
NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter

135 Shuh Avenue
Kitchener, ON, N2A 1H4

February 2011

Volume XLVI

2011 Ontario Chapter Officers

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"Current Fears, Facts and Myths of the Cosmetic Industry"

[Dr Joe Schwarcz](#)

March 3rd, 2011

Member Special Offer

An SCC Member may bring a guest for **free** to the Joe Schwarcz presentation.

Non- Members – Regular Meeting Fees Apply.

Please make your reservation prior to **February 25th, 2011.**

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 Gary at: gary@geandb.com
or by fax at (519) 896-7350 or on-line at
www.ontarioscc.org/registration/chaptermtg.html

"Current Fears, Facts and Myths of the Cosmetic Industry"

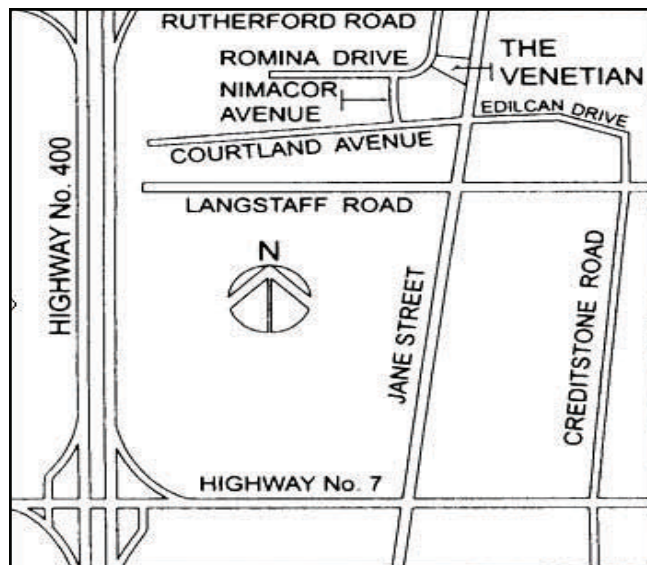
Dr Joe Schwarcz

March 3rd, 2011

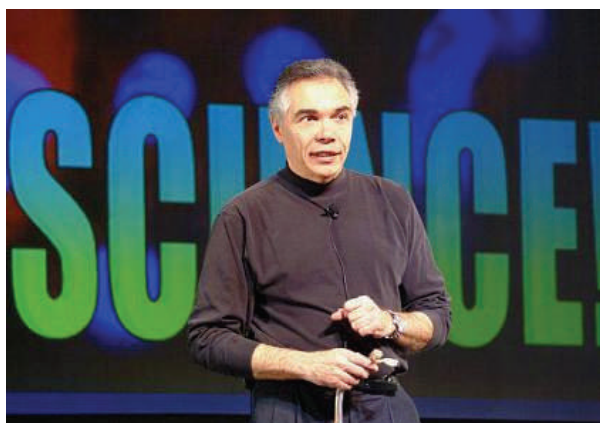
Location: The Venetian Banquet & Hospitality Centre
219 Romina Drive, City of Vaughan,
ON, L4K 4V3 (tel: 905-264-9960)

Time: 5:30 p.m. Cocktails
6:30 p.m. Dinner
7:30 p.m. Presentation
8:30 p.m. Adjourment

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



Dr Joe Schwarcz - Biography



Joe Schwarcz (PhD McGill 1973) is Director of McGill University's Office for Science and Society, a unique enterprise with a mandate of demystifying science for the public, the media and students. Dr Schwarcz also teaches a variety of courses in McGill's Chemistry Department and in the Faculty of Medicine with emphasis on health issues, including aspects of "Alternative Medicine". He is well known for his informative and entertaining public lectures on topics ranging from the chemistry of love to the science of aging. Using stage magic to make scientific points is one of his specialties.

Professor Schwarcz has received numerous awards for teaching chemistry and for interpreting science for the public. Among these are the Royal Society of Canada's McNeil Award and the

American Chemical Society's prestigious Grady-Stack Award. Previous winners of the Grady-Stack have included famed science writer Isaac Asimov, New York Times columnist Walter Sullivan and Don Herbert of TV's "Mr. Wizard" fame. Dr. Schwarcz is the only non-American ever to be honored with this prize. His latest awards include the Royal Canadian Institute's Sandford Fleming Medal, the Society of Chemical Industry's Purvis Award and the Chemical Institute of Canada's Montreal Medal. Dr. Schwarcz was also awarded an honorary Doctorate degree by Athabasca University.

"Dr. Joe" has appeared hundreds of times on the Canadian Discovery Channel, TV Ontario, Global Television, CBC-TV, CTV-TV and various radio stations. He hosts the "Dr. Joe Show" on Montreal's CJAD every Sunday from 3-4 PM. He also hosted "Science To Go," a series on the Discovery Channel that focused on common foods.

Dr. Schwarcz writes a weekly newspaper column in the Montreal Gazette entitled "The Right Chemistry" as well as a monthly column in Canadian Chemical News. He was the chief consultant on the Reader's Digest best sellers "Foods That Harm, Foods That Heal" and "The Healing Power of Vitamins, Minerals and Herbs" and contributed the chemistry chapter to the best-selling "Mental Floss." His books "Radar, Hula Hoops and Playful Pigs," "The Genie in the Bottle," "That's The Way The Cookie Crumbles," "Dr. Joe and What You Didn't Know," "The Fly in the Ointment," "Let Them Eat Flax," "Brain Fuel," "An Apple A Day," "Science, Sense and Nonsense," and his latest, "Dr. Joe's Brain Sparks" have all been best sellers. The books have been translated into seven languages and are sold around the world.

SCC ONTARIO SCHOLARSHIP STUDENT POSTER PRESENTATION CAROL YUAN

The Ontario Chapter Board has approved a \$1,000.00 Scholarship for Carol Yuan, currently completing her Master's Degree under Professor Edgar Acosta in the Department of Chemical Engineering, University of Toronto. Carol's research program is based on the formulation of gellable microemulsions. She will be giving a poster presentation at the upcoming March 3rd chapter meeting on "Biocompatible Microemulsion Gels for the Delivery of Actives".



Microemulsions are optically transparent, low viscosity, and thermodynamically stable dispersions of oil and water stabilized by an interfacial film of an amphiphile (such as a surfactant) usually in combination with a co-surfactant such as short or medium chain alcohol. The use of lecithin and linker molecules was shown to enhance the skin compatibility and allow delivery of actives for up to 12 hours.

Since dermal absorption mainly occurs through a diffusion process, the viscosity of the cosmetic formulation plays an important role in the delivery of the actives. By using thermo-responsive gelling agents, the viscosity of the microemulsion can be transformed at different temperatures and the rate of absorption controlled. Carol is currently evaluating this process toward the development of a controlled release liquid/gel.

A Remembrance

With deep regrets and sadness we inform you that Terry Cesario, the executive director of the Society, passed away January 16th at her home. For the past three decades Mrs. Terry Cesario worked with the Society of Cosmetic Chemists. We have lost a good friend as well as an outstanding leader that fought relentlessly for the benefit of the SCC and all its members. Terry was a true professional and her service went well beyond the call of duty. Terry was an outstanding leader, friend and above all a wonderful woman. Her presence and influence will be sorely missed by all.



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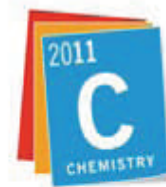
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The International Year of Chemistry 2011 (IYC 2011)

is a worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. Under the unifying theme “Chemistry—our life, our future,” IYC 2011 will offer a range of interactive, entertaining, and educational activities for all ages. The Year of Chemistry is intended to reach across the globe, with opportunities for public participation at the local, regional, and national level.



International Year of
CHEMISTRY
2011

The goals of IYC2011 are to increase the public appreciation of chemistry in meeting world needs, to encourage interest in chemistry among young people, and to generate enthusiasm for the creative future of chemistry. The year 2011 will coincide with the 100th anniversary of the Nobel Prize awarded to Madame Marie Curie—an opportunity to celebrate the contributions of women to science. The year will also be the 100th anniversary of the founding of the International Association of Chemical Societies, providing a chance to highlight the benefits of international scientific collaboration.

IYC 2011 events will emphasize that chemistry is a creative science essential for sustainability and improvements to our way of life. Activities, such as lectures, exhibits, and hands-on experiments, will explore how chemical research is critical for solving our most vexing global problems involving food, water, health, energy, transportation, and more.

In addition, the Year of Chemistry will help enhance international cooperation by serving as a focal point or information source for activities by national chemical societies, educational institutions, industry, governmental, and non-governmental organizations.

For more information about the goals, activities, administration, and timeline of IYC 2011, please download the [IYC Prospectus](#)

http://www.chemistry2011.org/assets/42/IYC_prospectus.pdf



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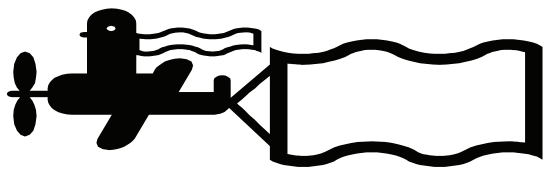
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2010 HOLIDAY DINNER DANCE

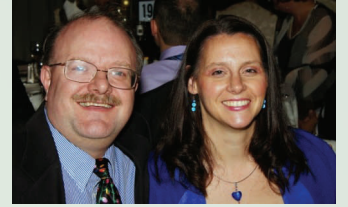


The Holiday Dinner Dance was a huge success again this year. All were in good cheer as we started the evening with the very popular Antipasto Table. Music for the remainder of the evening was supplied by “**Good Vibrations**”. The Venetian Banquet Hall and Hospitality Center put together a delicious dinner along with a sweets table that everyone really enjoyed. We would like to thank all those that graciously donated a door prize and to **Hunter Amenities** for providing the table favors for the evening.

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See all the Holiday Dinner Dance photos at:
<http://www.ontarioscc.org/gallery12.htm>
 Special thanks to **Wayne Fretz** for taking all the great pictures!!



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How to Reduce the Cost of a Cosmetic Formula

Perry Romanowski

In your career as a [cosmetic chemist](#), you will undoubtedly have the following experience. After months of prototyping and testing you create the most inspired, most incredible cosmetic formulation of your career. You present it to your marketing group and they absolutely LOVE IT! The project starts to move forward and everything is going great, but then they make a simple request.

“We love it, but can you make it less expensive?”

While your first inclination will be to answer “No” this is not always an option in the world of the cosmetic industry. But fret not, there are certain strategies you can follow to turn your excellent, expensive formula into an adequate, reasonably priced formula. Here are 5 tricks you can try.



Reduce the fragrance level

In most formulas, the fragrance is the most costly ingredient. It's also often put in at a level that is much higher than required. To get a quick cost savings, you can cut the fragrance level in half and see if a panel of users can tell a difference. You will be surprised how few people will notice even a 50% reduction. If people do notice a difference, try lowering it by only 10 or 20%. You probably have more fragrance than necessary and when you're looking for a quick cost savings, that's the first place you should start.

Reduce the level of claims ingredients

Another source of a cost savings is the claims ingredients that you've put in your formula for the marketing story. These natural ingredients are frequently more expensive additions than standard ingredients so you can save a relatively high amount of money by reducing the levels. If you are using an extract at 0.5% or even more, you're probably wasting money. Verify it yourself by doing a knock-out experiment. On a blinded-basis, see if you can pick out the one that is missing the extract. If you can't, then you can reduce the level to almost nothing. For example, using a level of 0.01% of an extract in the formula is not unreasonable when you're looking to cut costs.

Eliminate unnecessary ingredients

Speaking of reducing ingredients, there may be some ingredients that are completely unnecessary. These represent a great cost savings not only in terms of formula cost but in terms of storage costs for additional raw materials. To figure out if an ingredient isn't necessary, you should do a [knockout experiment](#) and compare the formula with and without the ingredient. If you can't tell whether a missing raw material is in the formula or not, you don't need it.

