, ON L6T 4J2
Ph: 905-453-7131
Fax: 905-453-0199
dorothy.maraprossians@unipex.com

Chair Elect

Shahin Kalantari
d'Avicenna Inc
80 Cornerbrook drive,
Toronto, ON. M3A 1H7
Ph: 416-567-6572
shahink@davicenna.com

Secretary

Monika Melao
Charles Tennant & Company
34 Clayton Rd.
Toronto, ON M9M 2G8
Ph: (416) 741-9264
Fax: (416) 741-6642
mmelao@ctc.ca

Treasurer

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

Directors Area II

Bart Maxon
Ph: 989-496-3035
Fax: 989-496-5508
bart.maxon@dowcorning.com

Perry Romanowski
Brains Publishing
Ph: 708-207-7642
Perry.romanowski@gmail.com

Past Chair

Andrea Boylan
Andicor Specialty Chemicals Corp.
590 Abilene Drive
Mississauga, ON L5T 2T4
Ph: (905) 795-0911
Fax: (905) 795-0912
andrea.boylan@andicor.com

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- *HOW TO PREVENT CONTAMINATION OF COSMETIC PRODUCTS* page 8,12
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SCC Continuing Education Course

"Cosmetic Formulations"
-Mark Chandler

WEDNESDAY MARCH 11TH, 2015

PRE-REGISTRATION IS REQUIRED FOR THIS MEETING

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 March 9TH, 2015.

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

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

Event Registration



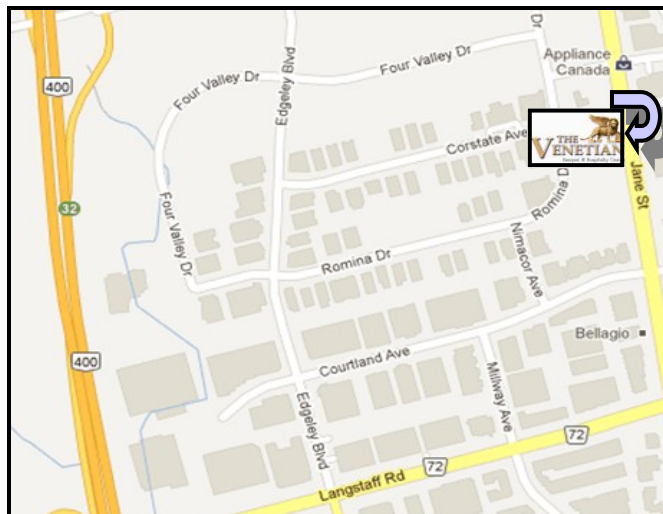
SCC Continuing Education Course

“Cosmetic Formulations”

-Mark Chandler

WEDNESDAY MARCH 11TH, 2015

| | |
|------------------|--|
| Location: | The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960) |
| Fees: | \$75 for SCC Members (Pre-Registered) Non-Members \$130 (Pre-Registered) \$30 for Students (pre-Registered) |
| Schedule | 9am– Registration Noon– Lunch (provided) 4:30pm– Adjourned |



COURSE OUTLINE

Who should take this course: Anyone interested in the mechanics of designing a cosmetic formulation. The course will be beneficial to beginning and seasoned scientists, whether in formulation, quality control, or claims testing. NOTE: A certificate will be awarded for the completion of this day course.

Cosmetic Raw Materials Overview

Emulsions

- Emulsion Theory
- Emulsifier Selection and Use
- Skin Care Emulsion Examples
 - Face
 - Eye
 - Hand
 - Body

Special Emulsion Categories

- Sunscreens
- Liquid Foundations
- Antiperspirants

Cleansers

Surfactant Selection and Use

Cleanser Formulation

- Cleaning
- Foaming
- Rheology
- Solubilization
- Conditioning

Cleanser Examples

- Shampoo
- Body Wash
- Facial Wash

Conditioners

- Formulation Basics
- Examples

Sticks

- Antiperspirants
- Lipsticks

Gels

- Hair Styling

Oils

- Bath Oils

Testing

- Stability
- Toxicity
- Preservation
- Efficacy/Claims

Preservation Basics

Enhancing Efficacy and Consumer Appeal

Mark Chandler is the President of ACT Solutions Corp. www.ACTSolutionsCorp.com, a formulation consulting firm focusing on Adaptive Aesthetic Design™, Advanced Emulsion Solutions, and Formulating for Efficacy™. He is also a Prestige Clinical Instructor at the University of Toledo – College of Pharmacy and Pharmaceutical Sciences. Mark is in his 30th year in the personal care and pharmaceutical industry, most recently serving as Skin Care Applications Manager for Croda Inc. For 15 years Mark has taught the Society of Cosmetic Chemists (SCC) Cosmetic Formulations course, in addition to instructing on emulsions for the Center for Professional Advancement and Cosmetic Raw Materials and Low Energy Emulsification courses for the SCC. Mark has presented in more than a dozen countries located in North America, South America, Europe, Asia and Australia, and has written numerous technical articles and textbooks chapters, and has 3 patents.

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A welcome message from the Chair.....

Well, another year has arrived. I hope that you have all enjoyed the holiday season, which at this point seems so far away.

It will be a busy year for me, as I am taking on this position of Chair of the Ontario Chapter. I have certainly done this before, but that does not make it any less challenging. I am again working with a fantastic group of people on the board, who are ready to help out at any time. We have many events planned for you. We already had our first meeting of the year, which was perfectly timed in the middle of the only snow storm of this winter, so far (and let's keep it this way).



In addition to our educational evenings, we are also preparing for 2 full educational days (March and September) as well as our social events that are always so well enjoyed. As always, we strive to bring education and fun to our members, and we welcome your suggestions and feedback.

Your 2015 elected chapter officers are: Shahin Kalamtari as Chair-Elect, Monika Melao as Secretary and Rob Castillo as Treasurer. I am certain that we will have a fantastic year. I take this time to wish everyone a healthy, happy and successful 2015 and I look forward to seeing you all at all of our educational, social and festive events throughout the year.

Keep in mind that as we have re-introduced our attendance draw, it may pay to attend an event!

All the best

Dorothy Marapressians

Chair, SCC, Ontario Chapter



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ATTENDANCE DRAW!!

This year we have added a special feature to our meetings. 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 and as long as that lucky member is in attendance they get \$100!!!



At the January 29th meeting **Sharon Robertson's** name was drawn but unfortunately she was not in attendance so the money goes back in the hat. Good luck to everybody at the next meeting!

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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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How to Prevent Contamination in Cosmetic Products

by PERRY ROMANOWSKI

A recent article about scientists discovering bacteria living in hairspray provides a good example of why cosmetic products need to be preserved. Microbes can grow almost anywhere! And these tiny organisms bring with them some distasteful product changes or even disease. As a cosmetic chemist it's up to you to formulate properly and keep these invaders at bay. You typically do that by adding preservatives to your formulas. Unfortunately, you'll have to know more than just the science as preservatives are some of the most highly regulated and restricted ingredients you will use.

Why you need cosmetic preservatives

There are two primary reasons you need preservatives.

1. To stop microbes from spoiling your products.
2. To stop microbes from causing disease.

The microbes that can infect your formulas primarily include bacteria, mold, and yeast. In small quantities they don't represent much of a problem but when they multiply, look out. Bacteria like *Pseudomonas* can cause all kinds of health problems including skin and eye infections, toxic shock, strep throat, and even food poisoning. Yeast like *Candida albicans* can cause thrush. And many other bacteria can cause your products to smell awful, change color or otherwise break down. (This is what stability testing is for).

The following is a list of common preservatives used in cosmetic and personal care products. As a future (or current) formulator, you will undoubtedly be using many of them.

Parabens

Parabens are the most commonly used preservatives. They are derivatives of p-hydroxybenzoic acid and go by names like Methylparaben, Propylparaben, and Butylparaben. They are typically supplied as powders and can sometimes be difficult to incorporate into a system due to the water solubility limitations. They are effective against a broad spectrum of bacteria and fungi. They do have pH limitations and are not effective against all microbes so you usually will need an additional preservative.

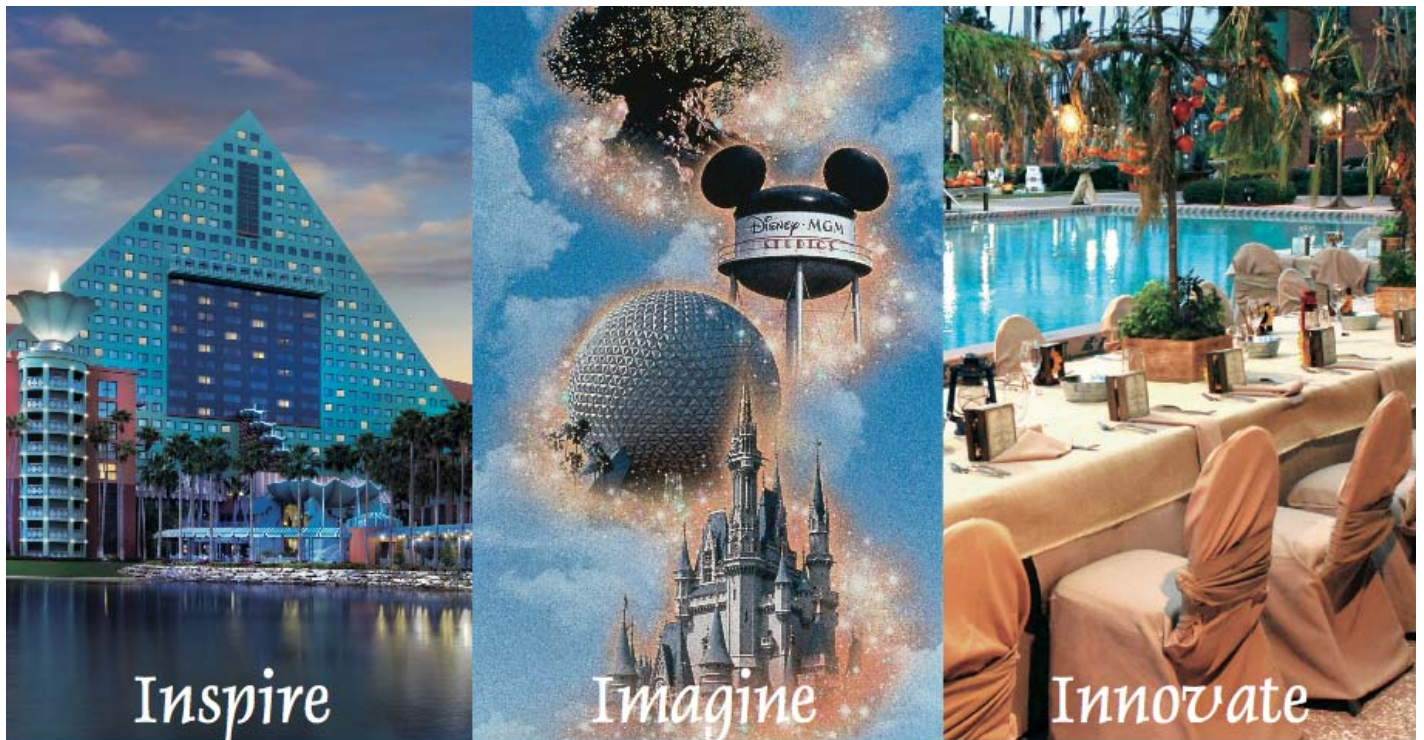
Formaldehyde donors

Formaldehyde derivatives are the next most common preservative. These compounds interfere with membrane proteins which kills microbes. They are effective against bacteria, fungi, and mold. Bad press and real safety concerns have led cosmetic chemists to stop using formaldehyde. Instead ingredients that dissociate into formaldehyde when put in a water solution are used. These are compounds like DMDM Hydantoin, Imidazolidinyl Urea, and Gluteraldehyde. They are most often used in surfactant systems.