Find less-expensive alternative ingredients

While you may love your specialty emulsifier or ultra soft emollient, you may be able to replace them with a less-expensive but approximately equal alternative. It is surprising how few differences non-trained beauty product consumers notice. I once created a two-in-one shampoo formula and compared it to a basic shampoo formula that looked and smelled the same. 14 out of 15 panelists didn't notice any difference. To me, the differences were night and day. So, remember, just because you can tell a difference, your audience may not.

Water it down

The last strategy to reducing the cost of a formula is to just add water. This only works for aqueous formulas, however, that is the majority of personal care products. When you add water, you reduce the overall concentration of all the other ingredients. This reduces the cost of the entire formula. Depending on the formula, you can add up to 5% more water and not notice any difference. This could be a significant cost reduction. A word of caution with this approach however, be sure not to decrease the level of preservative. Adding more water increases the chance of microbial contamination so you want to maintain a good level of preservation. (Note: For anhydrous formulas you can use mineral oil or propylene glycol as the less expensive diluent).

Cost saving and the cosmetic chemist

Reducing cost is all part of being a cosmetic chemist and if you can find hundreds of thousands of dollars in cost savings, you will be a company hero. When you first develop formulas, don't worry so much about optimizing them. When the product is successful, your business partners will no doubt ask you for a less expensive alternative. If you've already optimized it up front, it will be much more difficult to optimize it later.



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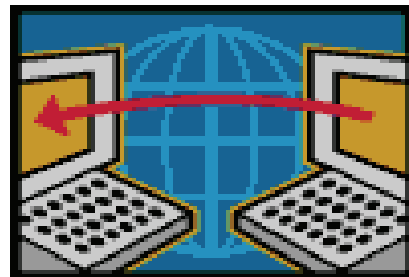


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We plan to make continued improvements to the site so visit today, bookmark it and check back frequently for all the latest.

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NEWSLETTER POSTING DATES FOR 2011

Here are the dates for 2011 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ February 18th
- ◆ March 24th
- ◆ June 30th
- ◆ September 8th
- ◆ October 20th



(or as close as we can get)

Should posting dates change throughout the year the most up to date list can be found at <http://www.ontarioscc.org/newsletters.htm>

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Programs and Privileges

Journal - Membership includes subscription to the Journal of Cosmetic Science, the Official Journal of the Society of Cosmetic Chemists. The Journal contains technical papers on topics of interest to cosmetic scientists and is distributed six times per year.

Meetings & Seminars - The Society holds its Annual Scientific Meeting each December and its Annual Scientific Seminar each May. The Meetings and Seminars provide a forum for an exchange of current findings and technology on topics of global interest in cosmetic science.

Continuing Education Programs - Our CEP Programs are short courses taught by practicing cosmetic scientists and perfumers, all acknowledged experts in their disciplines.

Chapters - Each member is assigned to one of seventeen Chapters throughout the United States and Canada, according to his or her geographic location. Chapters hold local scientific meetings throughout the year, and many publish their own newsletters.

I.F.S.C.C. - The Society of Cosmetic Chemists is one of 42 member organizations within the International Federation of Societies of Cosmetic Chemists.

Benefits of Membership.....Ask the Expert

The Society of Cosmetic Chemists has organized Ask the Expert to provide a forum for the exchange of ideas and new developments in cosmetic research and technology.

This new educational tool allows users to seek answers to questions on pre-selected topics relating to the cosmetic sciences. Each Thursday members on the pre-selected panel of experts respond to questions submitted to Ask the Expert. Questions must pertain to the designated topics and be received no later than Wednesday to receive answers Thursday of the same week. Questions should be as brief as possible.

Users ask questions to the forum's experts, and answers are received within the week.

One of the most important functions of the National Society of Cosmetic Chemists is to provide as many educational opportunities for the membership as possible. This is accomplished through many venues such as national scientific meetings and seminars, chapter meetings, chapter educational seminars, continuing education courses and the Journal of Cosmetic Science. Our members are the most important resource of the Society. Within our membership are many experts with vast knowledge in the field of cosmetic science. As many of these members approach the age of retirement, the knowledge that they possess begs to be shared. It is with great excitement that we, at National have introduced a new way to help share that information and continue the education of our members through this function called "Ask the Expert". The pool of experts include CEP instructors, consulting members, journal reviewers, monograph authors, Journal authors, renowned scientists and recognized experts in particular fields. This service is free.

The response from our experts to this program has been one of excitement, and we hope you agree. We feel it is another benefit we can provide to the membership and general public to enhance their ability to excel in their jobs.

http://www.sconline.org/website/news/ask_the_expert.shtml





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UPCOMING EVENTS

March 3rd, 2011 The Venetian, Vaughan ON	"Current Fears, Facts and Myths of the Cosmetic Industry" Dr Joe Schwarcz
May 26th, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting-TBA
June 2nd & 3rd, 2011 Bellagio Resort, Las Vegas	SCC Annual Scientific Seminar
July 19th, 2011 Caledon Woods Golf Club	SCC Ontario 11th Annual Golf Tournament
September 22nd, 2011 The Venetian, Vaughan ON	SCC Ontario Education Day
November 3rd, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting-TBA
November 25th, 2011 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance
December 8th & 9th, 2011 The Hilton, New York City	SCC Annual Scientific Meeting & Technical Showcase
May 31st & June 1st, 2012 Charleston Marriott, South Carolina	SCC Annual Scientific Seminar



SCC Founding Father,
Maison G. de Navarre

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.

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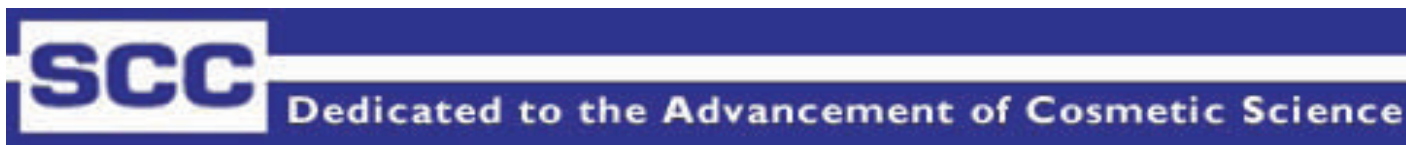
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MEMBERSHIP

For those who would like to become members, yearly fees are \$130 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.



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SCC ONTARIO MEETING MARCH 3rd, 2011 REGISTRATION FORM

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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;

<http://www.scconline.org>

Ontario Chapter
Society of Cosmetic Chemists

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NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter

135 Shuh Avenue
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May 2011

Volume XLVII

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"Meeting the Challenges of Formulating High Performance Sulfate Free Products"

Phil Cotrell—Innospec Active Chemicals
May 26th, 2011

PRE-REGISTRATION IS REQUIRED FOR THE MAYMEETING.

**PLEASE NOTE WE HAVE MOVED OUR TIMES UP BY A HALF HOUR-
COCKTAILS ARE NOW 5PM AND ADJOURNMENT IS AT 8PM
(see page 2 for new times)**

If you prefer, you can reserve a spot by email or on-line. Send us a note that you will be there. We will confirm receipt of your reservation. You can then either bring the payment with you or put it in the mail. Please make your reservation prior to **May 23rd, 2011.**

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 Gary at: gary@geandb.com
or by fax at (519) 896-7350 or on-line at
www.ontarioscc.org/registration/chaptermtg.html**

"Meeting the Challenges of Formulating High Performance Sulfate Free Products"

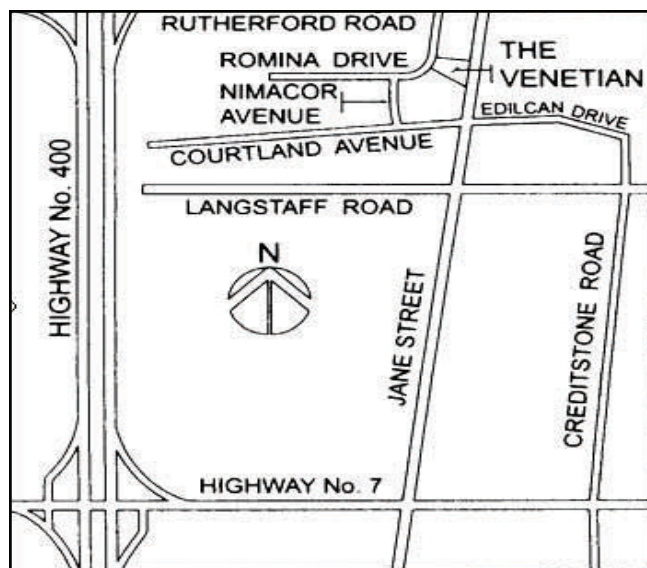
Phil Cotrell—Innospec Active Chemicals

May 26th, 2011

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



Bio:

Phillip Cotrell has been involved on the personal care market for more the 35 years. His career in personal care started with Sherex Corporation where he was instrumental in the development of ultra-mild surfactants for shampoos and skin cleansers. Over the course of his career he has focused on the development of chemistries and formulations for the personal care market, working for Cyclo Chemical, Rhodia, Pilot Chemical and most recently as Technical Director of Innospec Active Chemicals. He possesses numerous patents dealing with composition of matter and formulation focused on the personal care market.

Abstract:

"Meeting the Challenges of Formulating High Performance Sulfate Free Products"

Over the last several years there has been a growing interest in the market to move away from personal cleansing products containing alcohol sulfates and alcohol ether sulfates. Originally this "sulfate free" movement was primarily focused in niche applications, but it now has grown into much broader, mainstream areas including hair shampoos, body washes, skin and facial cleansers and related personal cleansing formulations. From a formulation standpoint, this creates challenges for formulators who are trying to create high performance, aesthetically attractive systems to compete with the more traditional sulfate based products. This presentation will review the state of the "sulfate free" market and present alternative chemistries and formulation techniques to meet these challenges.



PRESS RELEASE

Henry Maso Award for Young Cosmetic Scientists

The IFSCC is pleased to announce the opening of the competition for the new Henry Maso Award for Young Cosmetic Scientists.

The Award is given at IFSCC Conferences to the best scientific paper given by an author, normally under the age of 40, who has submitted a full paper for consideration for the Award. The winner will be awarded a trip to the next IFSCC Congress with the cost of travel, accommodation and registration fees up to, but not exceeding, 6000 Swiss Francs, being paid by the IFSCC. For example, the winner at the IFSCC Conference in Bangkok in November 2011 will attend the IFSCC Congress in Johannesburg, South Africa in 2012.

The applicant must:

- be a member of an IFSCC affiliated Society
- normally be under the age of 40
- not have submitted a paper for the IFSCC Conference
- not enter the Maison G de Navarre Award in the same year

The applicant enters the competition by submitting a full scientific paper on cosmetic or cosmetic related disciplines, in line with the theme of the 2011 IFSCC Conference, to the IFSCC, and indicating that they wish to be considered for the Henry Maso Award. The winning paper will be presented at the Conference which the winner must attend at their own cost.

The paper must be submitted in English accompanied by the details requested on the official Entry Form which is available from your local Society. The paper and form should be sent electronically to the IFSCC Secretary General Lorna Weston at lorna.weston@ifsc.org by no later than **1 JUNE 2011**.

Applicants must be members of good standing in their Society, which in turn must be current in its Federation subscription. Applicants must submit proof that they are actively employed in a technical capacity in the Cosmetic Industry or related Academia and that they meet the relevant requirements.

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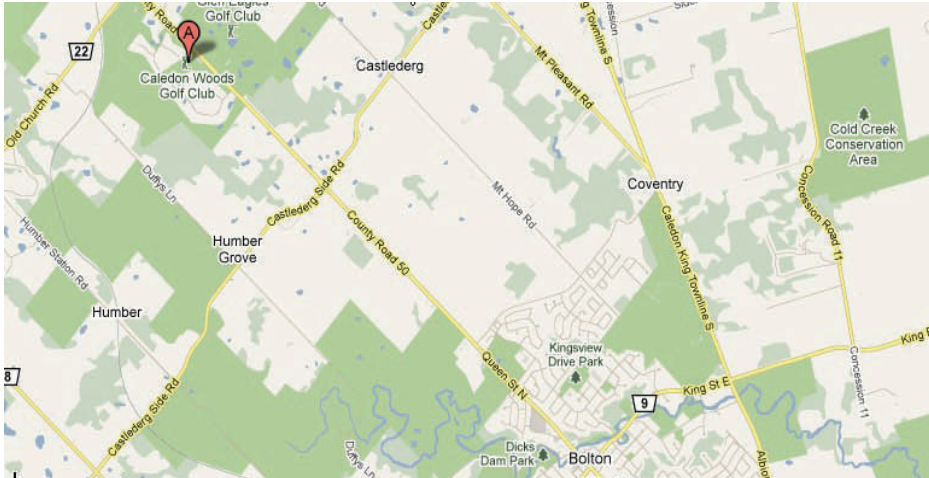
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Signature

Date



CORPORATE EVENTS DRESS CODE

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- 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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SOCIETY OF COSMETIC CHEMISTS ONTARIO CHAPTER
SCC

c/o 135 Shuh Avenue, Kitchener, Ontario N2A 1H4

SCC Eleventh Annual Golf Tournament

Tuesday, July 19, 2011

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

Time: 1:00 pm Shotgun start.

Fee: \$185 Golf & Dinner Package
 \$120 Golf & Lunch
 \$ 75 Dinner-only



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11:00– 12:30 Registration & Lunch
 1:00 PM Golf - Shotgun start
 5:30 PM Cocktails
 6:30 PM Dinner, & Prize Presentation

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

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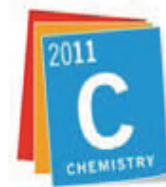
Pre-registration is required for this event please email gjain@debro.com (cell # 416-844-2031)

Send payment before July 1st, 2011 to:
 The SCC Ontario Chapter, c/o Gary Baker, 135 Shuh Avenue, Kitchener, Ontario N2A 1H4



The International Year of Chemistry 2011 (IYC 2011)

is a worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. Under the unifying theme “Chemistry—our life, our future,” IYC 2011 will offer a range of interactive, entertaining, and educational activities for all ages. The Year of Chemistry is intended to reach across the globe, with opportunities for public participation at the local, regional, and national level.



International Year of
CHEMISTRY
2011

The goals of IYC2011 are to increase the public appreciation of chemistry in meeting world needs, to encourage interest in chemistry among young people, and to generate enthusiasm for the creative future of chemistry. The year 2011 will coincide with the 100th anniversary of the Nobel Prize awarded to Madame Marie Curie—an opportunity to celebrate the contributions of women to science. The year will also be the 100th anniversary of the founding of the International Association of Chemical Societies, providing a chance to highlight the benefits of international scientific collaboration.

IYC 2011 events will emphasize that chemistry is a creative science essential for sustainability and improvements to our way of life. Activities, such as lectures, exhibits, and hands-on experiments, will explore how chemical research is critical for solving our most vexing global problems involving food, water, health, energy, transportation, and more.

In addition, the Year of Chemistry will help enhance international cooperation by serving as a focal point or information source for activities by national chemical societies, educational institutions, industry, governmental, and non-governmental organizations.

For more information about the goals, activities, administration, and timeline of IYC 2011, please download the [IYC Prospectus](#)

http://www.chemistry2011.org/assets/42/IYC_prospectus.pdf



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A visit from "Dr Joe"!!



The Ontario Chapter was very pleased to welcome **Dr Joe Schwarcz** at our March 3rd meeting. The attendance was wonderful at almost 120! Dr Joe Schwarcz is Director of McGill University's Office for Science and Society, a unique enterprise with a mandate of demystifying science for the public, the media and students. We were all entertained and informed with his particular take on science and it's impact on the world of cosmetics!

We also enjoyed a poster presentation by **Carol Xuan** on "Biocompatible Microemulsion Gels for the Delivery of Actives". Carol will be discussing her work briefly at the May 26th meeting and a synopsis can be read on page 12. Dennis Zuccolin presented Carol with a \$1000.00 SCC Ontario Chapter Scholarship. Carol is currently completing her Master's Degree under Professor Edgar Acosta in the Department of Chemical Engineering, University of Toronto.

Photos compliments of Wayne Fretz



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An advertisement for NYSCC Suppliers' Day 2011. It features a woman in a yellow dress and white skirt standing next to a red classic car. The text "Rev Up your InnoVision!" is at the top, and "NYSCC Suppliers' Day 2011" is at the bottom.

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An advertisement for BioChemica International. It features the company logo and the slogan "Exotic The Butter People!". Below the text are images of organic butter products, including a round butter wheel and a smaller butter wheel with fruit. The USDA Organic logo is also present. The contact information and toll-free number are listed at the bottom.



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Biocompatible Microemulsion Gels for the Delivery of Hydrophilic and Hydrophobic Active Ingredients

*Carol X. Xuan, Oliver Chung, and Edgar Acosta
University of Toronto*

Microemulsions are thermodynamically stable mixtures of oil, water and surfactant. They have gained interests from the cosmetic industries due to their considerable potential to solubilize/co-solubilize hydrophilic and hydrophobic actives and to improve transdermal penetration. Recently, alcohol-free lecithin microemulsions formulated with food or pharmaceutical grade surfactant-like additives (linkers) have been proved to produce a significant increase in the topical absorption of active ingredients while minimizing the cytotoxic side effects. These linker lecithin microemulsions have a characteristic low viscosity that, while desirable in applications such as sprayable formulas, needs to be modified in gel-type applications in order to prevent spontaneous spreading of the formula to undesired skin areas.

My research is focused on modifying the viscosity of low toxicity linker lecithin microemulsions using temperature-responsive viscosity modifying agents such as gelatin and poloxamer 407 (triblock copolymer of polyoxypropylene and polyoxyethylene). Transparent mixtures with a wide range of consistency (honey-like to jello-like) are obtained. Moreover, under certain conditions (balance of surfactant and linker ratios), thermosensitive microemulsion gels with water-continuous morphology can be produced. These microemulsion-gelling agent mixtures can remain as liquids under certain temperature range ($> 42^{\circ}\text{C}$ for gelatin-based systems and $< 15^{\circ}\text{C}$ for poloxamer-based systems) while gel formation can be induced by a decrease (for gelatin-based systems) or increase (for poloxamer 407-based systems) in temperature.

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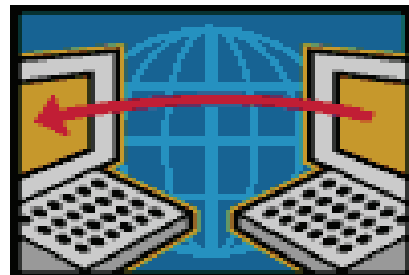
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You also have access to archived newsletters, pictures of past events as well as the convenient online registration. In addition there are speaker presentations, suppliers websites and much more!!

We plan to make continued improvements to the site so visit today, bookmark it and check back frequently for all the latest.

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Thursday: Sept. 15, 2011	½ Day Course & Golfouting			Exhibits	Cocktail Reception
Friday: Sept. 16, 2011		Technical Presentations/ Round Table	Poster Session	Exhibits	
Saturday: Sept. 17, 2011		Technical Presentations	Poster Session	Exhibits	Gala

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NEWSLETTER POSTING DATES FOR 2011

Here are the dates for 2011 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ February 18th
- ◆ May 6th
- ◆ June 30th
- ◆ September 8th
- ◆ October 20th



(or as close as we can get)

Should posting dates change throughout the year the most up to date list can be found at <http://www.ontarioscc.org/newsletters.htm>

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UPCOMING EVENTS

May 26th, 2011 The Venetian, Vaughan ON	"Meeting the Challenges of Formulating High Performance Sulfate Free Products" - Phil Cotrell—Innospec Active Chemicals
June 2nd & 3rd, 2011 Bellagio Resort, Las Vegas	SCC Annual Scientific Seminar
July 19th, 2011 Caledon Woods Golf Club	SCC Ontario 11th Annual Golf Tournament
September 22nd, 2011 The Venetian, Vaughan ON	SCC Ontario Education Day
November 3rd, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting-TBA
November 25th, 2011 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance
December 8th & 9th, 2011 The Hilton, New York City	SCC Annual Scientific Meeting & Technical Showcase
May 31st & June 1st, 2012 Charleston Marriott, South Carolina	SCC Annual Scientific Seminar



SCC Founding Father,
Maison G. de Navarre

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.

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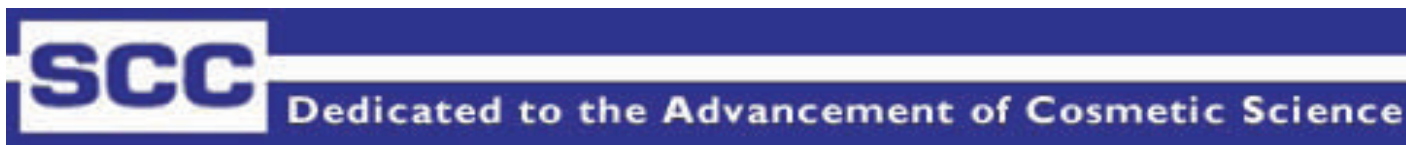
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Address Changes??

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;

<http://www.scconline.org>

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July 2011

Volume XLVIII

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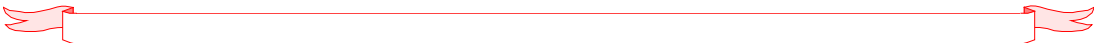



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Caledon Woods Golf Club

Tuesday, July 19, 2011

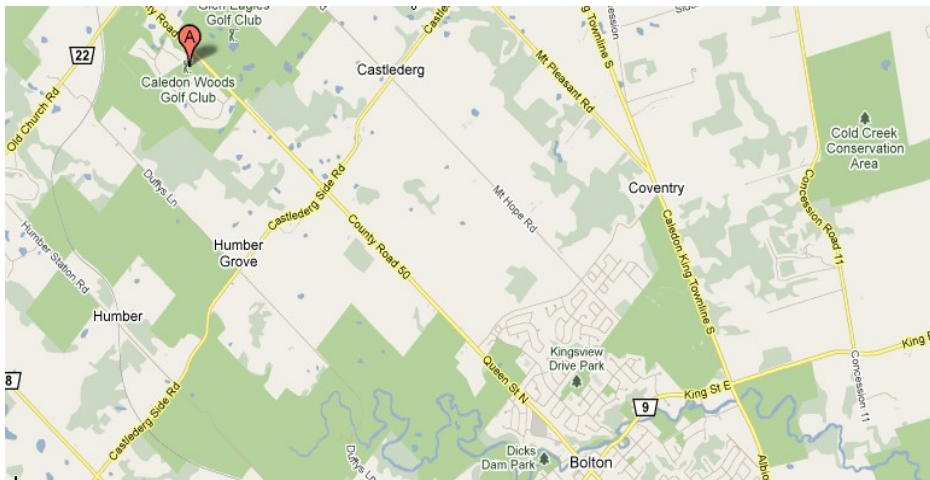
(details on pg 2 & 3)



CALEDON WOODS GOLF CLUB



15608 Regional Road 50 Bolton Ont L7E 3E5905-880-1400



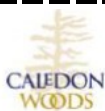
From Toronto

- 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.