Phenol derivatives

Phenol derivatives have been used in cosmetics for many years and can be effective against a range of microbes. Unfortunately, they are not as effective as the previous ingredients so their use is limited. The most common examples is Phenoxyethanol.

Continued on page 12



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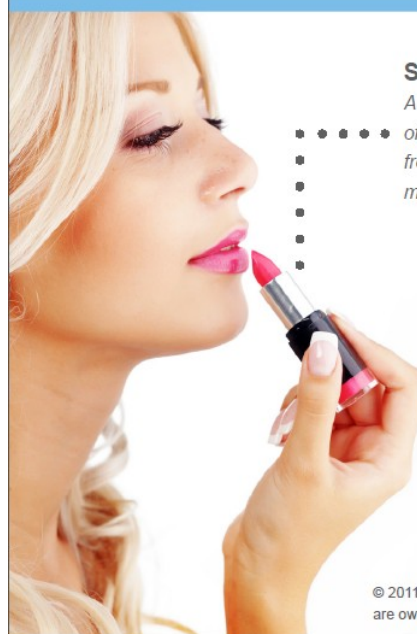
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Quats

Compounds that contain nitrogen and have a positive charge when placed in solution are called quaternary compounds (or quats). Many of them demonstrate an ability to kill microbes. This include ingredients like Benzalkonium Chloride, Methene ammonium chloride, and Benzethonium chloride. Their cationic nature makes them less compatible with anionic surfactants which limits their application & use.

Alcohol

Ethanol is a great preservative but you need to use it in high levels and it faces significant environmental restrictions. Other compounds like benzyl alcohol, dichlorobenzyl alcohol, and even propylene glycol all have some anti-microbial effect. In lower levels, these compounds are less effective at preserving products.

Isothiazolones

Synthetic compounds like Methylchloro- Isothiazolinone and Methyl-Isothiazolinone are effective at incredibly low levels. They have been shown to work at a wide range of pHs and in many different formulas. Their use has been stymied however, by at least one study that suggested it could cause skin sensitization.

Organic Acids & Others

Various other compounds are used as preservatives but all face some limitations not experienced to the same extent as the previous ingredients discussed. Some of the most important include Sodium Benzoate, Chloracetamide, Triclosan, and Iodopropynyl Butylcarbamate. Pyridine derivatives like Sodium pyrithione and zinc pyrithione are used to kill the bacteria that causes dandruff.

Why cosmetic preservatives are vilified

More than any other ingredient, preservatives are most often called out as the worst ingredients you can use in a formula. Even people who know nothing about chemistry have likely heard about the “evil” parabens and formaldehyde.

Preservatives are designed to kill cells. That’s why they are effective. Unfortunately, that’s also why they are potentially hazardous. They don’t easily discriminate between good human cells and bad microbial cells. But ultimately, the risk from using preservatives is significantly lower than that of using unpreserved cosmetics. There are safe levels of “toxic” chemicals. All chemicals can be deadly if you’re exposed to a high enough level. How many people die from water exposure (e.g. drowning)?

Remember, it’s the dose that matters!

To be sure, cosmetic science research is ongoing in the field of preservatives since many things previously deemed safe have been reclassified as hazardous. Suppliers who can come up with even safer preservatives will likely make a lot of money. Hopefully, they’ll do it soon but there do not appear to be any promising materials on the horizon.



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Trivia (see page 20 for answers)

1. What continent has the fewest flowering plants?
2. What element begins with the letter K?
3. What national holiday in Mexico sees people munching on chocolate coffins and sugar skulls?
4. What was the first planet discovered using the telescope in 1781?
5. How many days is a cat in heat?
6. How many US States does Mexico Border?
7. What single state has the longest shoreline in the USA?
8. What colour is Abysinth?
9. What flavour is Cointreau?
10. Which country has the most tractors per capita, Canada, Iceland or Japan?
11. Who averaged one patent for every 3 weeks of his entire life?
12. What detergent slogan got its mileage out of 'ring around the collar'?
13. What explorer introduced pigs to North America?
14. How many instruments does a band need to be considered a "Big Band"?
15. What word is defined in physics as "the combination of a nuclei to form a larger more dense nucleus"?
16. What is largest, most dense of the 4 rocky planets?
17. What ingredient in fresh milk is devoured by bacteria to make it go 'sour'?
18. What is the only American state beginning with the letter 'P'?
19. What sport did Michael Jordan play?
20. What was Michael Jackson's first record label?
21. What fictional bear thought he had a 'very little brain'?
22. What kind of animal is a 'skink'?
23. What is the name of Oprah Winfreys production company?
24. What animal has the longest gestation period?
25. How many squares on a standard chess board?
26. According to the bible, how long did Methuselah live?
27. What is the only fruit that has its seeds on the outside?
28. What super hero worked for the Daily Bugle?
29. What makes up 1/3 of a Taiwanese funeral procession?
30. In Wisconsin, when is it ILLEGAL to fire you gun?
31. In Massachusetts, what is it illegal to have inside a bathroom?

Congratulations!

....to the winning table at our January meeting comprised of Liz Peitsis, Vera Matovina, Mary Seifi, Saina Taidi, Lannie Garcia and Andrea Boylan.



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Trivia Answers (see page 15)

1. Antarctica
2. Krypton
3. The Day of the dead
4. Uranus
5. 5
6. 5
7. Michigan
8. Green
9. Orange
10. Iceland
11. Thomas Edison
12. Wisk
13. Christopher Columbus
14. 10
15. Fusion
16. Earth
17. Lactose
18. Pennsylvania
19. Basketball
20. Motown
21. Winnie the pooh
22. Lizard
23. Harpo (Oprah backwards)
24. Elephant, approx 2 years
25. 64
26. 969 years
27. Strawberry
28. Spiderman
29. Strippers
30. During your wife's orgasm
31. A light switch

Did You Know?

Black potatoes

Chances are you'll see sodium acid pyrophosphate or sodium bisulfite listed on the label of a package of frozen French fries. They're added to deal with that bane of potato lovers, the dark, gray tuber. This discoloration is due to a chemical reaction between iron and chlorogenic acid, natural components of a potato. In a freshly cooked potato these form a colorless complex which then turns gray on exposure to oxygen in the air. The color is unappetizing but has no detrimental effect on health or nutritional value. Sodium acid pyrophosphate and sodium bisulfite both bind iron and prevent it from reacting with chlorogenic acid. Some people are allergic to sulfites and have to be aware of their possible presence in French fries.

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NEWSLETTER POSTING DATES FOR 2015

Here are the dates for 2015 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 17th
- ◆ February 20th
- ◆ May 7th
- ◆ August 27th
- ◆ October 15th



(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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UPCOMING EVENTS

| | |
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| March 11th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—SCC Continuing Education Course- <i>“Cosmetic Formulations”</i> -Mark Chandler |
| May 28th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| July 21st, 2015 Caledon Woods Golf Club, Bolton ON | SCC Ontario 15th Annual Golf Tournament |
| September 17th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting— Education Day |
| November 5th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| November 27th, 2015 The Venetian, Vaughan ON | SCC Ontario 19th annual Holiday Dinner Dance |

ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS



The support of Cosmetic Science Education and Research are central to the goals of the Society of Cosmetic Chemists (SCC). The Ontario Chapter has developed a Scholarship Program available to Canadian University, College or High School students. In the past, the \$1000.00 award has been presented to students from the University of Toronto, University of Waterloo and University of Guelph. The program began in 2003 and 14 students have received awards in the past.

The program is open to any student planning to complete research related to cosmetic science. Interested students are invited to submit a brief, one page research outline to Dennis Zuccolin, Director of Scholarships at 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/or make a brief oral presentation on their research at a chapter meeting.

NORTHERN HIGHLIGHTS STAFF

| | | | |
|--------------|-----------------------------------|---------------------------------------|--------------------|
| PUBLISHER: | ROB QUINLAN TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | robq@tempo.ca |
| EDITOR: | MICHELE LARRY TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | michelel@tempo.ca |
| ADVERTISING: | VERA MATOVINA | ph: 416-766-1254 | vera@plantpower.ca |

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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.

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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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MAY 2015

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2015 Ontario Chapter Officers

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Dorothy Maraprossians
Unipex Solutions Canada Inc
235 Advance Blvd
Brampton, ON L6T 4J2
Ph: 905-453-7131
Fax: 905-453-0199
dorothy.maraprossians@unipex.com

Chair Elect

Shahin Kalantari
d'Avicenna Inc
80 Cornerbrook drive,
Toronto, ON. M3A 1H7
Ph: 416-567-6572
shahink@davicenna.com

Secretary

Monika Melao
Charles Tennant & Company
34 Clayton Rd.
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Fax: (416) 741-6642
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Treasurer

Robert Castillo
Univar Canada
64 Arrow Rd.
Weston ON, M9M 2L9
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Fax: (416) 740-2227
rob.castillo@univarcana.com

Directors Area II

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Past Chair

Andrea Boylan
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590 Abilene Drive
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Ph: (905) 795-0911
Fax: (905) 795-0912
andrea.boylan@andicor.com

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SCC ONTARIO CHAPTER MEETING

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THURSDAY MAY 28TH, 2015

PRE-REGISTRATION IS REQUIRED FOR THIS MEETING

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 25TH, 2015.**

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

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

“A novel, pure silver antimicrobial with highly porous and micro-sized particles”

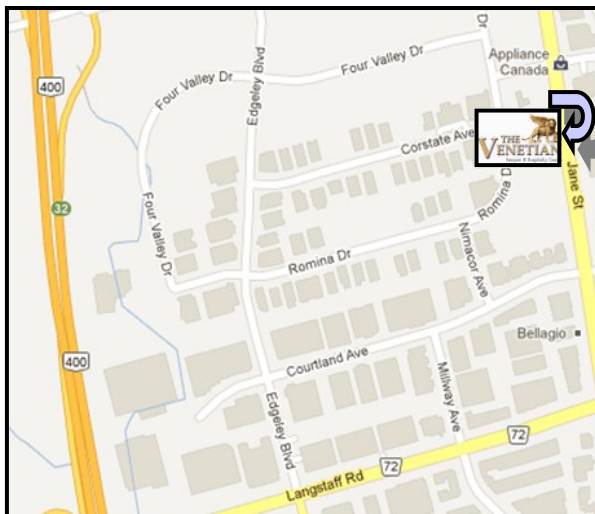
-Karl Richter

THURSDAY MAY 28TH, 2015

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. Adjourment

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



Abstract:

Silver is well-known for its broad spectrum antimicrobial efficacy. The antimicrobial mode of action of silver is well known and is attributed to silver ions. There are numerous forms of silver including silver salts, silver zeolites, silver glass ceramics, nanosilver / colloidal silver suspensions and more recently a pure silver additive consisting of highly porous and micronized silver particles. Although each silver technology relies on silver ions the delivery system, antimicrobial sustainability, effectiveness and safety of each technology varies greatly. In cosmetics, skincare and oral care applications there are several key advantages of using a pure silver additive that consists of large micronized and porous silver particles.

The presentation will involve an overview of:

- ▶ silver additives
- ▶ the antimicrobial mode of action of silver
- ▶ The advantages of using a pure silver additive with micronized and porous silver particles:
 - ◆ no skin penetration, no negative impact on skin flora, long-lasting antimicrobial action on top of the skin, natural product preservation, color stability
- ▶ efficacy studies
- ◆ acne, dermatitis, skin recovery after skincare treatments, toothpaste, wound care
- ▶ preservative effects
- ▶ discussion on skin flora

Bio:

Karl Richter. Systems Design Engineering Degree from the University of Waterloo, Ontario, Canada (2000). Lives in the Toronto, Ontario, Canada area

Scholarship Student Poster Presentation at May Meeting

The SCC Ontario board is pleased to have our most recent scholarship student, Marlena Whinton, give an update on her current research at our upcoming meeting. The summary of the presentation is below.