FAX NUMBER: (905) 880-2498
ATTN: James Langford

Name: _____
Name of Event: _____ Date of Event: _____

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

Please check one: Visa MasterCard American Express

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.



For further information, please contact Our Corporate Events Department
Toll Free 1-800-661-8088 • Local Telephone: 905-841-7979 • Fax: 905-841-0713 • Website: clublink.ca



SOCIETY OF COSMETIC CHEMISTS ONTARIO CHAPTER SCC

c/o 135 Shuh Avenue, Kitchener, Ontario N2A 1H4

SCC Eleventh Annual Golf Tournament

Tuesday, July 19, 2011

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

Time: 1:00 pm Shotgun start.

Fee: \$185 Golf & Dinner Package
 \$120 Golf & Lunch
 \$ 75 Dinner-only



Fees include:

Itinerary :

18-hole green fees with carts
 Professional tournament scoring
 BBQ lunch
 Dinner
 Use of practice green, locker and shower facilities
 Clublink Corporate Gift worth \$30 per golfer

11:00– 12:30 Registration & Lunch
 1:00 PM Golf - Shotgun start
 5:30 PM Cocktails
 6:30 PM Dinner, & Prize Presentation

Please indicate below the participants' name

	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"/>
PLEASE indicate number of vegetarian meals required: Lunch __ Dinner__	

- **Pre-registration is required for this event please email gjain@debro.com (cell # 416-844-2031)**
- Send payment before July 1st, 2011 to:
 The SCC Ontario Chapter, c/o Gary Baker, 135 Shuh Avenue, Kitchener, Ontario N2A 1H4

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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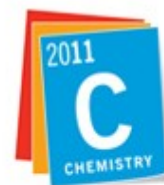
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The International Year of Chemistry 2011 (IYC 2011)

is a worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. Under the unifying theme “Chemistry—our life, our future,” IYC 2011 will offer a range of interactive, entertaining, and educational activities for all ages. The Year of Chemistry is intended to reach across the globe, with opportunities for public participation at the local, regional, and national level.



International Year of
CHEMISTRY
2011

The goals of IYC2011 are to increase the public appreciation of chemistry in meeting world needs, to encourage interest in chemistry among young people, and to generate enthusiasm for the creative future of chemistry. The year 2011 will coincide with the 100th anniversary of the Nobel Prize awarded to Madame Marie Curie—an opportunity to celebrate the contributions of women to science. The year will also be the 100th anniversary of the founding of the International Association of Chemical Societies, providing a chance to highlight the benefits of international scientific collaboration.

IYC 2011 events will emphasize that chemistry is a creative science essential for sustainability and improvements to our way of life. Activities, such as lectures, exhibits, and hands-on experiments, will explore how chemical research is critical for solving our most vexing global problems involving food, water, health, energy, transportation, and more.

In addition, the Year of Chemistry will help enhance international cooperation by serving as a focal point or information source for activities by national chemical societies, educational institutions, industry, governmental, and non-governmental organizations.

For more information about the goals, activities, administration, and timeline of IYC 2011, please download the IYC Prospectus

http://www.chemistry2011.org/assets/42/IYC_prospectus.pdf

TRIVIA (answers pg 7)

- 1) The major benefit of Sodium Laureth Sulfate is:
1.Create abundant foam 2.Create form 3.Provides mildness 4.Provides creamy foam 5. Supports the flash foam
- 2) Which is more compatible with the skin and has less irritation potential?
1. Sodium Lauryl Sulfate 2. Sodium Laureth Sulfate
- 3) The major benefit of Cocamidopropyl Betaine is:
1.Create abundant foam 2.Create form 3.Provides mildness 4.Provides creamy foam 5.Supports the flash foam
- 4) Which of these is not a myth about hair care?
1.Frequent trims will make your hair grow faster 2.Rinsing with ice cold water after a shampoo will give you shinier hair
3.You can mend split ends with the right product 4.To get really clean hair you must lather rinse and repeat
5.Extreme stress can increase hair loss
- 5) The major benefit of Sodium Cocoyl Glutamate is:
1.Create abundant foam 2.Create form 3.Provides mildness 4.Provides creamy foam 5.Supports the flash foam
- 6) The major benefit of Sodium Cocoamphoacetate:
1.Create abundant foam 2.Create form 3.Provides mildness 4.Provides creamy foam 5.Supports the flash foam
- 7) The major benefit of Coco-Glucoside:
1.Create abundant foam 2.Create form 3.Provides mildness 4.Provides creamy foam 5.Supports the flash foam
- 8) Which of these is not a property of SLES?
1.Superior foaming 2.Good lathering 3.Enables dispersion of the ingredients 4.Causes color fading 5.None of the above
- 9) Sulfate free means the products is more natural?
1.True 2.False
- 10) The FDA and or Health Canada must approve all personal care products before they go to market?
1.False 2.True
- 11) Hair dyes are safe to use on eyebrows
1.False 2.True
- 12) On a finished product "Cruelty Free" or "Not Tested on Animals" means that no animal testing was done with the product or its ingredients?
1.False 2.True
- 13) Myths about sulfate in personal care products have been:
1.Shampoos with sodium lauryl sulfate can cause development problems with the eyes of infants, and cause cataracts with adults
2.Sodium Lauryl Sulfate has a low molecular weight and is easily absorbed by the body and builds up in the liver, heart, and brain causing long term issues
3.Sodium Lauryl Sulfate is a caustic cleanser and corrodes the hair follicle and can impair the ability to grow hair
4.Sodium Lauryl Sulfate will be banned in the near future
5.All of the above
- 14) Initial problems with Sulfate free formulations include:
1.Poor flash foam compared to Sulfate blends 2.Simply did not work 3.Higher cost 4.All of the above 5.None of the above
- 15) Which is a milder sulfate?
1.Sodium Lauryl Sulfate 2.Sodium Laureth Sulfate 3.Sodium Trideceth Sulfate 4.None of the above
- 16) Sulfate free means the product does not use any Surfactants?
1.False 2.True
- 17) Surfactant is short for :
1.Surface activating ingredient 2.Surface active ingredient 3.Surface active agent 4.Surface activating agent
5.None of the above
- 18) Surfactants are:
1.Detergents – for cleansing 2.Wetting agents - in perms 3.Foaming agents - for shampoos 4.Solubilizers - for perfumes and flavors 5.All of the above 6.None of the above 7.A,B, & C only
- 19) Which of these products are considered sulfate free?
1.Isethionates 2.Sulfoacetates 3.Sulfosuccinate 4.All of the above 5.None of the above
- 20) Which of the following bodies has not published work that states SLS/SLSES in not carcinogenic?
1.FDA 2.CTFA 3.Health Canada 4.CIR 5.None of the above 6.All of the above

Congratulations to the winning table: Dean Swift, Candy Clancy, Kiuti Dhyani, Paul Robert, Gary Baker, David Miteff, Gerald Dekker and Walter Schlichtig

May Chapter Meeting Review

On May 26th Phillip Cotrell, Technical Director for **Innospec Active Chemicals** presented on *“Meeting the Challenges of Formulating High Performance Sulfate Free Products”*. The talk focused on the growing interest in the market to move away from personal cleansing products containing alcohol sulfates and alcohol ether sulfates. Also how originally the “sulfate free” movement was primarily focused in niche applications, but it now has grown into much broader, mainstream areas including hair shampoos, body washes, skin and facial cleansers and related personal cleansing formulations. The presentation reviewed the state of the “sulfate free” market and presented alternative chemistries and formulation techniques to meet the challenges for formulators who are trying to create high performance, aesthetically attractive systems to compete with the more traditional sulfate based products.



A copy of Phillip Cotrell’s presentation can be obtained at <http://www.ontarioscc.org/postings/2011/sulfatefree.pdf>

Trivia Answers

- | | | | | |
|-------------------------|---------------------------|----------------------------|--|------------------------------|
| 1. Create abundant foam | 2. Sodium Laureth Sulfate | 3. Supports the flash foam | 4. Extreme stress can increase hair loss | 5. Provides creamy foam |
| 6. Provides mildness | 7. Provides mildness | 8. Causes color fading | 9. False | 10. False |
| 11. False | 12. False | 13. All of the above | 14. All of the above | 15. Sodium Trideceth Sulfate |
| 16. False | 17. Surface active agent | 18. All of the above | 19. All of the above | 20. None of the above |

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- Preparatory and microbiological limit testing.
- Environmental, water and air quality and particle count monitoring. (purified water, rinse water, settling plate, swabs and particle count of class C & D and control areas)
- Sterility testing of finished products.
- Preparation of culture media and gram staining of contaminant and positive bacteria
- Ensure that laboratory and equipment used are maintained to a standard that is both safe and in compliance with GMP (including calibration)
- Critically evaluate current procedures and initiate improvements while maintaining an efficient Quality Control operation
- o Prepare/modify/maintain SOP's related to testing and micro work.
- Prepare reports, records based on results of testing and investigations.
- o Identify root causes and appropriate preventive actions including documentation of out of spec issues

Knowledge, skills and work experience requirements:

Background in Microbiology or related subject with pharmaceutical industry experience very beneficial

Familiarity of pharmaceutical regulatory process and QMS; GMP, HPFBI, ISO and GLP

Ability to work consistently to quality procedures and GMP

Key Competencies:

Proactive, organized: Prioritizes and organizes daily work to meet overall deadlines

Manages own time to meet short term objectives. Analytically minded. Problem solver

Basic computer knowledge MS word, excel etc. Good communication and interpersonal skills

Educational requirements:

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Application Process:

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Interview will be arranged for qualified applicants

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- BSc Degree in Chemistry, Chemical Engineering or related discipline.
- 1 - 2 years experience in a chemical company environment.
- Experience in the development of new products and applications
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In the coming weeks, you will be contacted by your Andicor Account Manager and receive additional transition information. If you have any questions through July 31, 2011, please contact Joanne Gordon, Market Manager Evonik Goldschmidt Canada directly at 416-704-1502.

Andicor and Evonik Goldschmidt are committed to working with you to ensure a smooth transition. "



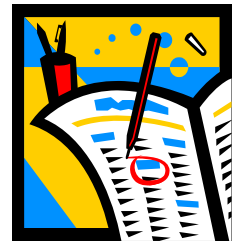
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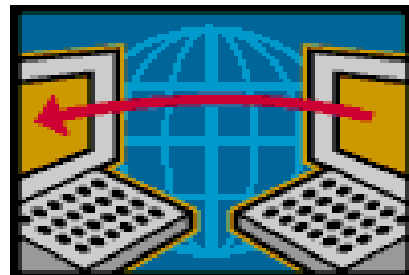
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We are committed to keeping our members as current as possible when it comes to the activities of the Ontario Chapter!! The best way to stay on top of upcoming events, Job postings, Industry news etc is to check back regularly!!



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Wednesday: Sept. 14, 2011				Setup, after 4 PM	Cocktail Reception
Thursday: Sept. 15, 2011	½ Day Course & Golfouting			Exhibits	Cocktail Reception
Friday: Sept. 16, 2011		Technical Presentations/ Round Table	Poster Session	Exhibits	
Saturday: Sept. 17, 2011		Technical Presentations	Poster Session	Exhibits	Gala

* Friday's technical presentations will include a round table discussion with top scientists in the sun care industry participating

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NEWSLETTER POSTING DATES FOR 2011

Here are the dates for 2011 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ February 18th
- ◆ May 6th
- ◆ June 30th
- ◆ September 8th
- ◆ October 20th



(or as close as we can get)

Should posting dates change throughout the year the most up to date list can be found at <http://www.ontarioscc.org/newsletters.htm>



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HLB – The Easiest Way to Create An Emulsion

by Kelly Dobos on 07/06/2009

As a cosmetic chemist you will undoubtedly be asked to make products that require you to combine materials that aren't easily compatible. Fortunately, there is a system that can help you get started.