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.¹ 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).^{2,3}

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

Research conducted during my PhD studies focused on the development of silicone microemulsions containing non-volatile silicone oils and the polymerization of these liquids into self-supporting nano-structured elastomers and hydrogels.¹ Surprisingly, certain surfactants allow the very slow growth of titania nanoparticles within these microemulsions (Figure 1). 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.

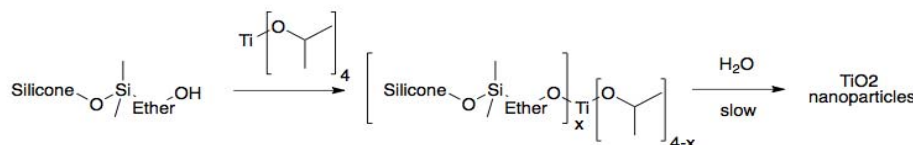


Figure 1: Synthesis of Siloxane PEG-titanium alkoxide compound and hydrolysis to titanium dioxide.

Nano-structured elastomers/hydrogels could be useful towards the delivery of active ingredients, while also offering UV protection. My current research is focused on optimizing the surfactant to permit control of in-situ formation of TiO₂ 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 TiO₂ particles were characterized using transmission electron microscopy and it was found that the structure and 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 TiO₂ particles could allow for the creation of films with targeted UV absorption properties. Also of interest will be the degree to which the titania particles are constrained within the gels.

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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Industry News

KODA Distribution Group Acquires Unipex Solutions Canada

KODA Distribution Group (KDG) and the Unipex Group have announced KDG's acquisition of Unipex Solutions Canada, a leader in specialty chemicals distribution in Canada. The acquisition exemplifies KDG's strategy of focused growth in specialty chemicals and reinforces its position as the premier Specialty Chemical Distributor in North America.

Unipex Solutions Canada:

Unipex Solutions Canada, headquartered in Quebec, Canada, is a division of the Unipex Group. They are a leader in the Canadian market, with a strong focus on technical sales and support, along with exceptional customer service and commitment to EH&S. Unipex Solutions Canada is a member of the CACD. Patrice Barthelmes, President and CEO of Unipex Group declares "First, I would like to acknowledge Jean-Pierre Pelchat and Bernard Vinet for their leadership and commitment and heartfully thank each single member of the team who did an excellent job along the years. KDG is inheriting a group of highly qualified and professional people. Unipex Solutions Canada has reached a stage where KDG will be a perfect partner for its future and it is the right time for our Group. "

Geographical Reach:

Frank Bergonzi, CEO and President of KDG states, "Unipex is a perfect fit for us. Our strategy has always encompassed growth geographically, and this acquisition expands our reach in the Canadian market. Along with Tempo, we can now service a broader customer base".

Jean-Pierre Pelchat, GM of Unipex Solutions Canada, will continue to lead this autonomous, Canadian division and report to Frank Bergonzi. Mr. Pelchat stated, "Unipex Solutions Canada's energetic and ambitious staff is very excited to become part of KDG, as we share the same values and work ethic. This strategic move ensures the continuous growth of our principals' market share in the Canadian market."

ABOUT KODA DISTRIBUTION GROUP

KODA Distribution Group (KDG) is the leader in specialty chemical distribution in North America. KDG is organized around industry verticals in the U.S. and Canada in the following focus markets: CASE (Coatings, Adhesives, Sealants & Elastomers), Specialty Ag, CARE, Life Sciences, and Industrial (Plastics, Lubes & Metalworking). Each industry vertical shares similar approaches to their markets: deep technical expertise and market knowledge; a service platform that includes marketing and product management; a network of technical centers (application labs) to support customers; a focus on customer intimacy; and an absolute devotion to customer service. KDG is headquartered in Stamford, CT.

For more information, please contact Terry Mullin, Marketing Manager, at tmullin@kodadistribution.com or at 203.883.1477. www.kodadistribution.com

About Unipex Group

Unipex Group is a privately held company specializing in the development, production, marketing and distribution of active ingredients, specialty chemicals and other chemical products in the cosmetics, pharmaceutical, nutrition and industrial sectors. It is also active in the areas of vigilance and consumer testing through its Iris division. Its distribution and marketing network serves more than 50 countries in North America, Europe and Asia. It counts six offices across North America and Europe. Unipex Solutions Canada is the wholly-owned subsidiary of Unipex Group responsible for the North American distribution activities of the Unipex Group in the cosmetics, pharmaceutical, nutrition and industrial sectors. Additional information regarding the Unipex Group is available on its website www.unipex.com.

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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.

Download an application: http://www.sconline.org/website/about_scc/member_application.htm

SOCIETY OF COSMETIC CHEMISTS ONTARIO CHAPTER SCC

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

SCC 15th Annual Golf Tournament

Tuesday July 21st, 2015



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):

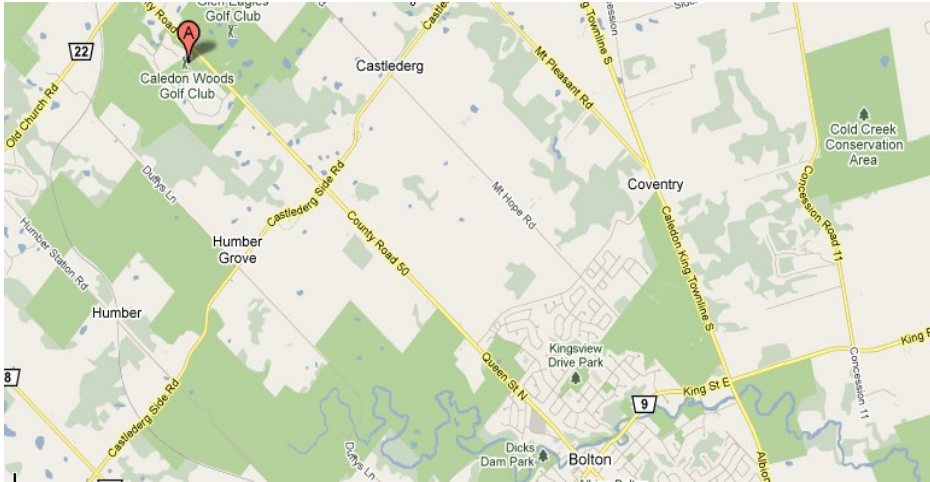
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| | HOST: _____ Golf/Dinner Package <input type="checkbox"/> Golf + lunch <input type="checkbox"/> Dinner-only <input type="checkbox"/> |
| | GUEST: _____ Golf/Dinner Package <input type="checkbox"/> Golf + lunch <input type="checkbox"/> Dinner-only <input type="checkbox"/> |
| | GUEST: _____ Golf/Dinner Package <input type="checkbox"/> Golf + lunch <input type="checkbox"/> Dinner-only <input type="checkbox"/> |
| | GUEST: _____ Golf/Dinner Package <input type="checkbox"/> Golf + lunch <input type="checkbox"/> Dinner-only <input type="checkbox"/> |
| Number of vegetarian meals needed _____ | |

- ◆ **Pre-registration is required for this event before JUNE 30th!**
- ◆ To pre-register Email Gagan Jain at gjain100@gmail.com (# 905.569.1302)
- ◆ Send payment before June 30th, 2015 to confirm your spot to:
 The SCC Ontario Chapter, c/o Robert Castillo , 64 Arrow Rd. Weston ON, M9M 2L9

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From Toronto

- Hwy 427 north to Hwy 7.
- 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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Credit Card #: _____ Expiry Date: _____

Please check the appropriate box to reserve your set:

RIGHT HANDED LEFT HANDED

❖ Caledon Woods will provide rental sets of clubs according to the requirements of the golf event. Rental sets must be requested in writing **14 DAYS** prior to the golf event. Caledon Woods will make every effort to provide last minute rental club arrangements but cannot guarantee availability. Each guest that rents a set of rental clubs is required to provide a major credit card as a deposit for the rental clubs. The guest renting the rental sets shall be solely responsible for the rental set. Any clubs not returned at the completion of the golf event will be charged at full retail price to the credit card number provided above. Rental sets **MUST** be returned to the Pro Shop at the completion of play to redeem your credit card deposit.

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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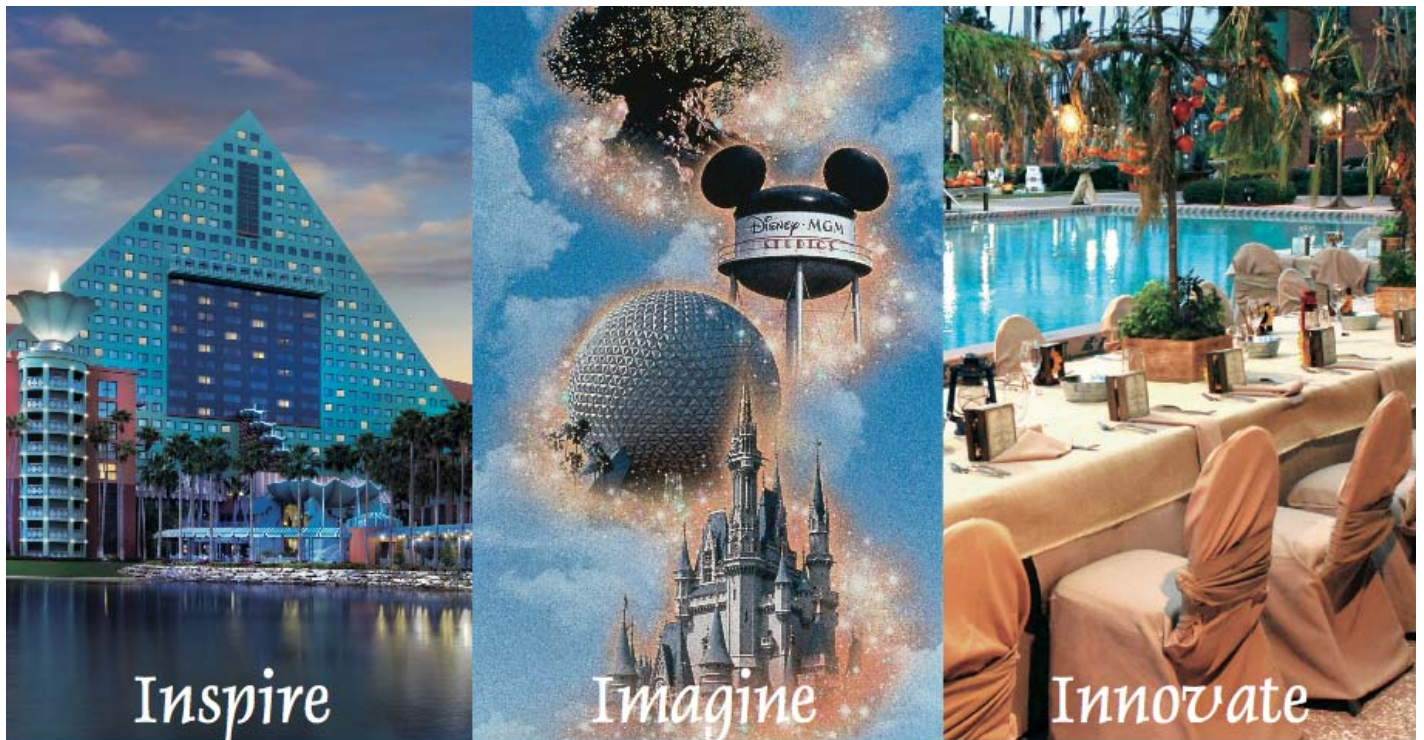
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You Asked: How much salt is too much?



Reducing sodium intake has been a nutritional mantra for decades. We have repeatedly been told that cutting back on salt lowers blood pressure which in turn lowers the risk of heart attacks and strokes. But these days it seems to be in vogue to question almost every type of dietary advice that has been dispensed by health authorities, including salt intake. Questioning current dogma of course isn't a bad thing, after all, that is how science progresses. The truth is that often the evidence for recommendations is not as robust as it is made out to be and we have seen views change about the likes of saturated

fats, eggs and sugar in our diet as new data emerge. Today, with studies being cranked out at a frantic pace it is possible to find "evidence" for almost any view that one holds, but conclusive evidence, particularly when it comes to diets, is elusive. When it comes to food, the gold standard, the randomized double-blind trial, is extremely difficult to design and carry out.

In the case of sodium, a meaningful trial would mean following groups of subjects for many years and noting the incidence of cardiovascular disease, with the only difference between groups being the amount of sodium in the diet. It is difficult enough to do this over the short term, but that actually has been done. The famous dietary approaches to fight hypertension (DASH) trial managed to test three different levels of sodium intake by providing subjects with all their meals. They consumed either 1500, 2300 or 3500 mg of sodium a day, with results showing a clear link between blood pressure and sodium intake. The 3500 mg level was chosen because it represents the amount of sodium that is consumed on the average by the population. This translates to about 9 grams of salt (sodium chloride), or one and a half teaspoons, most of which comes from processed foods.

The trial lasted only 16 weeks, too short to note a difference in disease patterns. As critics pointed out, demonstrating a decrease in blood pressure with reduced sodium is not the same as showing a decrease in the risk of a heart attack or stroke. But given that there is overwhelming evidence from population studies that high blood pressure is associated with cardiovascular disease, it is reasonable to recommend a cutback on salt. The question is by how much?

That question arises because some recent studies have suggested an increased risk of adverse health outcomes associated with sodium intake in the 1500 to 2300 mg a day range. This, however, may have nothing to do with sodium. It is possible that people with cardiovascular disease, who have been advised to dramatically reduce their salt intake, fall into this range and suffer problems because of the preexisting condition rather than their low sodium intake. In any case, for the general population, the 2300 mg target is reasonable. Debates about low sodium levels presenting a risk may have academic interest but have little practical value. The 1500 mg target is unattainable for most people, and given that our average intake is in the range of 3500 mg a day, emphasis has to be placed on reducing this rather than worrying about too little sodium.

Cutting back isn't easy. Producers cater to our fondness for salt by adding it liberally to a wide array of foods. A bowl of cereal contains about 300 mg of sodium, a single hot dog can have 800, a slice of bread 230, a cup of cottage cheese 900, a couple of slices of processed cheese 700, and half a cup of commercial tomato sauce 600 mg. A slice of pizza can weigh in anywhere from 600 to 1500 mg of sodium per slice! Obviously it isn't hard to surpass 2300 mg. So there really is no worry about consuming too little sodium, that isn't happening in the real world. There is another reason we can dismiss the naysayers who claim that the evidence to support a low sodium diet is too weak. Cutting back on sodium means a decrease in processed food intake and an increase in fruits and vegetables. And there can be no argument against that.




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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/>

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SOCIETY OF COSMETIC CHEMISTS



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The Society of Cosmetic Chemists' Continuing Education Advisory Committee is delighted to announce that registration is now officially open for the below courses. The SCC is dedicated to providing interactive courses that serve the needs of professionals in our industry. CEP instructors are highly qualified industry experts. You will come away from these small, interactive courses having gained the knowledge needed to advance your professional development. To register or to learn more please visit www.sconline.org. If you have questions please call 212-668-1500 or email dscelso@sconline.org.

Register Now – Class Size is Limited! All courses will be at the SCC National Office in NY City unless otherwise detailed below).

Preservatives

July 8, 2015

NEW! Claims for Skin Care Products – From Biomarkers to Human Studies

October 6, 2015

Surfactants

July 15, 2015

Introduction to Polymer Chemistry

October 27 – 28, 2015

NEW! Cosmetic Raw Materials For Skin Care Products

August 24 – 25, 2015

Scale Up and Processing Cosmetic Formulations

November 6, 2015

Practical Basic & Theory in Emulsion Technology

August 17, 2015

Beginning Cosmetic Chemistry

(in conjunction with SCC Annual Meeting)

December 9, 2015

Regulatory Update

September 9-10, 2015

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NEW! "Hands On Lab Experience" – Liquid Foundation Emulsion

Technology

September 30 – October 1, 2015

Toledo, Ohio

Gums, Thickeners and Rheology Modifiers

(in conjunction with SCC Annual Meeting)

December 9, 2015

Hilton Hotel & Towers, New York City



JOURNAL OF COSMETIC SCIENCE

The Official Journal of the Society of Cosmetic Chemists

CALL FOR MANUSCRIPTS

The Society of Cosmetic Chemists is soliciting scientific manuscripts concerned with cosmetics or the sciences underlying cosmetics, as well as papers of interest to the cosmetic industry for publication in the *Journal of Cosmetic Science*, *The Official Journal of the Society of Cosmetic Chemists*.

The *JOURNAL* will consider manuscripts for publication in the following categories, providing they are prepared in proper scientific style and adequately referenced:

- ◆ Original Articles
- ◆ Review Articles
- ◆ Technical Notes
- ◆ General Articles
- ◆ Preliminary Communications
- ◆ Letters to the Editor

SUBMISSION OF MANUSCRIPTS

Manuscripts submitted for publication should be accompanied by a covering letter and sent via email to the following address dscelso@sconline.org. Additional information is available from the SCC National Office.



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Announcement

“As an SCC member we ask that you please watch for an important email coming in the next few weeks from the SCC national office. This email will include your individual information on file and ask that you verify your contact information (company, address, phone and email).

As we all know there is always movement in the industry and as a member SCC national would like to ensure your details are as current as possible.”



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This year we have added a special feature to our meetings. 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 and as long as that lucky member is in attendance they get \$100!!!



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NEWSLETTER POSTING DATES FOR 2015

Here are the dates for 2015 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 17th
- ◆ February 20th
- ◆ May 7th
- ◆ August 27th
- ◆ October 15th



(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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ahalasz@rogers.com

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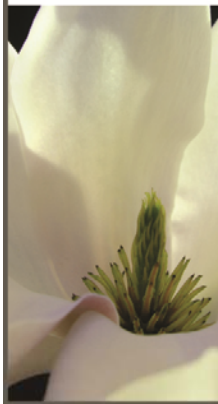


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UPCOMING EVENTS

| | |
|---|---|
| May 28th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting— <i>“A novel, pure silver antimicrobial with highly porous and micro-sized particles”</i> -Karl Richter |
| July 21st, 2015 Caledon Woods Golf Club, Bolton ON | SCC Ontario 15th Annual Golf Tournament |
| September 17th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting— Education Day |
| November 5th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| November 27th, 2015 The Venetian, Vaughan ON | SCC Ontario 19th annual Holiday Dinner Dance |

ONTARIO CHAPTER SCHOLARSHIP PROGRAM SOCIETY FOR COSMETIC CHEMISTS



The support of Cosmetic Science Education and Research are central to the goals of the Society of Cosmetic Chemists (SCC). The Ontario Chapter has developed a Scholarship Program available to Canadian University, College or High School students. In the past, the \$1000.00 award has been presented to students from the University of Toronto, University of Waterloo and University of Guelph. The program began in 2003 and 14 students have received awards in the past.

The program is open to any student planning to complete research related to cosmetic science. Interested students are invited to submit a brief, one page research outline to Dennis Zuccolin, Director of Scholarships at 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/or make a brief oral presentation on their research at a chapter meeting.

NORTHERN HIGHLIGHTS STAFF

| | | | |
|--------------|-----------------------------------|---------------------------------------|--------------------|
| PUBLISHER: | ROB QUINLAN TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | robq@tempo.ca |
| EDITOR: | MICHELE LARRY TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | michelel@tempo.ca |
| ADVERTISING: | VERA MATOVINA | 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.

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

AUGUST 2015

Volume LXIX

2015 Ontario Chapter Officers

Chair

Dorothy Maraprossians
Unipex Solutions Canada Inc
235 Advance Blvd
Brampton, ON L6T 4J2
Ph: 905-453-7131
Fax: 905-453-0199
dorothy.maraprossians@unipex.com

Chair Elect

Shahin Kalantari
d'Avicenna Inc
80 Cornerbrook drive,
Toronto, ON. M3A 1H7
Ph: 416-567-6572
shahink@davicenna.com

Secretary

Monika Melao
Charles Tennant & Company
34 Clayton Rd.
Toronto, ON M9M 2G8
Ph: (416) 741-9264
Fax: (416) 741-6642
mmelao@ctc.ca

Treasurer

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

Directors Area II

Bart Maxon
Ph: 989-496-3035
Fax: 989-496-5508
bart.maxon@dowcorning.com

Perry Romanowski
Brains Publishing
Ph: 708-207-7642
Perry.romanowski@gmail.com

Past Chair

Andrea Boylan
Andicor Specialty Chemicals Corp.
590 Abilene Drive
Mississauga, ON L5T 2T4
Ph: (905) 795-0911
Fax: (905) 795-0912
andrea.boylan@andicor.com

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Education Day
SCC Continuing Education Course
"Molecular Biology, Gene Expression
for the Cosmetic Chemist"
- Howard Epstein, Ph.D.

Thursday September 17th, 2015

PRE-REGISTRATION IS REQUIRED FOR THIS COURSE

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 14TH, 2015.

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

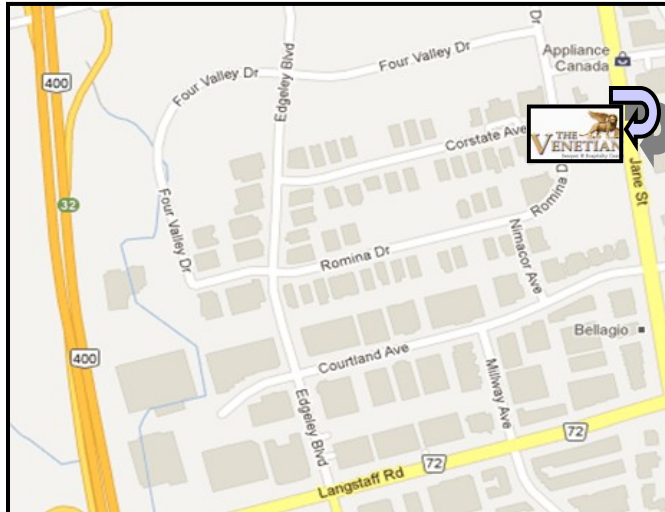
or by fax at (416) 740-2227 OR on-line at

<http://sccevent.coffeecup.com/forms/sccregistration/>

SCC Continuing Education Course
“Molecular Biology, Gene Expression
for the Cosmetic Chemist”
- Howard Epstein, Ph.D.

Thursday September 17th, 2015

| | |
|------------------|--|
| Location: | The Venetian Banquet & Hospitality Centre 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960) |
| Fees: | \$75 for SCC Members (Pre-Registered) Non-Members \$130 (Pre-Registered) \$30 for Students (pre-Registered) |
| Schedule | 9am– Registration Noon– Lunch (provided) 4:30pm– Adjourned |



COURSE OUTLINE

This course is designed for the cosmetic chemist to help them understand the very basic principles behind molecular biology, specifically selected biological markers, gene expression and relevance to cosmetic science.

- I. Introduction, the relevance of molecular biology/gene expression for the formulating chemists: does the data provide all the answers?
- II. The very basic principles of molecular biology/gene expression
- III. How do genes relate to the skin's appearance?
- IV. The language of molecular biology
- V. Epigenetics and the relevance to cosmetics
- VI. Discussion of relevant scientific papers, very basic level
- VII. General discussion on the topic “New scientific information and the relevance to old FDA Regulations i.e. Title 21 CFR the Food Drug and Cosmetic Act” and global regulations around the world.