Cosmetic Emulsions

Emulsions are one of the most common forms of cosmetic products. You find them in skin lotions, make-up, and even hair products. By definition an emulsion is a dispersion of two or more immiscible materials, where one phase, also known as the internal phase, is dispersed in the continuous or external phase. Cosmetic emulsions are classified as oil in water (O/W), water in oil (W/O) and water in silicone (W/Si). Multiple emulsions such as oil in water in oil (O/W/O) are also possible. Oil in water emulsions are the most common due to preferable cost and light skin feel.

In order to create an oil in water emulsion (one that remains stable for a long enough time), work must be done to overcome the interfacial tension between the two phases. This can be achieved by mixing; however mixing even at very high rates is not enough to provide long term stability. An emulsifier or combination of emulsifiers is needed to stabilize droplets of the dispersed phase. For example, simple oil in vinegar salad dressings will separate rapidly without the use of an emulsifier like mustard.

Using Surfactants

In this industry, we use surfactants to create emulsions. Surfactants are molecules that have a hydrophobic (oil soluble) and an effective hydrophilic (water soluble) portion. They act as emulsifiers by significantly lowering the interfacial tension and decreasing the coalescence of dispersed droplets.

HLB Formulating

Figuring out what surfactant to use for any specific formula will be a challenge you face as a cosmetic chemist. There is a great deal of research on surfactants and their behavior. But studying the thermodynamic equations and phase diagrams associated with surfactants can be a daunting task, not to mention the number of surfactants available to the formulator is vast. Luckily for us, William C. Griffin developed a way to streamline the selection of surfactants by utilizing the ratio of the hydrophobic to the hydrophilic portion of the molecule. This method is referred to as the HLB (Hydrophile Lipophile Balance) method. Griffin first presented this method at meeting of the Chicago Chapter of the Society of Cosmetic Chemists in 1949 and it is still widely used today. He published the method shortly thereafter. (A bit of trivia for you, the Chicago Chapter was the first chapter formed in Society of Cosmetic Chemists)

The HLB method applies to nonionic (uncharged) surfactants but attempts have been made to broaden the concepts to other surfactant types including silicone surfactants. And using the HLB system to create emulsions is quite simple. All you have to do is calculate the HLB number of your surfactant, then the Required HLB for the oil phase and match the two numbers.

Determining the HLB of a surfactant

A typical nonionic emulsifier (e.g. Laureth-4) contains an ethylene oxide groups or polyhydric alcohol hydrophilic portions with a fatty alcohol hydrophobic portion. The HLB for a nonionic surfactant can be calculated as follows:

$HLB = \text{Weight \% Hydrophile} / 5$

Example 1: HLB calculation for Laureth-4

Molecular weight of ethoxylate portion = 176

Molecular weight of lauryl alcohol = 186

Wt. % Hydrophile = $(176 / (176 + 186)) \times 100 = 48.6\%$

$HLB = 48.6 / 5 = 9.7$

Based on the calculation, surfactants with high HLB values will be more water soluble and those with low HLB values are more oil soluble. Division by 5 just allows for a compact, easy to use scale. The calculation is simple, but you won't usually have to figure it out since most surfactant HLB values are readily available through literature references and surfactant suppliers.

Calculating HLB of oil phase

Each lipophilic ingredient in the oil phase has its own required HLB. These required HLB values are determined experimentally, however a method utilizing solubility parameters has been proposed by Vaughan and Rice. Required HLB values for some common oil phase ingredients are available to the formulator in literature. The Req'd HLB values are approximate and can vary by about ± 1 unit. It is also important to keep in mind that cosmetic emulsions often have complex oil phases with several components. The required HLB of an oil phase mixture can be calculated by first calculating the percent of the oil phase each ingredient contributes. This percentage is then multiplied by the required HLB for each of those ingredients and the results are summed.

Example 2: Calculation of required HLB for an oil phase mixture

The oil phase is 10% of the total formulation and consists of:

4% Shea butter, 40% of the oil phase. Req'd HLB of 8.

3% Jojoba oil, 30% of the oil phase. Req'd HLB of 6.5.

3% Sunflower seed oil, 30% of the oil phase. Req'd HLB of 7.

Total required HLB:

Shea butter contribution $0.4 \times 8 = 3.20$

Jojoba oil contribution $0.3 \times 6.5 = 1.95$

Sunflower oil contribution $0.3 \times 7 = 2.10$

Total Req'd HLB = 7.25

You can now select emulsifiers to match the required HLB of the oil phase and create an emulsion. A blend of high and low HLB surfactants is often used to achieve the desired value in part because of demonstrated effectiveness and efficiencies in packing at the interface. The HLB for the surfactant blend is calculated in same manner as the required HLB for a blend.

Example 3: Calculation of HLB for a surfactant mixture

The surfactant mixture is a 70/30 blend of Steareth-2 and Steareth-21.

Total HLB:

Steareth-2 contribution $0.7 \times 4.9 = 3.43$

Steareth-21 contribution $0.3 \times 15.5 = 4.65$

Total HLB = 8.08

In order to match the HLB of a particular oil phase, it is easiest to set up a spreadsheet with the calculation and vary the percentages of each emulsifier in increments of 5% to find the right ratio.

Limitations of HLB

Although a very useful tool, the HLB system does have some limitations. For example additional water phase ingredients are not considered but still may impact the stability. The method also does not provide information as to how much surfactant is needed, but 2 to 4% surfactant is a good starting point to begin further optimization for stability. So it is important to keep in mind that the HLB system is not absolute in prediction of your formulations behavior, but a very good starting point for achieving emulsification.



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- **Others:** Propylene Glycol, Hydrogen Peroxide- 35% & 50%, Caustic Soda- beads, IPA99%, Sulfamic Acid, Zinc Sulphate, **Polysorbates- 20, 80**
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UPCOMING EVENTS

July 19th, 2011 Caledon Woods Golf Club	SCC Ontario 11th Annual Golf Tournament
September 22nd, 2011 The Venetian, Vaughan ON	SCC Ontario Education Day- "Skin, what we know and what we should know" - Anna Gripp
November 3rd, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting-"MAKEUP ART, VISUAL ART: Story-telling by Market for Success" Sarah Major, Estee Lauder
November 25th, 2011 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance
December 8th & 9th, 2011 The Hilton, New York City	SCC Annual Scientific Meeting & Technical Showcase
May 31st & June 1st, 2012 Charleston Marriott, South Carolina	SCC Annual Scientific Seminar



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SCC ONTARIO CHAPTER EDUCATION DAY THURSDAY SEPTEMBER 22, 2011

*"Skin, what we know and what we
should know"*

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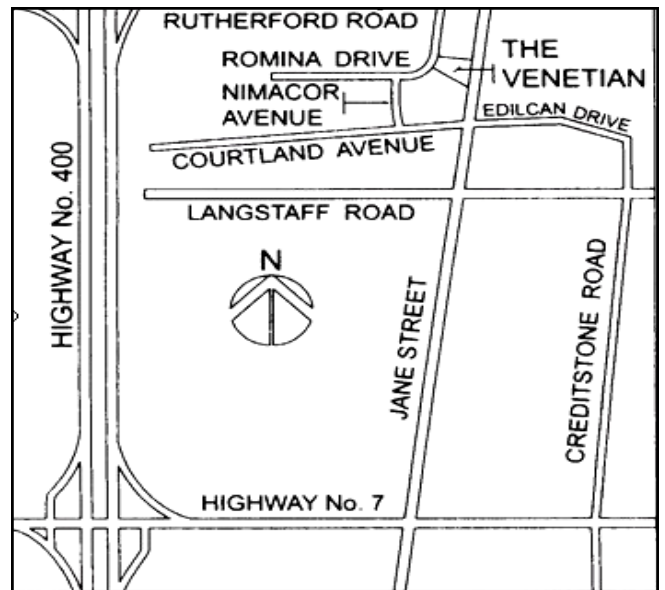
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EDUCATION DAY SCHEDULE

9:00-9:30 am	Registration/Continental Breakfast
9:30-10:30 am	Philip Ludwig (Arch) – Topic: <i>“Epigenetics and Aging”</i>
10:30-10:45 am	Break
10:45-12:15 pm	Linda Rhein (Bayer) – Topic: <i>“Aging Skin - Mechanisms and Future Therapeutic Strategies”</i>
12:15-1:30 pm	Lunch
1:30-3:00 pm	Anna Gripp (ISP) – Topic: <i>“Status and content of the monograph and latest sunscreen trends”</i>
3:00-3:15 pm	Break
3:15-4:15 pm	Dr. Sam Shefer (Salvona) – Topic: <i>“Solutions to Acne Prone Skin”</i>
4:15 pm	Questions/ Adjourned

Abstract: *“Using Human Genomic Microarrays in Personal Care”*

The advent of the mapping of the human genome and the subsequent advances in testing of skin cells using human genomic microarrays has offered opportunities to examine the influence of skin ingredients on skin cells in ways not previously seen. Through genomic examination of 205 skin important genes we found that nine well-known antioxidants all similarly influence the expression of a few specific genes. In another study, topical treatment of three well known skin lighteners on melanocytes demonstrated significant upregulation of the Tyrosinase (TYR) gene and protein. In addition, a critical iron binding protein gene, Ferritin (FTH1), was significantly upregulated in the gene arrays as well as in protein assays suggesting a role for iron in melanogenesis not previously appreciated. Lastly, we studied the epigenetic effects of a meristem culture of Himalayan red rice culture applied to fibroblasts. There is an overall reduction in CpG methylation at the promoter regions of the entire genome. In addition, Type 1A1 and Type 1A2 collagen showed reductions in epigenomic methylation at the promoter region which was further supported by increases in Type 1A collagen protein. The study results suggest that the extract has an ability to modulate critical CpG island methylation in the promoter regions of the genome which causes the cells to behave more characteristically as young, non-aged cells.

Bio:

Philip Ludwig is the Senior Research Botanist for Arch Personal Care Products. Arch Personal Care Products is at the forefront of the cosmetic industry with a wide range of biotechnological active ingredients, botanicals, proteins, preservation and delivery systems, and other specialized raw materials for personal care products of all types around the world.

Mr. Ludwig develops new botanical extracts, purifies phytochemicals and discovers innovations in growing plant tissue cultures that produce exciting new actives. He works with product development, performs analytical analysis and chromatography and analyzes *in vitro* and *in vivo* tests such as microarrays. He has written multiple patents relating to new personal care ingredients and has been a featured speaker at industry events and seminars.

Mr. Ludwig holds a BA in Biology from Grinnell College, Iowa, and a Masters in Cell and Molecular Biology from Michigan State University. Prior to joining Arch Personal Care Products, Philip worked with Ball Horticulture in Chicago and created new nutraceutical ingredients extracted from plants bred specifically by the company. He has an overall healthy passion for horticulture and plants, including a personal collection of over 70 house plants from around the world.



Abstract: *“Mechanisms and Future Therapeutic Strategies”*

Because one of the ultimate goals of the cosmetic industry is to maintain a youthful appearance of the skin, treatments that reverse the signs of aging are a significant business opportunity for this industry. Likewise the pharmaceutical industry is interested in treating and preventing photodamage, the hallmark of aging skin. The launch of Renova[®] invented by world renowned dermatologist Dr. Albert Kligman, prevailed as the first drug approved by the US FDA for the mitigation of fine wrinkles, mottled hyperpigmentation and tactile roughness—the signs of photodamage. My contribution to this seminar is aimed at providing the latest developments in the fundamental understanding of skin aging and the directions of future strategies for treatment and prevention. A fundamental theory of aging skin based on wrinkles as a consequence of chronic wounding by UV radiation and on the putative role of growth factors such as TGF β in perpetuating that damage. With this in mind, the role of matrix metalloproteinases in the repair of photodamage and the role of the growth factor, TGF β isoforms in regulating dermal matrix repair, fibrosis and remodelling are discussed. Additional covered topics are future sunscreens offering immune protection and the role of reactive oxygen, carbonyl and nitrogen species in producing nonenzymatic alterations in collagen and lipids and use of antioxidants, glycation inhibitors and nitrogen scavengers that protect from cutaneous UV-induced damage.

Bio:

Dr. Linda Rhein received her B.S. in Chemistry and her M.S. and Ph.D. in membrane and lipid biochemistry from the University of Maryland and conducted postdoctoral research at University of Pennsylvania in the area of mechanisms of sensory reception. She is currently employed at Bayer HealthCare in global drug safety focusing on dermatologics and on Rx to OTC switches. Her most recent past positions included Novartis where she conducted research on antifungals and stretch marks, L’Oreal where she studied aging skin and secured approval of new mexoryl sunscreen NDAs, GlaxoSmithKline where her research focused on milder acne treatments, sebum macromolecular structure and use of PPARs for barrier repair and at Colgate Palmolive where she led advanced technology and clinical research in areas of surfactant irritation and skin lipids. She also is an adjunct professor at Fairleigh Dickinson University. She has published over 50 scientific papers in skin research and is the editor of several books, most recently *Aging Skin - Current and Future Therapeutic Strategies* published by Allured in 2009. Dr. Linda Rhein is past President of the Society of Cosmetic Chemists, is past editor of the *Journal of Cosmetic Science*, and has received numerous awards from that society, the most notable was the Literature Award for excellence in publications relevant to cosmetic science. She is noted for her research in skin lipids, mechanisms of moisturization and surfactant irritation.

Abstract: *“Status and content of the monograph and latest sunscreen trends”*

As we enter a new sunscreen season, questions have been raised regarding the status and content of the FDA’s latest monograph ruling. The status and content of the monograph as well as the latest sunscreen trends will be covered. This is a must for anyone interested in sun care current events and developments.

Bio:

Anna Anita Gripp is Senior Director, Global Marketing for Personal Care at International Specialty Products, Inc. She has held marketing and/or technical positions at DSM Nutritional Products Inc. (formerly Roche Vitamins, Inc.), EMD Chemicals (Merck KGaA, Darmstadt, Germany), and the Consumer Product Research Division at American Cyanamid Company. She has extensive experience in management, formulation, technical service, marketing, public relations, business development, sales and development of consumer products for the personal care industry. Her areas of expertise are sun care, skin care, color cosmetics and hair care.

Ms. Gripp is the first Cosmetic Science graduate (M.A.) from Fairleigh Dickinson University. She has her B.A. in Chemistry from Rutgers University (and a minor in Slavic Languages). She recently completed her certificate in Biblical Studies from Abundant Life Bible Institute.

She is a holder of numerous industry awards, 6 patents and 3 patents pending in personal care technology. She co-authored a chapter entitled, “Sunscreens: Preventive Treatment of Photodamage and Premature Aging” in the book, “Aging Skin: Current and Future Therapeutic Strategies”, Linda D. Rhein, PhD and Joachim W. Fluhr, MD, 2010. She is an author of several industry articles and she is a quoted sun care authority in personal care industry magazines.

She has served the industry as a volunteer in both national and local chapter positions including the Society of Cosmetic Chemists, most recently as co-chair for the 2010 NYSCC Technology Transfer and Nanotechnology conferences as well as a National Senior Area I Director (2006-2008).

Ms. Gripp has been an invited guest speaker at HBA, chapter SCC meetings, and international industry meetings.



Abstract: *“Solutions to Acne Prone Skin”*

A new technology introduced to the market focused on utilizing proprietary submicron sphere for slow release of acne medications, to increase the efficacy, tolerance and compliance of topical applications. The technology enables to modulate the release of Salicylic acid, Benzyl peroxide and other anti acne medications. The technology is based on sub-micron (diameter of 0.1 micron) spheres that are composed of hydrophobic ingredients and infused with the medication. The technology allows releasing the medication, such as acid or peroxide in a slow rate over 6 hours, while maintaining the skin pH at constant 5. The submicron spheres adhere to the epidermis and gradually dissolve while releasing the medication. The technology is formulated into esthetically pleasing lotions and cream as well as dry powders and found to be effective and friendly to sensitive skin.

Bio:

Dr. Sam Shefer is the CEO of Salvona Technologies Inc. A company focused on developing and commercialization of innovative delivery systems for skin care and dermatological applications. Dr. Sam Shefer earned a PhD in Bio-chemical and Chemical Engineering and has developed various controlled release technologies for over 20 years. In 1999, Dr. S Shefer co-founded Salvona Technologies Inc.

Dr. S Shefer established a career at MIT where he was involved in developing advanced drug delivery systems, bioreactors and artificial organs. He has issued more than 80 patents and authored over fifty scientific papers on the controlled release delivery systems. Dr. S Shefer has 25 years of experience in developing and commercializing technology based products.

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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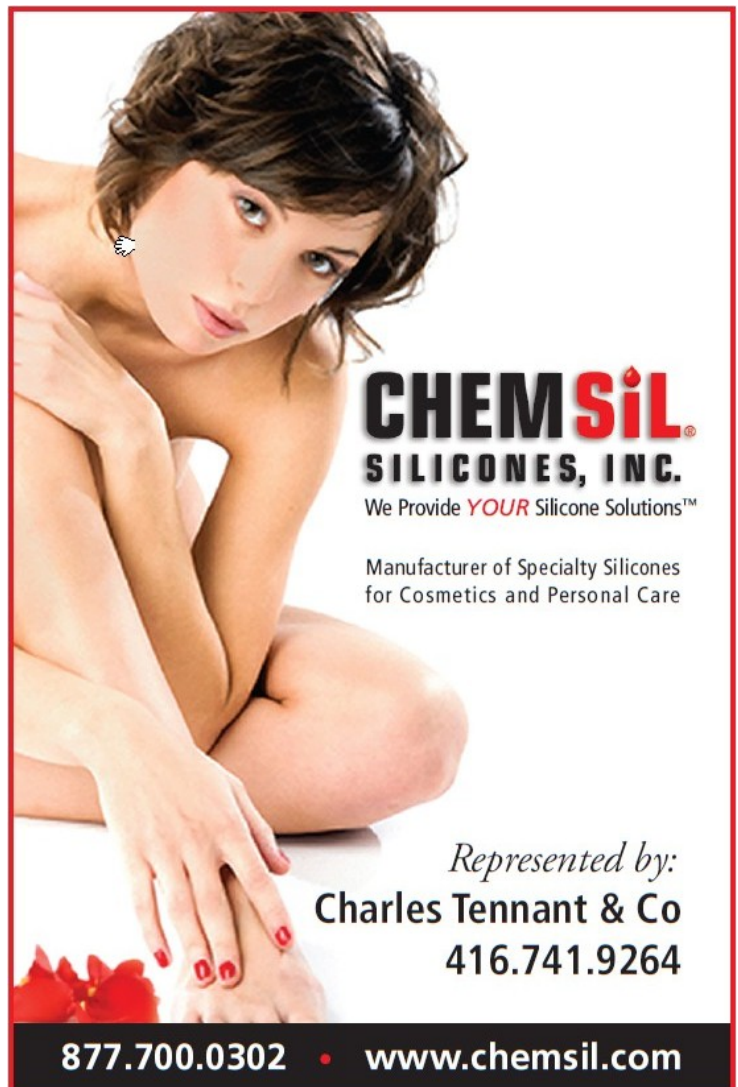
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11th Annual SCC Ontario Chapter Golf Tournament

We could not have asked for better weather than on July 19th when our 11th annual SCC Ontario Chapter Golf Tournament was played 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 120 attendees which included both golfers and dinner guests!

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

Esteemed winners of our two flights were as follows:

FLIGHT A: Jason Young, Ryan Reid, Christie Hopkins, and Mike Cadden
(8 under par win by retrogression)

FLIGHT B: Dag Enhorning, Chuck Wojtas and Rob Quinlan (8 under par)

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

Longest Drive Ladies: Mandy Billings

Longest Drive Men: Ryan Reid

Closest to the Pin Men: Manjit Singh

Closest to the Pin Women: Reiko Schlichtig

Closest to the Line (Men & Ladies): Spencer Gangbar

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 to **Gagan Jain, Craig Broijer**, for their time and effort in organizing this grand event. Next year's plans are already in the works, and it's shaping up to be the best tournament on record!

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

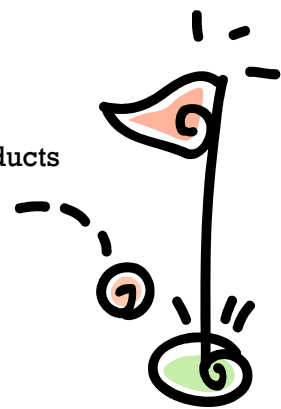
<http://www.ontarioscc.org/gallery13/gallery13.htm>

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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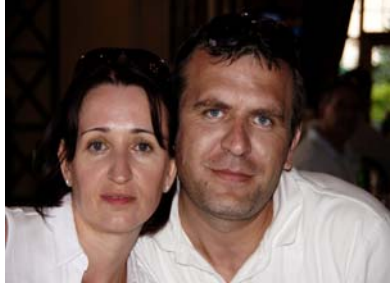
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Best effort is made to include names of all sponsors! We apologize if anyone has been excluded in error. Please advise us of any omissions and we will be happy to include your company's name in a subsequent issue.



A great day on the links !!





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The Innovations Manager will strengthen Autumn Harp's new product development planning process to meet short-term and long-term innovation needs; work collaboratively with the Sales Team to service major accounts with innovative product samples, strong concepts and excellent service; create formulation of hydrous and anhydrous formulations including hot and cold pours, skin care formulations and color cosmetic products. The position will also monitor OTC formulas including SPF sun care and acne treatment products. The successful candidate will have a unique blend of skills: someone who enjoys working independently, enjoys being a partner in business development activities with customers, can manage multiple products and consistently meets customer deadlines and expectations. The successful candidate, in addition to being a hands on formulator and product developer, will also manage a small team of people also responsible for driving the innovation process along for the business. He or she should also have over 10 years of experience with formulating emulsions, natural and sun care products in the cosmetics or like industry.

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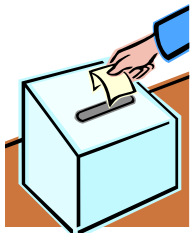
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SCC ONTARIO CHAPTER ELECTIONS!

2012 SCC Ontario Chapter Board Elections

It is time for elections of the 2012 SCC Ontario Chapter Board Members. We have two positions open for election this year: Chair-Elect and Secretary.

Elections are open to all General Members of the SCC Ontario Chapter. Please make your selection, seal the ballot in the BALLOT envelope, **sign the back of the envelope** and print your name in the spaces provided. Mail the Ballot back to the SCC in the pre-labelled envelope.

NOTE: It is necessary to sign the back of the sealed envelope in order for the ballot to be valid and counted. Ballots must be returned by October 31, 2011.

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 3rd, 2011 meeting. Thank you for taking time to vote. Your support of the SCC Ontario Chapter is greatly appreciated.

2011 SCC Ontario Chapter Board Members

Chair-Elect:

Position	Name	Phone	Email
Chair	Dorothy Maraprossians	905-601-8766	dorothy.maraprossians@unipexsolutions.ca
Chair-Elect	Mary Seifi	416-931-1824	marys@tempo.ca
Treasurer	Gary Baker	519-896-1168	gary@geandb.com
Secretary	Dennis Zuccolin	905-513-2383	dzuccoli@maccosmetics.com

2012 SCC Ontario Chapter Candidates

Candidate: Zohreh Fakhim

Zohreh Fakhim has a BSc. in Chemistry from the University of Tehran. She has been working in the Personal Care industry since 2001. She started her career with Apollo Health & Beauty Care as a R&D Chemist and continued in the same field with Cosmetics Labs. Currently she holds a position as a Technical Specialist with Univar Canada Ltd.