Howard Epstein, Ph.D. is Director of Technical Services for EMD Chemicals, Philadelphia, P.A., an affiliate of Merck KGaA, Darmstadt, Germany. He was a scholar in residence at the University of Cincinnati department of dermatology and received his Ph.D. in Pharmacognasy from the Union Institute & University in Cincinnati, Ohio during that time. He has been in the cosmetic industry for many years since he began his career formulating cosmetics for Estee Lauder, Maybelline, Max Factor, Bausch & Lomb and Kao Brands. In addition to his interest in botanicals Howard recently served as Editor of the Journal of the Society of Cosmetic Science and is a member of the International Academy of Dermatology. He is on the editorial board of the dermatological journals Clinics in Dermatology and SKINmed representing the cosmetics industry to dermatologists. Howard has authored chapters in various cosmetic technology textbooks, holds eight patents and two patent applications.

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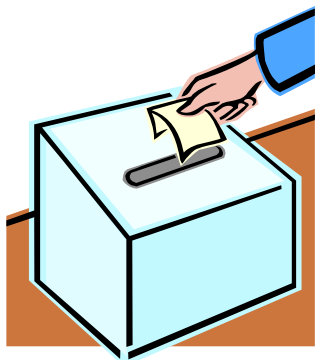
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2016 SCC Ontario Chapter Board Elections



It is time for elections of the 2016 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 5th, 2015 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

2015 SCC Ontario Chapter Board Members

| Position | Name | Phone | Email |
|-------------|-----------------------|--------------|----------------------------------|
| Chair | Dorothy Maraprossians | 905-601-8766 | dorothy.maraprossians@unipex.com |
| Chair-Elect | Shahin Kalantari | 416-567-6572 | shahink@davicenna.com |
| Treasurer | Robert Castillo | 416-740-5300 | rob.castillo@univarcana.com |
| Secretary | Monika Melao | 416-741-9264 | mmelao@ctc.ca |

2016 Ontario Chapter Candidates

SECRETARY

Candidate: Andrea Boylan

Andrea has graduated from the University of Guelph with a Bachelor of Science degree in 2000. She has since worked in the Canadian cosmetic industry in various technical sales positions. Andrea has enjoyed being a board member of the SCC Ontario Chapter for over ten years and has previously held the elected positions of Secretary and Chair. For the past three years, Andrea has also been a part of the planning committee for the annual Holiday Dinner Dance party. Andrea is currently the National Market Manager for Consumer Care at Andicor Specialty Chemicals.

CHAIR ELECT

Candidate: Saina Taidi

Saina has graduated from University of Guelph with MSc. in Biotechnology (Molecular Evolution). She has since worked in both Pharmaceutical and Cosmetic industry in both technical sales position and as a researcher. Saina has privileged being a board member of SCC Ontario chapter for the past year. As a biotechnology researcher and marketing professional, Saina is currently holding the Application Scientist position at Apollo Health and Beauty Care.



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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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15th 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 21st our 15th 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 109 attendees which included both golfers and dinner guests!

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

Esteemed winners were as follows:

First Lowest Score: Anthony Aguire, Arun Taploo, Patricia Di Bartolo, Mahsa Mounmenzadeh

Second Lowest Score Tie First Runner up: Walter Schlichtig, Toby Bajzik, Alfred Loh, Corey Gambon

Second Lowest Score Tie Second Runner up: Craig Broijer, Doug Morin, Jim McKeellar, Sam Maduri

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

Longest Drive Ladies: Mandy Billings
Longest Drive Men: Mike Poeze
Closest to the Pin Men: Alfred Loh
Closest to the Pin Ladies: Elizabeth Peitsis
Closest to the Line: Jim McKellar

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/gallery21.htm>

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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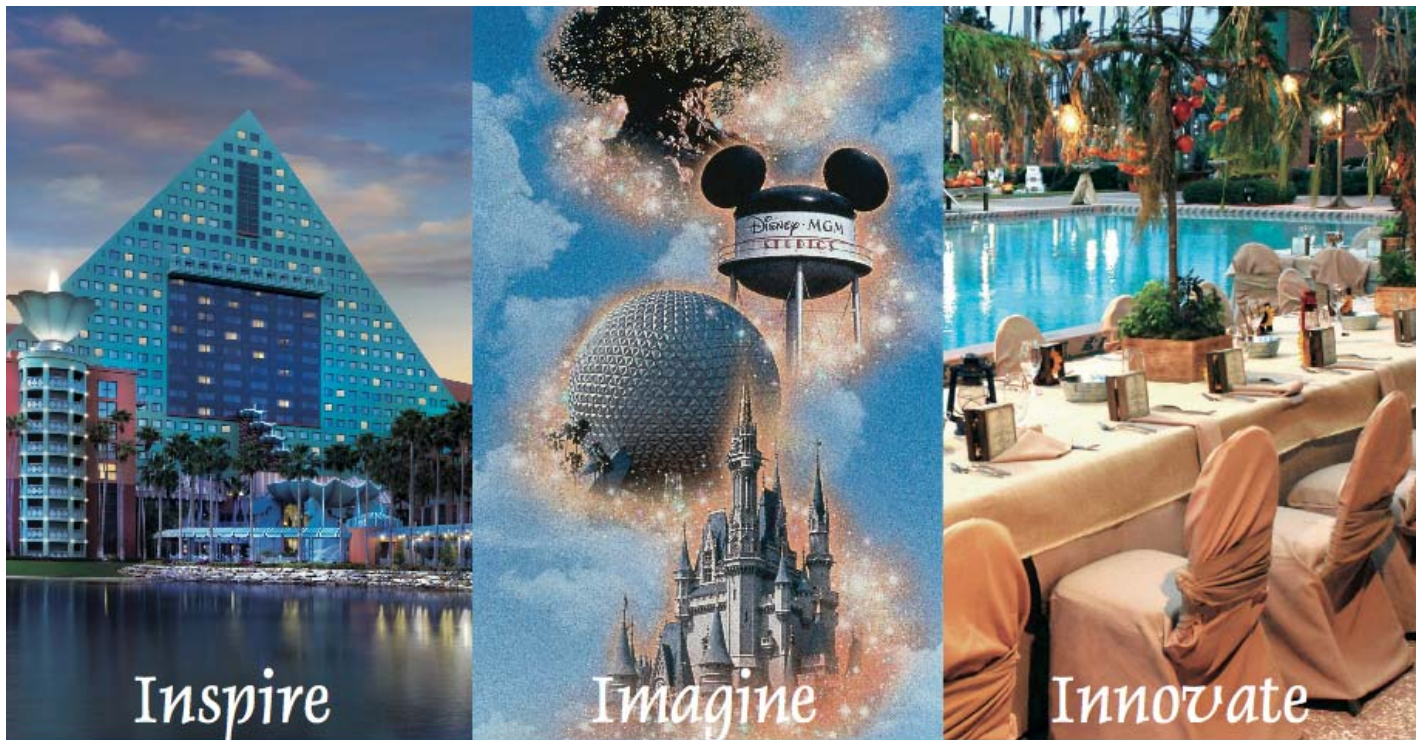
SCC ONTARIO EMAIL REGISTRATION

As you may have heard, 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!





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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

How to be a Complete Cosmetic Chemist

by PERRY ROMANOWSKI

To be a complete cosmetic chemist you need to have a wide range of knowledge and skills not taught in college. Here are the 5 main areas you need to develop to excel in a cosmetic science career.

Cosmetic science knowledge – Most of what you learned in college about chemistry was focused on topics that have limited application to the job of being a cosmetic chemist. You learned more about the construction of molecules and less about their application. As a formulator you'll have to learn what the different available ingredients do and how to use them. Considering that there are over 15,000 raw materials listed in the INCI dictionary, this can take a considerable amount of time. Here are the main areas of focus.

Functional ingredients – These are the things that make cosmetics work.

Aesthetic ingredients – These are the things that make functional ingredients look, feel, and smell better

Claims ingredients – These are the ingredients that support the story and sell your products.

Skin, hair and nail biology – Knowledge of this helps you make products to solve consumer problems.

Consumer problems – These are the problems you design cosmetics to solve.

Controversial topics – It's good to know what ingredients are controversial and the truth behind scare stories on the Internet & in popular culture.

Formulating knowledge – Knowing the ingredients is important but knowing how to put them together into a finished form that consumers will like is another. That's why you need to develop a good understanding of cosmetic formulation.

Formulation forms – There are only a limited number of product formulation types in the cosmetic industry including things like solutions, emulsions, gels, sticks, pressed powders and more.

Ingredient insights – You need to learn which ingredients are compatible and which ones aren't.

Lab equipment – It's important to be familiar with all the various lab devices you need while formulating and testing prototypes.

Processing equipment – Formulators are involved with scaling up from a beaker to a 3000 gallon tank so you need to be familiar with the equipment needed to do that.

Raw material companies – You need to know where to get raw materials and lab supplier to make your prototypes.

Product testing methods – There are hundreds of standard industry tests and thousands more you could make up yourself.

Innovation – You need to develop skills to invent novel products.

Cosmetic Business – Being a good scientist is only one aspect of excelling in a cosmetic science career. You also need to know about the cosmetic industry and how your company (or product) fits in with the rest of the industry. This will impact the way you create products and spur innovation.

Cosmetic industry players – Learn about the different types of companies in the industry, who they are, where they are located, and how they influence the industry. For cosmetics P&G, Unilever, and L'Oreal are the biggest.



Continued on pg 18

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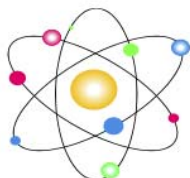


DEDICATED TO THE ADVANCEMENT OF COSMETIC SCIENCE

The Society of Cosmetic Chemists' Continuing Education Advisory Committee is delighted to announce that registration is now officially open for the below courses. The SCC is dedicated to providing interactive courses that serve the needs of professionals in our industry. CEP instructors are highly qualified industry experts. You will come away from these small, interactive courses having gained the knowledge needed to advance your professional development. To register or to learn more please visit www.sconline.org. If you have questions please call 212-668-1500 or email dscelso@sconline.org.

Register Now – Class Size is Limited! All courses will be at the SCC National Office in NY City unless otherwise detailed below).

| | |
|--|---|
| Preservatives July 8, 2015 | NEW! Claims for Skin Care Products – From Biomarkers to Human Studies October 6, 2015 |
| Surfactants July 15, 2015 | Introduction to Polymer Chemistry October 27 – 28, 2015 |
| NEW! Cosmetic Raw Materials For Skin Care Products August 24 – 25, 2015 | Scale Up and Processing Cosmetic Formulations November 6, 2015 |
| Practical Basic & Theory in Emulsion Technology August 17, 2015 | Beginning Cosmetic Chemistry (in conjunction with SCC Annual Meeting) December 9, 2015 Hilton Hotel & Towers, New York City |
| Regulatory Update September 9-10, 2015 | Gums, Thickeners and Rheology Modifiers (in conjunction with SCC Annual Meeting) December 9, 2015 Hilton Hotel & Towers, New York City |
| NEW! "Hands On Lab Experience" – Liquid Foundation Emulsion Technology September 30 – October 1, 2015 Toledo, Ohio | |



JOURNAL OF COSMETIC SCIENCE

The Official Journal of the Society of Cosmetic Chemists

CALL FOR MANUSCRIPTS

The Society of Cosmetic Chemists is soliciting scientific manuscripts concerned with cosmetics or the sciences underlying cosmetics, as well as papers of interest to the cosmetic industry for publication in the *Journal of Cosmetic Science*, *The Official Journal of the Society of Cosmetic Chemists*.

The *JOURNAL* will consider manuscripts for publication in the following categories, providing they are prepared in proper scientific style and adequately referenced:

- ◆ Original Articles
- ◆ Review Articles
- ◆ Technical Notes
- ◆ General Articles
- ◆ Preliminary Communications
- ◆ Letters to the Editor

SUBMISSION OF MANUSCRIPTS

Manuscripts submitted for publication should be accompanied by a covering letter and sent via email to the following address dscelso@sconline.org. Additional information is available from the SCC National Office.

Did You Know?