Zohreh has enjoyed working in the Personal Care industry since 2001 and has been a board member since 2009.

Secretary:

Candidate: Monika Melao

Monika Melao is a B.Sc. graduate, with Distinction, from the University of Toronto, where she specialized in Biology and Chemistry. She has acquired a broad background since joining Charles Tennant & Company in 1997 and her current role is in Sales and Marketing, with a Personal Care specialty.

Monika has been a member of the Society of Cosmetic Chemists since 2000 and has held positions of SCC Ontario Chapter Board Member, Secretary and Chair.



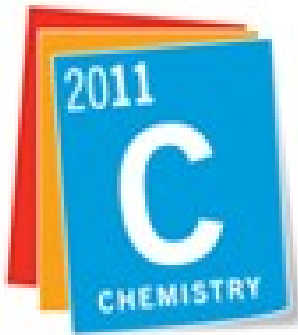
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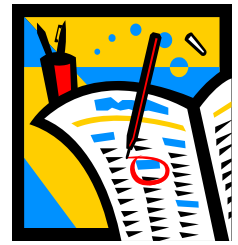
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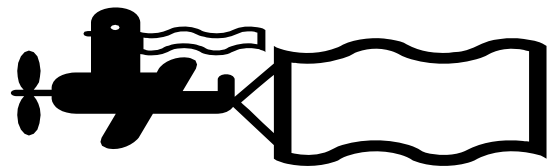
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Industry News

Charles Tennant & Company Forms JV with ESSA Technologies

2011-08-25

Charles Tennant & Company (Canada) Ltd, a division of the UK-based Tennant Group of Companies, has formed a joint venture with ESSA Technologies (US) LLC, as part of its focus on strategically developing new and innovative ingredients for the personal care, cosmetic and pharmaceutical industries.

The joint venture is a strategic alliance of ESSA Technologies' natural-based technology platform and the global resources of Charles Tennant & Company Ltd and is designed to expand and support the market development opportunities within the global personal care and cosmetic markets.

ESSA Technologies is a specialty ingredient supplier of natural based feel modifiers and gelling agents designed to offer the global personal care and cosmetic markets unique, natural based ingredients as functional alternatives to traditional synthetic ingredients.

"Meeting the increased demand by global beauty care manufacturers to provide natural-based, cost-effective, functional alternatives to synthetic ingredients is a primary objective of ESSA Technologies current and future product portfolio," explained Chris Tarletsky, president and founder, ESSA Technologies. "Our Essachem natural-based ingredients provide excellent sensory and texture properties while also allowing chemists to modify the rheological profiles of oils without compromising the desired feel and conditioning attributes of the formulation."

"The strategic integration of Charles Tennant and Company's global resources and infrastructure will enhance the sales, marketing, and customer support for ESSA Technologies natural-based product portfolio," added Kathie Taylor, executive VP-sales and marketing, Charles Tennant & Company. "The partnership between the two companies is in support of Charles Tennant's ongoing strategic initiative to venture or acquire technology driven companies in key strategic markets like personal care and cosmetics."

Charles Tennant & Company Ltd and ESSA Technologies are mutually excited about the formation of this partnership as they align their resources and strategic initiatives to meet and exceed the customer service requirements and product development needs of the global personal care and cosmetic markets.

For more information, please contact:

Chris Tarletsky, President, ESSA Technologies, Ctarletsky@essatech.com; Tel: 908-914-6111

Monika Melao, Sales & Marketing, Charles Tennant & Company Ltd, Mmelao@ctc.ca; Tel: 416-747-3117



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Day & Date	½ Day Course & Golf outing	Technical Presentations	Poster Session	Exhibits	Cocktail reception or Gala
Wednesday: Sept. 14, 2011				Setup, after 4 PM	Cocktail Reception
Thursday: Sept. 15, 2011	½ Day Course & Golfouting			Exhibits	Cocktail Reception
Friday: Sept. 16, 2011		Technical Presentations/ Round Table	Poster Session	Exhibits	
Saturday: Sept. 17, 2011		Technical Presentations	Poster Session	Exhibits	Gala

* Friday's technical presentations will include a round table discussion with top scientists in the sun care industry participating

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NEWSLETTER POSTING DATES FOR 2011

Here are the dates for 2011 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ February 18th
- ◆ May 6th
- ◆ June 30th
- ◆ August 30th
- ◆ October 20th



(or as close as we can get)

Should posting dates change throughout the year the most up to date list can be found at <http://www.ontarioscc.org/newsletters.htm>

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Unemployed and Emeritus members may continue to attend monthly meetings free of charge. Please contact the registration booth upon arrival.

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7 Websites for cosmetic chemist innovation inspiration

by Perry Romanowski
on 08/23/2011

You should be familiar with all the website dedicated to cosmetic science such as the various industry magazine websites, the regulatory websites, and the cosmetic chemistry blogs. We've previously written about all of them.

However, to break out from the crowd to develop really innovative ideas, you'll need to keep tabs on what is going on in other areas of science. There are some great websites to help you do that. Here are 7 of our favorite, non-cosmetic science focused websites that will be useful to cosmetic chemists.

Discoverybuzz.com – Here is a website which will keep you updated on the latest, coolest discoveries throughout the world of science. Most relevant are the Biology and Chemistry categories. <http://discoverybuzz.com/buzz/>

Discover Magazine – Some of the best online writing about science. All categories are covered but the Health & Medicine articles as well as the Biology and Chemistry ones are most applicable to cosmetic science. <http://discovermagazine.com/>

Eurekalert – One of the best aggregators of scientific news releases from all over the world. Every science topic is covered and you get the latest news. A great place for new ideas. <http://www.eurekalert.org/>

The Naked Scientist – They do an excellent, entertaining podcast but they also publish a number of articles about general science topics. Check out the biology, chemistry, nature and medicine categories for new ideas. www.thenakedscientists.com/

The Why Files – An interesting application of science to the news. This site isn't specifically focused on chemistry or biology but it provides an interesting look at how science is applied to every day news stories. <http://whyfiles.org/>

Science Daily – Another aggregator of science news releases. This one is organized a bit better than Eurekalert but covers many of the same topics. Excellent source for new news. <http://www.sciencedaily.com/>

Wired Science – Really interesting general science topics. Often you'll find something that can inspire a new idea in your cosmetic formulation efforts. <http://www.wired.com/wiredscience/>

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

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- **Gum Rosins, Esters of Gum Rosin, Hydrogenated Gum Rosin**
- **Others:** Propylene Glycol, Hydrogen Peroxide- 35% & 50%, Caustic Soda- beads, IPA99%, Sulfamic Acid, Zinc Sulphate, **Polysorbates- 20, 80**
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UPCOMING EVENTS

September 22nd, 2011 The Venetian, Vaughan ON	SCC Ontario Education Day- "Skin, what we know and what we should know"
November 3rd, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting-"MAKEUP ART, VISUAL ART: Story-telling by Market for Success" Sarah Major, Estee Lauder
November 25th, 2011 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance
December 8th & 9th, 2011 The Hilton, New York City	SCC Annual Scientific Meeting & Technical Showcase
May 31st & June 1st, 2012 Charleston Marriott, South Carolina	SCC Annual Scientific Seminar



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MEMBERSHIP

For those who would like to become members, yearly fees are \$130 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.

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Dues Renewal

Renewal notices for 2012 membership were sent out in August. The second notices will be sent early October and final notices will be sent end of November. Dues fees are US\$130.00.



Please note you can now renew ON-LINE! Go to www.SCCOnline.org and follow the links.

Members who do not renew by December 31st will be made inactive.

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NORTHERN HIGHLIGHTS

The SCC Ontario Chapter's Newsletter

135 Shuh Avenue
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October 2011

Volume L

2011 Ontario Chapter Officers

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SCC ONTARIO CHAPTER MEETING

THURSDAY NOVEMBER 3RD ,2011

"Oil Soluble Silicones"

PRE-REGISTRATION IS REQUIRED FOR EDUCATION DAY.

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 October 31st ,2011.

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 Gary at:

gary@geandb.com

or by fax at (519) 896-7350 OR on-line at:

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

(If registering by mail please use the form on the back page)

SCC ONTARIO CHAPTER MEETING

THURSDAY NOVEMBER 3RD ,2011

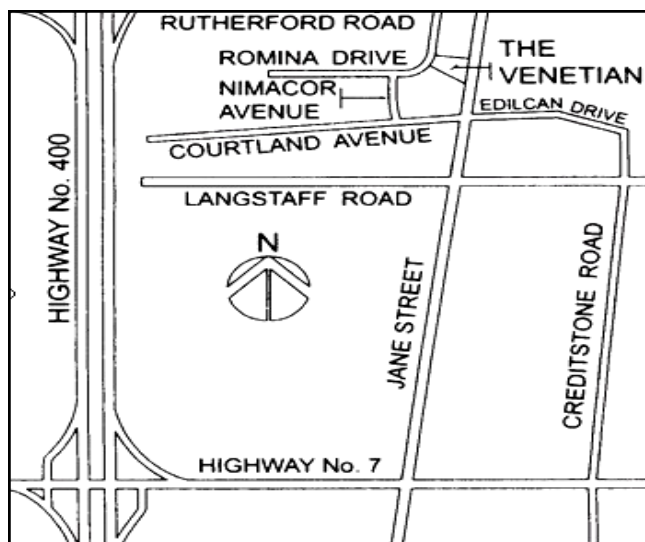
“Oil Soluble Silicones”

Tony O’Lenick, Siltech Inc.

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:

Silicone polymers have become important ingredients in many categories of products. A very interesting and not very well understood class of silicone polymers are the alkyl silicones. They are soluble in oils, but have surface activity in the oils to which they are added. Properly selected, they can lower surface tension making oils more silicone like. They can gel oils making materials with unique aesthetics and melting points. This technology has application in creams and lotions, pigmented products, sun care and emulsion based products. Representative products and a model for evaluation of effectiveness will be presented

Bio: Anthony J. O’Lenick, Jr.

Tony O’Lenick is President of Siltech Inc. in Dacula, Ga. Siltech Inc. is a silicone and surfactant specialty company. Prior to that he held technical and executive positions at various surfactant and specialty chemicals companies including; Alkaril Chemicals Inc, Henkel Corporation and Mona Industries. He has been involved in the personal care industry for over 30 years and is a Fellow in the society of Cosmetic Chemists.

Tony is the author of Surfactants Chemistry and Properties; Silicones for Personal Care, Organic Chemistry for Cosmetic Chemists, Oils of Nature, Patent Peace of Mind and has edited several books including Naturals and Organics in Cosmetics: Trends and Technology, Microorganisms and Cosmetics, Formulating Strategies in Cosmetic Science, He has also published over 40 technical articles in trade journals, contributed chapters to five books, and is the inventor on over 300 patents and teaches a course in silicone chemistry at SCC. He has received a number of awards for work including the 1996 Samuel Rosen Award given by the American Oil Chemists’ Society, the 1997 Innovative Use of Fatty Acids Award given by the Soap and Detergents Association, and the Partnership to The Personal Care Award given by the Advanced Technology Group. Tony was a member of the Committee on Scientific Affairs of the Society of Cosmetic Chemists.

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Presenters Welcome!!!



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

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

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The members of the SCC Ontario board would like to express a sincere THANK YOU to

“American Elements” who generously donated the Periodic Table fridge magnets that were distributed to attendees of the Education Day on September 22nd. The gesture was greatly appreciated and very fitting for our industry. For more information about American Elements please go to;



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Programs and Privileges

Journal - Membership includes subscription to the Journal of Cosmetic Science, the Official Journal of the Society of Cosmetic Chemists. The Journal contains technical papers on topics of interest to cosmetic scientists and is distributed six times per year.