The McGill Office for Science & Society (OSS)

Blisters

Blisters are an emergency response designed to provide a protective environment rich in immune cells for new skin cells to grow. Generally, they tend to grow when the upper layers of the epidermis (aka skin) fail, and in doing so, protect against any infection that might try to take advantage of this dead outer layer and get under our skin (literally). So - don't pop them!

Announcement

“As an SCC member we ask that you please watch for an important email coming in the next few weeks from the SCC national office. This email will include your individual information on file and ask that you verify your contact information (company, address, phone and email).

As we all know there is always movement in the industry and as a member SCC national would like to ensure your details are as current as possible.”



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ATTENDANCE DRAW WINNER!!

This year we have added a special feature to our meetings. 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 and as long as that lucky member is in attendance they get \$100!!!



At the May 28th meeting **Karen des Tombe's** name was drawn AND she was in attendance so she walked away with a cool \$100. Congratulations Karen!!!

Trivia (answers pg 21)

1. Canada is a bilingual country, but what is the only officially bilingual province?

- a) Quebec
- b) New Brunswick
- c) Ontario
- d) Nova Scotia

2. How many oceans border Canada?

- a) 1
- b) 2
- c) 3
- d) 4

3. What is the oldest walled city that still exists north of Mexico?

- a) Montreal
- b) Halifax
- c) Quebec City
- d) Vancouver

4. Where does the word Canada come from?

- a) Jacques Cartier
- b) Samuel de Champlain
- c) Jean Nicollet

5. Whose face is on the Canadian hundred-dollar bill?

- a) Wilfred Laurier
- b) John A. MacDONald
- c) William Lyon Mackenzie King
- d) Robert Borden

6. What is the population of Canada?

- a) 30 million
- b) 23 million
- c) 32 million
- d) 37 million

7. What are the two most multicultural cities in Canada?

- a) Toronto and Montreal
- b) Victoria and Toronto
- c) Vancouver and Toronto
- d) Vancouver and Montreal

8. What is Canada's national sport?

- a) Hockey
- b) Lacrosse
- c) Curling
- d) None of the above
- e) Both a and b

9. When did O, Canada officially become the national anthem?

- a) 1880
- b) 1920
- c) 1950
- d) 1980

10. How many points did Wayne Gretzky score in his career?

- a) 1,876
- b) 2,295
- c) 2,857
- d) 3,204

11. What is the world's tallest free-standing structure?

- a) CN Tower
- b) Burj Dubai
- c) Empire State Building
- d) Ostankino Tower

12. What major sporting event was held in Canada in 2010?

- a) Summer Olympics
- b) Winter Olympics
- c) World Cup
- d) Commonwealth Games



Longtime Member Retires!

On behalf of the SCC Ontario Chapter, we would like to wish a long and happy retirement to one of our founding members, Joanne Gordon. Having been there since day one, Joanne has seen

and been involved in the continuous growth of our chapter from just a few members to now over 200! Her passion for the industry was continuously strong and her commitment to the Ontario SCC chapter has been appreciated over the years. All the best Joanne!



....to the winning table at our May meeting comprised of Keith Ali, Sohail Munshi, Ehsan Zanjani, Maryan Salehi, Krishna Nair and Arvin Valenciano.



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Cosmetic brands – Leading brands set the tone for product development so a formulator has to know who are the biggest and what they are doing.

Market research – This helps you know who the consumer is that you are making products for and what they want. It's good to make products that people want.

Marketing – Become familiar with the marketing strategies of your company and others in the industry. This will effect the type of products you make in the future.

Distribution – This represents all the ways that your product gets into the hands of consumers. Often a distributor like Walmart will have a say in the types of products you develop.

Cosmetic Regulations – While there are not a lot of onerous restrictions on what you can make in the cosmetic industry there are some and you've got to know what you can and cannot do. The best way is to learn what group officially and unofficially sets the rules for cosmetic formulators. You also have to know these rules and follow them.

Governmental regulations – There are a number of regulatory bodies around the world. In the US cosmetics are controlled by the FDA. And other countries around the world have their own regulators.

Non-governmental groups – These are groups that set rules for the cosmetic industry and some of them are officially recognized by governmental regulatory agencies. The PCPC is the most important in the US.

Labeling rules – It's helpful to know how to label the products that you make.

GMP – If you're making formulations following good manufacturing procedures (GMP) is a must.

Career – To be a well-rounded cosmetic scientist you have to realize that it is a career and you'll want to grow in that career. To do that you need to develop some career specific knowledge, skills and connections.

Types of jobs – When you're first getting into the cosmetic industry it's helpful to know what types of jobs are available, what they involve, and what the requirements are to get them.

Career advancement behaviors – Working at a corporation requires interpersonal behaviors that are not taught to you in school. Pick up a good book on this subject.

Professional groups – Groups like the Society of Cosmetic Chemists (SCC) can help you connect with other people in your industry so you can learn new techniques, get new ideas, and keep abreast of what might happen to your company.

Networking – Building a network of friends and acquaintances is a key activity which will help you be better at your job, solve problems, and protect you if something unfortunate happens at your current place of employment. Lots of companies are bought and sold in the cosmetic industry;

Advanced training in formulation – You should never stop learning so taking continuing education courses is a key activity to advance in your career.

Building your industry reputation – The most successful people in any industry are usually the ones who are best known. Take the time to learn how to build a good reputation in the industry.

Keeping up-to-date – Never stop learning. Using the Internet to keep up with what's going on in your industry is an incredibly helpful thing to do.

I'm sure there are more things that I forgot but if you master most of these skills and knowledge you can become a complete cosmetic chemist.



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www.ontarioscc.org/sccsurvey.htm



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DR. JOE IS COMING BACK!!!

Dr. Joe Schwarcz is coming back to Toronto on October 15th to give us a presentation on Chemistry and Cosmetic Science. We all remember his last visit and this

time we'll be moving our venue to **Seneca College on the York University campus** to bring in more students and help spread the word on the new Cosmetic Science Certificate Program starting next year. Dr. Joe is the Director of McGill University's "Office for Science & Society" and is well known for his informative and entertaining public lectures on topics ranging from the chemistry of love to the science of aging. Professor Schwarcz has received numerous awards for teaching chemistry and for interpreting science for the public and is the only non-American ever to win the American Chemical Society's prestigious Grady-Stack Award for demystifying chemistry.

More details to follow!!

Trivia Answers (see pg 15)

1. Second Lowest Score Tie First Runner up

4. Jacques Cartier

7. Vancouver and Toronto

10. 2,857

2. 3

5. Robert Bordon

8. Both a and b

11. Burj Dubai

3. Quebec City

6. 32 Million

9. 1980

12. Winter Olympics



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Scs Ontario Chapter

Friends Suggest Friends
Following Message

Timeline About Friends 6 Mutual Photos More

- Became friends with Anjali Navlekar and 4 other people
- 6 mutual friends including Dorothy Maraprossians and Kashif Mazhar
- Born on February 2, 2000
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Post Photo / Video

Write something...

SCC Ontario Chapter updated his cover photo.
February 4 at 2:53pm

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NEWSLETTER POSTING DATES FOR 2015

Here are the dates for 2015 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 17th
- ◆ February 20th
- ◆ May 7th
- ◆ August 27th
- ◆ October 15th



(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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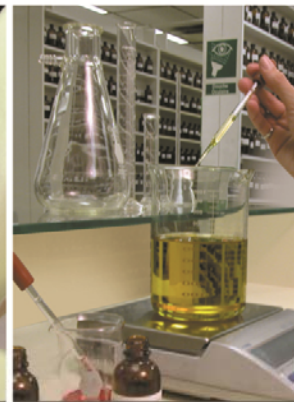


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UPCOMING EVENTS

| | |
|--|---|
| September 17th, 2015 The Venetian, Vaughan ON | Education Day— <i>“Molecular Biology, Gene Expression for the Cosmetic Chemist”</i> - Howard Epstein, Ph.D. |
| October 15th, 2015 Seneca College, York University Campus | Dr Joe Schwarcz - Details to follow |
| November 5th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| November 27th, 2015 The Venetian, Vaughan ON | SCC Ontario 19th annual Holiday Dinner Dance |
| February 4th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| March 24th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| May 26th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| September 22nd, 2016 The Venetian, Vaughan ON | Education Day |
| 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. 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

| | | | |
|--------------|-----------------------------------|---------------------------------------|--------------------|
| PUBLISHER: | ROB QUINLAN TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | robq@tempo.ca |
| EDITOR: | MICHELE LARRY TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | michelel@tempo.ca |
| ADVERTISING: | VERA MATOVINA | 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.

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

OCTOBER 2015

Volume LXX

2015 Ontario Chapter Officers

Chair

Dorothy Maraprossians
Unipex Solutions Canada Inc
235 Advance Blvd
Brampton, ON L6T 4J2
Ph: 905-453-7131
Fax: 905-453-0199
dorothy.maraprossians@unipex.com

Chair Elect

Shahin Kalantari
d'Avicenna Inc
80 Cornerbrook drive,
Toronto, ON. M3A 1H7
Ph: 416-567-6572
shahink@davicenna.com

Secretary

Monika Melao
Charles Tennant & Company
34 Clayton Rd.
Toronto, ON M9M 2G8
Ph: (416) 741-9264
Fax: (416) 741-6642
mmelao@ctc.ca

Treasurer

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

Directors Area II

Bart Maxon
Ph: 989-496-3035
Fax: 989-496-5508
bart.maxon@dowcorning.com

Perry Romanowski
Brains Publishing
Ph: 708-207-7642
Perry.romanowski@gmail.com

Past Chair

Andrea Boylan
Andicor Specialty Chemicals Corp.
590 Abilene Drive
Mississauga, ON L5T 2T4
Ph: (905) 795-0911
Fax: (905) 795-0912
andrea.boylan@andicor.com

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SCC ONTARIO CHAPTER MEETING

"Anti-aging Skin Benefits
by Modulating Multiple Molecular Targets"

- Ratan K Chaudhuri, Ph.D.

Thursday November 5th, 2015

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 2nd, 2015.

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

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

<http://sccevent.coffeecup.com/forms/sccregistration/>

SCC ONTARIO CHAPTER MEETING

“Anti-aging Skin Benefits by Modulating Multiple Molecular Targets”

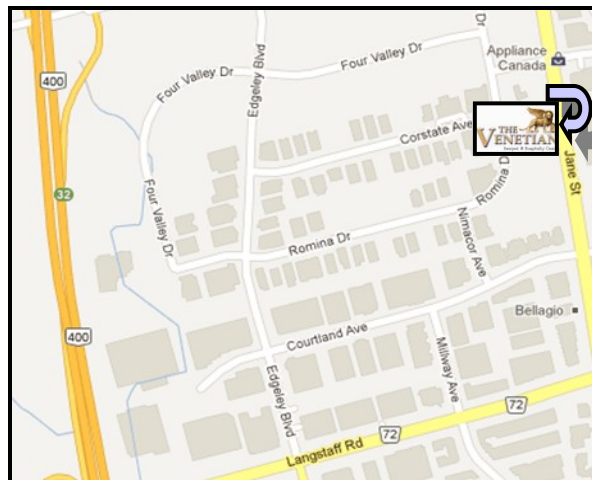
- Ratan K Chaudhuri, Ph.D.

Thursday November 5th, 2015

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:

Water homeostasis in the epidermis is the determinant factor for skin appearance, mechanical properties, barrier function, and metabolism. Human skin contains about 70% water. Shouldn't this be the first target for all skin care products? As we get older and expose our skin to sun longer result in dryer skin because of up- and down regulation of key genes/proteins responsible for hydration. Therefore, the first focus of this presentation will be on the modulation of endogenous hydration network to achieve long-lasting and controlled hydration. Then the focus will be shifted on preventive and restorative anti-aging pathways in order to obtain true anti-aging benefits.