Meetings & Seminars - The Society holds its Annual Scientific Meeting each December and its Annual Scientific Seminar each May. The Meetings and Seminars provide a forum for an exchange of current findings and technology on topics of global interest in cosmetic science.

Continuing Education Programs - Our CEP Programs are short courses taught by practicing cosmetic scientists and perfumers, all acknowledged experts in their disciplines.

Chapters - Each member is assigned to one of seventeen Chapters throughout the United States and Canada, according to his or her geographic location. Chapters hold local scientific meetings throughout the year, and many publish their own newsletters.

I.F.S.C.C. - The Society of Cosmetic Chemists is one of 42 member organizations within the International Federation of Societies of Cosmetic Chemists.

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HOLIDAY DINNER DANCE



On November 25th , 2011 the SCC Ontario Chapter will be holding its fifteenth Annual Holiday Dinner Dance at The Venetian Banquet & Hospitality Centre, 219 Romina Drive, City of Vaughan, ON, L4K 4V3 (tel: 905-264-9960)

Start the evening at 6:00 p.m. by enjoying the specialties from the Antipasto Table. Dinner will follow at 7:00 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.

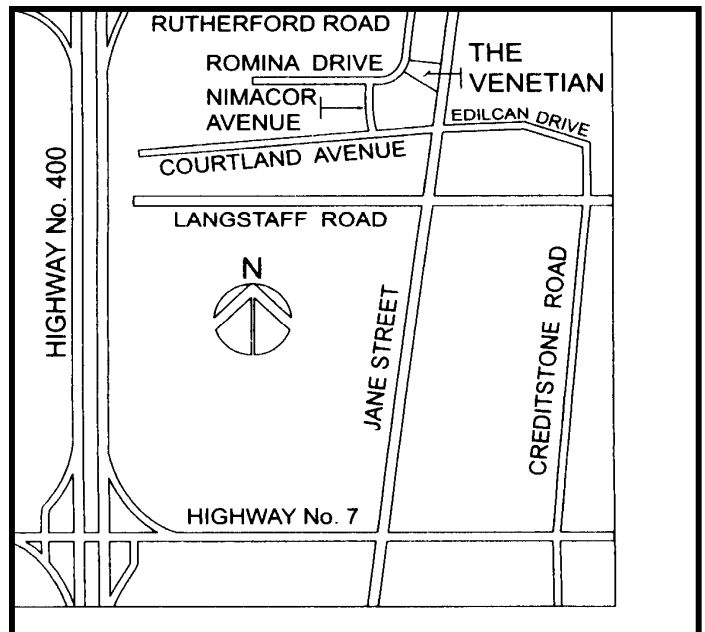
The price is \$100 per person and Corporate Tables of 8 at \$800.00 or 10 at \$1000 are also available.

Please RSVP to Janice Cukier at 416-889-4782 or by fax to 905-458-0722 by November 16th.

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. If you do not receive your invitation, please use the RSVP form found on page 9.

MENU

Antipasto Bar
Squash Soup
Fresh Linguini with Tomato and Basil Sauce
Chicken Veneziana
Teriyaki Salmon
Baby Carrots
Snow Peas
California Mix Salad
Seasonal Fruit
Sweet Table with Assorted Cakes and Pastries
Specialty Coffees Fresh Waffle
Vegetarian Option: Eggplant Parmesan





Ontario Chapter



Holiday Dinner Dance

R.S.V.P.

Friday, November 25th, 2011

***Please reply to Janice Cukier at 416-889-4782
Or FAX 905-458-0722 by November 16th, 2011***

I/We will be attending,

Name: _____

Number of Persons: _____

I would like to be seated with _____

or

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

or

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

_____ number vegetarian meals required

Total amount enclosed: \$_____

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

Mail to: 135 Shuh Avenue, Kitchener, ON, N2A 1H4

If confirmation is not received by November 21st, 2010, please contact
Janice Cukier at 416-889-4782

Please forward confirmation to:

Name: _____

Company: _____

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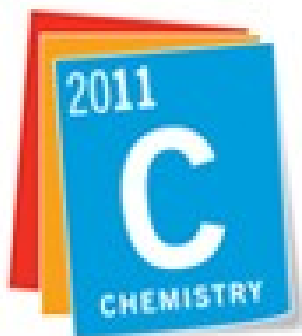
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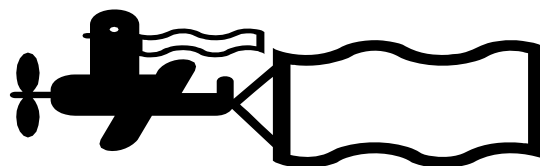
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NEWSLETTER POSTING DATES FOR 2011

Here are the dates for 2011 that the Northern Highlights Staff plan to post the 5 newsletters for the year;

- ◆ February 18th
- ◆ May 6th
- ◆ June 30th
- ◆ August 30th
- ◆ October 20th



(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>

ATTENTION MEMBERS

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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;



<http://www.sconline.org>

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On Formulating a Greener Shampoo

by Perry Romanowski on 10/17/2011



Next week I'm giving a talk on cosmetic sustainability at the Southwest SCC monthly meeting. It should be fun. This is a hot topic in the cosmetic industry and it is particularly of interest to formulators who are interested in creating "Natural" formulations.

In preparing the talk, I investigated natural and sustainable formulations and thought you might be interested in what it takes to create a natural shampoo formulation.

Natural Shampoos

Shampoos are made up of only a few types of ingredients including...

1. Diluent (usually water)
2. Surfactant (primary & secondary)
3. Thickener
4. Preservative
5. Fragrance
6. Colorant
7. Conditioning ingredient
8. Feature ingredient

For standard shampoos, "synthetic ingredients" are typically used for everything except the diluent and the feature ingredients. Finding natural alternatives for the rest of the cosmetic ingredients is the challenge of the natural formulator. Here are some options.

Natural Surfactants

There are not many options for truly natural surfactants. It turns out that nature just doesn't make many that work great for cleaning. Certainly not for creating the foam that people expect from a shampoo. Your best options for a sustainable, acceptably natural surfactant are Alkylpolyglucosides. Decyl Polyglucoside is made from starch and a fatty alcohol and can work. You'll need to add a secondary surfactant to improve its foaming.

Natural Thickeners

One problem with using a natural surfactant like APG is that it won't thicken up readily when you add salt. Therefore, you have to add a thickening agent. A variety of natural gums can be used including Guar gum, Karaya gum, and xanthan gum. You have to experiment to get the right thickness without making the formula feel too slimy.

Natural preservatives

It's tough to find something that will work well enough and still be considered "natural". However, you can try any of the [natural preservatives](#) we've previously suggested. Phenoxyethanol and benzoic acid are commonly used.

Natural Fragrance

For fragrance you can pretty much use a number of the different essential oils available. It's not difficult to make a decent smelling, all-natural fragrance. However, it is more expensive.

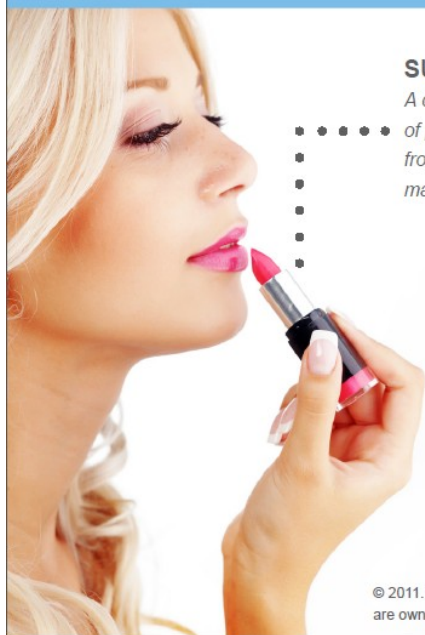
Natural Colorants

There are a number of options for natural colors. Annatto is used to make red and orange products. Chlorophyll can be used to make green colors. Other natural colorants would include berry extracts, red oak bark, henna and walnut. Unfortunately, natural colors are prone to oxidation and can degrade over time.

Natural Conditioning Agents

There are not many that are as effective as polymeric conditioners or silicones. You can try things like banana pulp derivatives, plant gums, chitin and chitosan. Also, natural oils and waxes may be suitable options. Formulating natural products is much more difficult than standard formulating. The products will tend to be more expensive, be less aesthetically appealing, and will not work as well. It's just really difficult to make the best performing products when you aren't allowed to use all the ingredients available. However, with trial and error you can make suitably natural formulations that will appeal to consumers concerned with sustainability.

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Industry News

TC USA, Inc. Acquires Zenitech, LLC

TC USA, Inc., a wholly owned subsidiary of Charles Tennant & Company (Canada) Ltd, a division of the UK based Tennant Group of Companies, announces the acquisition of the US specialty polymer supplier, Zenitech, LLC. The acquisition is a continuation of Charles Tennant Ltd's strategic initiatives in developing new and innovative ingredients for the Personal Care, Cosmetic, and Pharmaceutical industries.

Zenitech provides the global Personal Care & Cosmetic markets with patented, multi-dimensional, and specialty polymers derived from natural based intermediates. Such products improve the moisturization, conditioning, glossing, and film forming properties of cosmetic and beauty care formulations.

Kathie Taylor, Executive Vice President Sales and Marketing for Charles Tennant & Company says,

The strategic acquisition of Zenitech and Charles Tennant & Company's global resources and infrastructure will enhance the sales, marketing, and new product development initiatives for the Zenitech portfolio. With this acquisition, we want to achieve a recognized position as a supplier of performance driven, highly functional, cost effective, natural and natural based specialty ingredients in the global Beauty Care market... The acquisition of Zenitech and the recently formed joint venture with ESSA Technologies, further enhances Charles Tennant's ongoing strategic initiative to venture and/or acquire technology driven companies in key strategic markets like personal care and cosmetics.

"Now, we will have an even wider offering of functional and highly innovative products and services for our customers worldwide, widening our portfolio of fine chemicals, customer commitment, and global resources for the Beauty Care market," added Robert MacPhail, CEO and President of Charles Tennant & Company.

For more information, please contact:

ktaylor@ctc.ca

Kathie Taylor, Executive Vice President Sales and Marketing, Charles Tennant & Company



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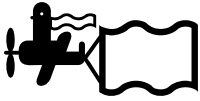
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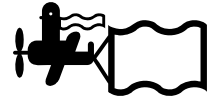
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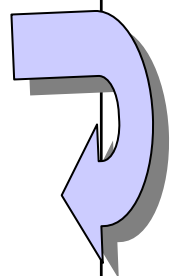
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UPCOMING EVENTS

November 3rd, 2011 The Venetian, Vaughan ON	SCC Ontario Chapter Meeting- "Oil Soluble Silicones " Tony O'Lenick, Siltech Inc.
November 25th, 2011 The Venetian, Vaughan ON	SCC Ontario Holiday Dinner Dance
December 8th & 9th, 2011 The Hilton, New York City	SCC Annual Scientific Meeting & Technical Showcase
May 15th & 16th, 2012 Raritan Centre, Edison New	Supplier's Day 2012
May 31st & June 1st, 2012 Charleston Marriott, South Carolina	SCC Annual Scientific Seminar
July 17th, 2012 Caledon Woods Golf Club	SCC Ontario 11th Annual Golf Tournament



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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.

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Dues Renewal

Renewal notices for 2012 membership were sent out in August. The second notices will be sent early October and final notices will be sent end of November. Dues fees are US\$130.00.



Please note you can now renew ON-LINE! Go to www.SCCOnline.org and follow the links.

Members who do not renew by December 31st will be made inactive.

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