Selection of ingredient(s) will be discussed that involves in modulating genes, proteins, enzymes involved in preventive and restorative anti-aging pathways. Preventive anti-aging targets will include (i) broad-spectrum antioxidant protection to limit direct oxidative damage of biomolecules and organelles (ii) modulating inflammation by inhibiting pro-inflammatory genes and enzymes to minimize inflammation induced skin damage, (iii) inhibiting matrix metalloprotease activities to protect extracellular matrix proteins and (iv) reducing glycation in order to maintain elasticity and changes in the dermis associated with the aging process. Restorative anti-aging targets will include modulation of key genes/proteins, like collagen, elastin, adhesion proteins (such as, E-Cadherin) etc.

Take home message of this presentation will be what to select and why in order to maintain homeostatic balance and to provide anti-aging benefits.

Biography:

Dr. Ratan Chaudhuri is Founder, President & CEO, Sytheon Ltd, a developer and marketer of evidence-based cosmetic ingredients company. He has been in the cosmetics industry for over 25 years. Before starting Sytheon Ltd. in 2006, Dr. Chaudhuri was Director of Cosmetics Research & Applications at EMD Chemicals Inc. (an affiliate of Merck Germany) and prior to that he was R&D Manager at International Specialty Products (ISP, currently Ashland Chemicals). Dr. Chaudhuri has been instrumental in conceptualizing and commercializing numerous products in the Cosmetics, Industrial, and Pharmaceutical markets. He is innovator of several personal care products - Oxynex® ST, Emblica®, Synovea® HR, HydraSynol® DOI, Sytenol® A, Asyntra® SL, Synactin® AC, Synastol® TC, Synoxyl® HSS and many more and helped commercialize these products successfully.

Dr. Chaudhuri is a frequent speaker at the national and international scientific meetings and also a reviewer for International J Cosmetic Science & Current Pharmaceutical Biotech. He is a member of the Society of Cosmetic Chemists, American Chemical Society and Personal Care Products Council. Dr. Chaudhuri has seventy three issued US patents and numerous pending and foreign patents. He has published over seventy five scientific papers and written several book chapter articles. His recent three chapter articles are: (1) Hexylresorcinol: Providing Skin Benefits by Modulating Multiple Molecular Targets, (2) Bakuchiol: A Retinol-Like Functional Compound, Modulating Multiple Retinol and Non-retinol Targets, are scheduled to be published in Cosmeceuticals & Active Cosmetics, 3rd Edition, Eds Sivamani, Jared Jagdeo, Peter Elsner & Howard I Maibach, 2015 and (3) Use of Antioxidants in Cosmetics for Anti-Aging, Harry's Cosmeticology, 9th edition, Volume 2, 2015.

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Scholarship Recipient Poster Presentation

The SCC Ontario board is pleased to announce that our most recent scholarship recipient is Marlena Whinton! Marlena will present her scholarship overview at the upcoming meeting on November 5th. The summary is below.



Transparent UV Absorbent Materials: In Situ TiO₂ Formation Within a Silicone Microemulsion Marlena Whinton & Michael Brook. Department of Chemistry & Chemical Biology, McMaster University, Hamilton, ON, L8S 4M1.

Microemulsions are thermodynamically stable, liquid dispersions of the type oil-in-water, water-in-oil, or bicontinuous. At their most basic level they consist of oil, water, and surfactant. Previous research focused on the development of microemulsions containing non-volatile silicone oil and polymerizing these dispersions into self-supporting nanostructured materials [1]. Such materials may find useful applications in pharmaceuticals, ophthalmic materials, and cosmetics as films or delivery platforms, which we are exploring. I will discuss the incorporation of titania (TiO₂) nanoparticles into silicone microemulsions, their conversion to transparent titania-filled gels by synthesizing a unique titanium alkoxide through the esterification of a trisiloxane surfactant with titanium isopropoxide, and their resulting UV absorption properties. In addition to the in situ formation of titanium dioxide, I will discuss polymerization of the microemulsion to delay or restrict visible particle formation. The ability to extend this platform to the transdermal delivery of antimicrobials and/or other active ingredients will be discussed.

1. Brook, M. A, Whinton, M., Gonzaga, F., and N. Li. *Chem Commun.* 2011, 47, 8874-8876.

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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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



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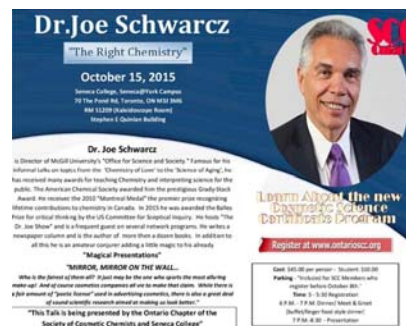
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“Dr Joe” Schwarcz Visits SCC Ontario at Seneca College!



On Thursday October 15th the SCC Ontario Chapter in association with Seneca College (York Campus) was extremely pleased to present an evening with “Dr Joe” Schwarcz!



Dr Schwarcz presentation “Mirror Mirror on the Wall...” was an informative and entertaining look at the many aspects of science and chemistry that bombard us on a daily basis and the misinformation that can be spread

by less than trustworthy sources.

Dr. Joe is the Director of McGill University’s “Office for Science & Society” and is well known for his lectures on topics ranging from the chemistry of love to the science of aging.

The event brought out many students who had a chance to meet and speak with SCC Ontario members about the cosmetics industry and was a great opportunity to spread awareness of the new Cosmetic Science Certificate Program that will be launched in the spring of 2016 at Seneca!



A special thanks go out to the organizers of the event: Sherrill Archer of Seneca, Dennis Zuccolin, Andy Halasz and the SCC Ontario board.






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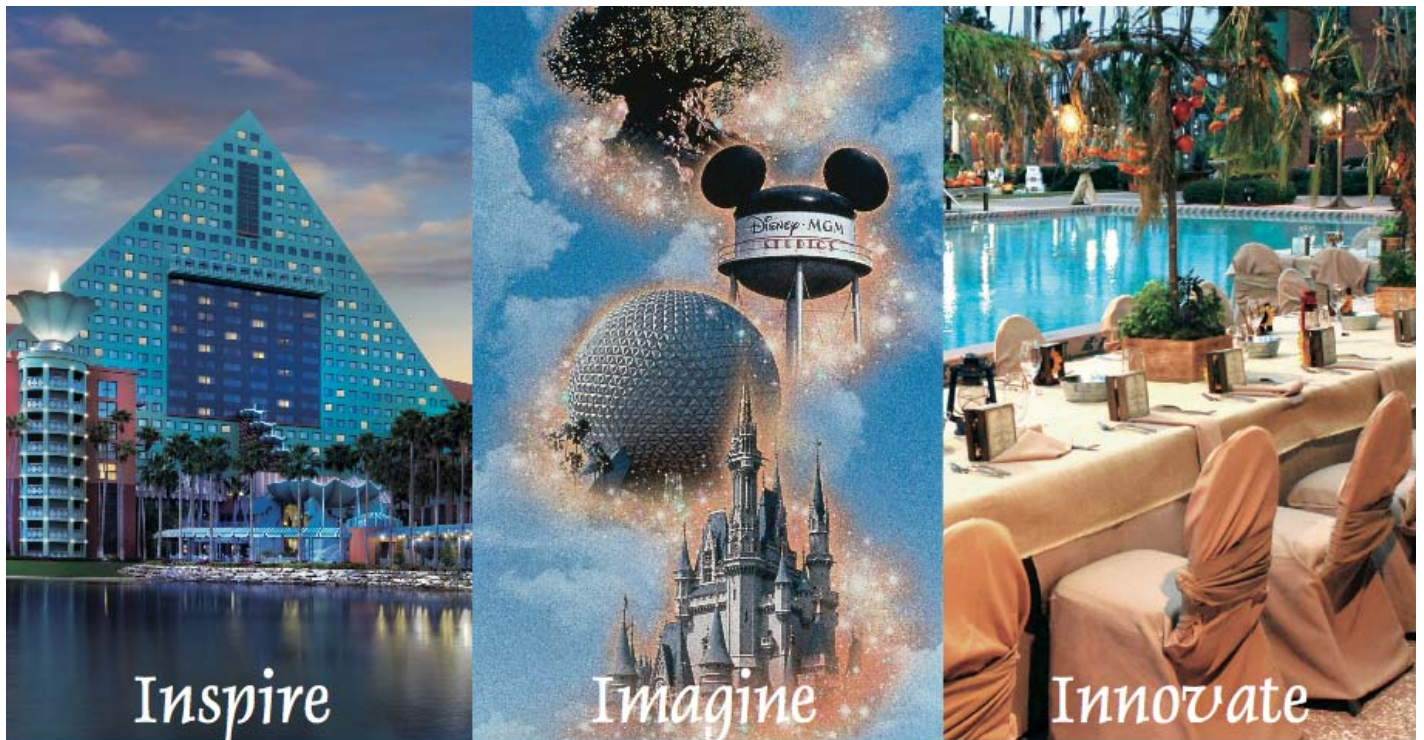
SCC ONTARIO EMAIL REGISTRATION

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/>

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paola.battiston@senecacollege.ca

HOLIDAY DINNER DANCE

On November 27th , 2015 the SCC Ontario Chapter will be holding its Nineteenth 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 6:30 p.m. by enjoying the specialties from the antipasto table. Dinner will follow at 7:30 p.m. SHARP. The dance floor will be open until 1:00 a.m. and you can enjoy a sweets table at 11:00 p.m.

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

Also back by popular demand the Music and Entertainment of “Matt Dean Productions”!!! www.mattdean.com

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

Please RSVP to **Dorothy Maraprossians** by email dorothy.maraprossians@unipex.com or call 905-601-8766 by **November 18th**.

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 RSVP 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

Soup – Tomato & Roasted Red Pepper Bisque

Salad – Venetian Cucumber Wrapped Salad

Risotto – Risotto with fresh Spinach

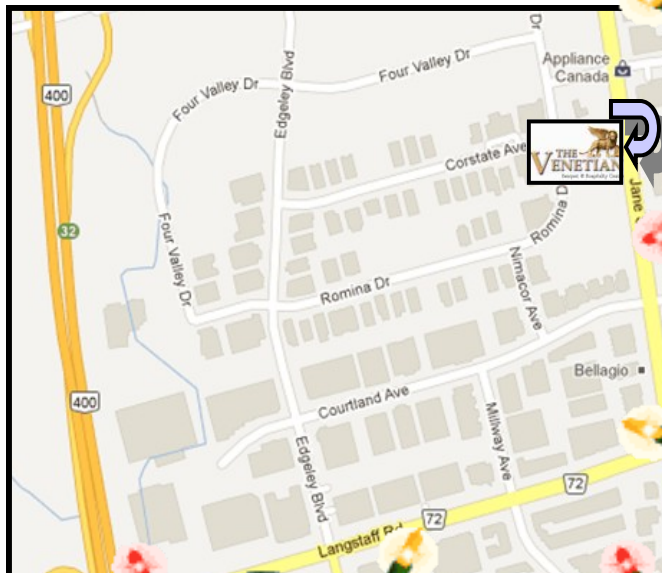
Entrée – Veal Scaloppini (Veal sautéed in mushroom and White Wine)

Entrée – Sea Bass with White Wine & Herb Sauce

Vegetable – Carrot Wrapped Asparagus with Roasted Mini New Skinned Potato

Dessert – Wafer Cup Delight

Vegetarian option – Eggplant Parmigiana





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Cosmetic Chemists is excited to help local disadvantaged
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**We would like to encourage
all who will be joining us at the upcoming
Holiday Dinner Dance to bring a new and unwrapped
toy of a \$10 minimum value to the event.**

**The toys will be donated
to Toy Mountain which has been spreading
holiday cheer to children for 20 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.**



Ontario Chapter



Holiday Dinner Dance

R.S.V.P.

Friday, November 27th, 2015

Please reply to Dorothy Maraprossians at 905-601-8766
or email dorothy.maraprossians@unipex.com
by November 18th, 2015 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".

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If confirmation is not received by November 20th, 2015, please contact
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- Ability to work in a team setting, and work independently with minimal supervision

Job Duties & Responsibilities:

- Conduct research to discover, develop, refine and evaluate new products based on marketing data.
- Conduct studies on long-term stability of products.
- Conduct patent searches to determine freedom to operate with a new formulation and supports the progress of projects through the technology transfer process by providing technical summaries at key stages during the project as requested.
- Develop experimental programs and work plan and schedule to meet performance objectives.
- Review test results in alignment with the project goals, identify complex problems, causes of variances and recommend solutions to achieve goals.
- Develop prototype products for use by focus groups or in clinical trials.
- Participates in interdisciplinary research and development projects working with other related professionals in the field.
- Assist with scale-up from development to production quantities, in collaboration with chemical technicians and plant production personnel.
- Supervise other chemists, chemical technicians and technologists.

Requirements:

- A bachelor's degree in chemistry, biochemistry or a related discipline is required.
- Strong research skills, specialising in cosmetics formulation, research and development
- Significant experience with emulsions (w/o, o/w, w/o/si, etc)., suspensions, serums and anhydrous systems, is expected.
- Demonstrates strong skills in biological skin and hair care strategies
- At least 2 years work experience in cosmetics formulation

Additional Information:

- Applicant must be able to work in very stressful problem solving situations, where constraints such as limited time and resources, is available.
- Mobility may be required to visit DECIEM's Plant locations, which are within the Greater Toronto Area.

Applicants must submit a cover letter and a copy of their latest resume to hr@deciem.com, with the subject line stating their full name and the role (eg. John Smith, Cosmetics R&D Chemist).

Job Type: Full-Time (40 Hours per week)

Salary: \$61,000 - \$80,000

Benefits: Drug, Dental, Optical and Extended Healthcare Benefits

Location: Toronto, Canada

Did You Know?

Filter Coffee and Cholesterol

Filter coffee may be better for you than French press coffee or the espresso version. This is due to cafestol, one of the chemicals present in coffee which is known to raise levels of LDL (or "bad") cholesterol. Cafestol is found in oily part of coffee, which gets soaked up in a filter and doesn't end up in your drink. Compare this to espresso machines and French press coffee that don't have any filter, allowing the oily part of the coffee to make its way into your mug. Moral of the story: if you are monitoring your cholesterol, stick to filter or instant coffee. Certainly not as tasty, but may improve your health.

Announcement

"As an SCC member we ask that you please watch for an important email coming in the next few weeks from the SCC national office. This email will include your individual information on file and ask that you verify your contact information (company, address, phone and email).

As we all know there is always movement in the industry and as a member SCC national would like to ensure your details are as current as possible."



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ATTENDANCE DRAW WINNER!!

This year we have added a special feature to our meetings. 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 and as long as that lucky member is in attendance they get \$100!!!



SOCIETY OF COSMETIC CHEMISTS



DEDICATED TO THE ADVANCEMENT OF COSMETIC SCIENCE

The Society of Cosmetic Chemists' Continuing Education Advisory Committee is delighted to announce that registration is now officially open for the below courses. The SCC is dedicated to providing interactive courses that serve the needs of professionals in our industry. CEP instructors are highly qualified industry experts. You will come away from these small, interactive courses having gained the knowledge needed to advance your professional development. To register or to learn more please visit www.sconline.org. If you have questions please call 212-668-1500 or email dscelso@sconline.org.

Register Now – Class Size is Limited! All courses will be at the SCC National Office in NY City unless otherwise detailed below).

Preservatives

July 8, 2015

NEW! Claims for Skin Care Products – From Biomarkers to Human Studies

October 6, 2015

Surfactants

July 15, 2015

Introduction to Polymer Chemistry

October 27 – 28, 2015

NEW! Cosmetic Raw Materials For Skin Care Products

August 24 – 25, 2015

Scale Up and Processing Cosmetic Formulations

November 6, 2015

Practical Basic & Theory in Emulsion Technology

August 17, 2015

Beginning Cosmetic Chemistry

(in conjunction with SCC Annual Meeting)

December 9, 2015

Regulatory Update

September 9-10, 2015

Hilton Hotel & Towers, New York City

NEW! "Hands On Lab Experience" – Liquid Foundation Emulsion

Technology

September 30 – October 1, 2015

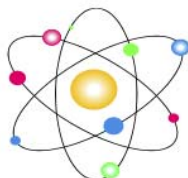
Toledo, Ohio

Gums, Thickeners and Rheology Modifiers

(in conjunction with SCC Annual Meeting)

December 9, 2015

Hilton Hotel & Towers, New York City



JOURNAL OF COSMETIC SCIENCE

The Official Journal of the Society of Cosmetic Chemists

CALL FOR MANUSCRIPTS

The Society of Cosmetic Chemists is soliciting scientific manuscripts concerned with cosmetics or the sciences underlying cosmetics, as well as papers of interest to the cosmetic industry for publication in the *Journal of Cosmetic Science*, *The Official Journal of the Society of Cosmetic Chemists*.

The *JOURNAL* will consider manuscripts for publication in the following categories, providing they are prepared in proper scientific style and adequately referenced:

- ◆ Original Articles
- ◆ Review Articles
- ◆ Technical Notes
- ◆ General Articles
- ◆ Preliminary Communications
- ◆ Letters to the Editor

SUBMISSION OF MANUSCRIPTS

Manuscripts submitted for publication should be accompanied by a covering letter and sent via email to the following address dscelso@sconline.org. Additional information is available from the SCC National Office.

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With a focus on education, the SCC Ontario Chapter is always striving to bring the highest quality educational seminars to our Chapter members. At the same time we like to entertain and foster a social environment. The problem is, you can't make everyone happy! That's why we need your feedback. Fill out a simple questionnaire on line and tell us what interests YOU;

www.ontarioscc.org/sccsurvey.htm



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Colors in Cosmetics – Pigment Quality Control and the Importance of Dispersion

by KELLY DOBOS on 10/09/2015

Classical cosmetic pigments are made in large batches so there are unavoidable, slight variations in shade or other quality from batch to batch. The pigments are supplied as dry powders where primary particles exist in various states of aggregation and agglomeration that amplify the variation in color properties when evaluated as dry powders. These pigments must be fully extended or dispersed in a vehicle to get as close as possible to primary particle size to see the full development of color.

Dispersion is the process of wetting, separating and distributing pigment particles in a medium. It requires intense energy input through high sheering in liquids or pulverization in powders. It can also require specialized equipment.

Table 1.

| Application | Dispersion Base | Dispersion Equipment |
|----------------------|------------------------|--------------------------|
| Powders | Talc | Osterizer |
| Nail Polish | Nitrocellulose Lacquer | Hoover Muller |
| Nail Polish | Acrylic Lacquer | Three Roll Miller |
| Lipsticks, Emulsions | Castor Oil | Hoover Muller, Ball Mill |

Quality Controls of Colorants

Things to consider when creating standards

- Evaluate at least three lots of material from the supplier including the designated standard lot. It is important to note differences in synthesis, substrate, and composition can cause variation in color space between suppliers so they are rarely drop-in replacements and should be evaluated independently.
- You and your supplier should understand and agree on specifications, standard, and test methods presented by the supplier.
- Ensure product development is performed with material that is representative of the supplier's product capabilities. Selecting a lot for development work that is at the edge specifications can be problematic.

Shade Evaluation

Your light source for evaluation must be specified and controlled.

- **Dyes:** Visual and spectrophotometric evaluation in solution.
- **Pigments:** Pigment cannot be evaluated as received in dry pigment form because the degree of aggregation and agglomeration varies from batch to batch. Wet dry dispersions (depending on the end application) are prepared under defined conditions and to a defined level of dispersion.

As the formulations and compositions of base formulas varies widely between end users or pigments, internal tests can be developed to better understand and prepare for shade adjustments in production as it would be impractical for the supplier to develop a quality method for every possible customer.

Article compliments of <http://chemistscorner.com>



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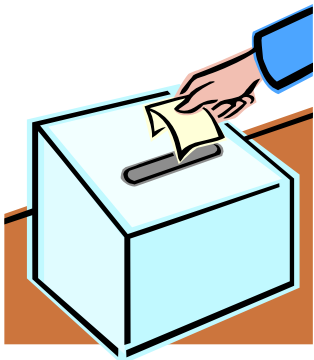


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2016 SCC Ontario Chapter Board Elections

It is time for elections of the 2016 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 5th, 2015 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

2015 SCC Ontario Chapter Board Members

| Position | Name | Phone | Email |
|-------------|-----------------------|--------------|----------------------------------|
| Chair | Dorothy Maraprossians | 905-601-8766 | dorothy.maraprossians@unipex.com |
| Chair-Elect | Shahin Kalantari | 416-567-6572 | shahink@davicenna.com |
| Treasurer | Robert Castillo | 416-740-5300 | rob.castillo@univarcana.com |
| Secretary | Monika Melao | 416-741-9264 | mmelao@ctc.ca |

2016 Ontario Chapter Candidates

SECRETARY

Candidate: Andrea Boylan

Andrea has graduated from the University of Guelph with a Bachelor of Science degree in 2000. She has since worked in the Canadian cosmetic industry in various technical sales positions. Andrea has enjoyed being a board member of the SCC Ontario Chapter for over ten years and has previously held the elected positions of Secretary and Chair. For the past three years, Andrea has also been a part of the planning committee for the annual Holiday Dinner Dance party. Andrea is currently the National Market Manager for Consumer Care at Andicor Specialty Chemicals.

CHAIR ELECT

Candidate: Saina Taidi

Saina has graduated from University of Guelph with MSc. in Biotechnology (Molecular Evolution). She has since worked in both Pharmaceutical and Cosmetic industry in both technical sales position and as a researcher. Saina has privileged being a board member of SCC Ontario chapter for the past year. As a biotechnology researcher and marketing professional, Saina is currently holding the Application Scientist position at Apollo Health and Beauty Care.



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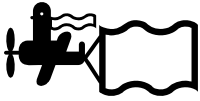
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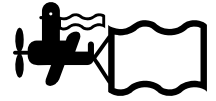
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The SCC Ontario Chapter would like to take this opportunity to thank all of our sponsors for the 2015 Newsletters. Now is the time to request advertising for the year 2016. We will be maintaining our rates for 2016. The rates as listed will include a minimum of 5 issues of our newsletter.

All fees will be due by December 31, 2015 and must be received in order to be included in our January 2016 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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CONTACT

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NEWSLETTER POSTING DATES FOR 2015

Here are the dates for 2015 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ January 17th
- ◆ February 20th
- ◆ May 7th
- ◆ August 27th
- ◆ October 15th



(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



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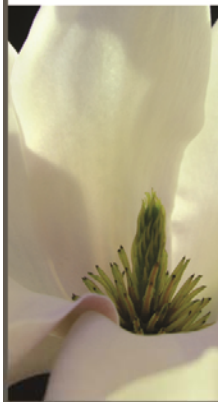


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UPCOMING EVENTS

| | |
|--|---|
| November 5th, 2015 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting-“Anti-aging Skin Benefits by Modulating Multiple Molecular Targets”- Ratan K Chaudhuri, Ph.D. |
| November 27th, 2015 The Venetian, Vaughan ON | SCC Ontario 19th annual Holiday Dinner Dance |
| February 4th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| March 24th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| May 26th, 2016 The Venetian, Vaughan ON | SCC Ontario Chapter Meeting—TBA |
| September 22nd, 2016 The Venetian, Vaughan ON | Education Day |
| 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. 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

| | | | |
|--------------|-----------------------------------|---------------------------------------|--------------------|
| PUBLISHER: | ROB QUINLAN TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | robq@tempo.ca |
| EDITOR: | MICHELE LARRY TEMPO CANADA ULC | ph: 905-339-3309 fax: 905-339-3385 | michelel@tempo.ca |
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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.

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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