



Ohio Valley Chapter
of the
Society of Cosmetic Chemists

September Meeting
Wednesday, September 19, 2012

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5:00pm - 6:00pm: Cocktail Hour
6:00pm - 9:00pm: Dinner/Talk

A New Web-based Imaging System

Presented by:

Dr. Greg Hillebrand
Procter & Gamble
Cincinnati, OH

The seminar abstract and Dr. Hillebrand's Bio follow on Page 2 – read on!

Registration Information	
Please Register by: 9/17/12	
Members	\$45
Non-members	\$55
Student Members	Free

Register at www.ovscc.org



2012 Issue 3

A New Web-based Imaging System

ABSTRACT

Facial imaging and quantitative image analysis of facial features is essential in dermatologic and cosmetic clinical investigation. This is typically accomplished using standardized imaging rigs with highly controlled image capture environments for use in clinics, spas or at retail cosmetic counters. A web-based imaging system could extend this kind of service into the home at low cost. Users could upload their personal image and server-based software would analyze the image for skin problems, offer treatment advice and allow users to track changes in skin condition over time. This can help make obvious the visible benefits of skin care treatments and is especially helpful for treatments that require weeks or months to show a cosmetic benefit. This in turn can provide valuable reassurance the treatment is working, promoting commitment to the skin care regimen and improving overall satisfaction.

However, sources of image capture variation such as lighting, camera resolution, and freedom of motion pose significant technical hurdles. We addressed this issue by including a calibration standard in the form of a paper headband that is worn by users during facial image capture. The standard includes a color chart spanning the range in human skin tone and distance rulers for spatial resolution. Server-based algorithms use the standard to automatically correct the image for variation in lighting and other variables that would otherwise prevent a reliable skin analysis. Greg will demonstrate the system and present results from studies aimed at validating the system for reproducibility, accuracy and user acceptance.

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A New Web-based Imaging System

SPEAKER BIO

Dr. Hillebrand is currently Principal Scientist in Procter & Gamble's global skin care research and development organization based in Cincinnati, Ohio. Originally from Michigan, he received his BS in biochemistry from Michigan State University, his PhD in biochemistry from Baylor College of Medicine in Houston, and a postdoctoral fellowship, also in biochemistry, from the University of Illinois. He joined P&G in 1986. His primary research interest is the epidemiology of skin aging and he has numerous publications, patents and academic research collaborations in this area. He has been a member of the USA Society of Cosmetic Chemists since 1991 and has served on a variety of committees and positions including President in 2005. His current passion, outside of work, is playing the didgeridoo.



Dr. Greg Hillebrand

Join us for Dr. Hillebrand's talk on
September 19, 2012
Register at www.ovscc.org





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Bulletins from the Board

OVSCC Members,

Now that the Summer is coming to a close and everyone is fully rested, it is time to look forward to the OVSCC last events for this year.

We have two monthly meetings left, the first one on September 19th and our final meeting of the year which is "Student Night" on November 14th that will be held at the new and exciting "Crave".

And last, but not least our annual OVSCC Golf Outing on October 2nd. The funds raised by the golf outing benefits our Chapter and its members.

I welcome all members and guests to attend all of these remaining venues.

It is not too late to apply to become an officer for the 2013 OVSCC year. If you are interested please contact myself or any OVSCC Board Member.

See you at our next meeting.

Joe Jenzio
OVSCC Chair 2012

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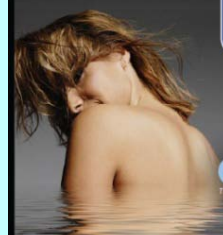
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Renew your SCC membership now...

2013 Annual Dues News:

Dues renewals for 1013 have been mailed to all members – don't forget to renew today.

You can pay your dues online! Just [click here](#).

To note: Dues Payments received after December 31, 2012 will be charged a \$25 late fee.

The last day to make a payment for 2013 Dues online is January 4, 2013.



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Basic Polymers: October 29, 2012

Advanced Polymers: October 30, 2012

Cosmetic Raw Materials for Skin Care Products

Instructed by Ricardo Diez, Ph.D.

Double Tree by Hilton Newark Airport

Basic: Advances in Skin Care via New Material and Technologies: October 29, 2012

Advanced: Raw Material for Cleansing and Skin Care Products: October 30, 2012

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Skin Diseases and Dermatopharmacology

Instructed by Linda Rhein, Ph.D.

November 7, 2012

Double Tree by Hilton Newark Airport

REGULATORY UPDATE

Instructed by David Steinberg

December 5, 2012

New York Hilton

Cosmetic Raw Materials

Instructed by Mark Chandler

December 5, 2012

New York Hilton



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2012 OVSCC Golf Outing

14th Annual OVSCC Education Scholarship Golf Outing

Twin Oaks Golf & Plantation Club - KY

Tuesday - October 2nd, 2012

Shotgun start: 10:30 am, Registration start: 9:00 am

Hole Sponsorship \$150 + 2 dozen golf balls.

Cost to Play \$100/per person and includes:

18 holes green fees and cart fees

Lunch ticket (choice of sandwich & chips)

Draft Beer, Unlimited Sodas, & Bottled Water

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Please contact Julie Moser for questions, hole sponsorships, and reservations by Sept 26th at (513) 241.4555 or email julie.moser@onassignment.com.

You can also register online at OVSCC.org



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2012 Issue 3

Advice to the Lab Lorn

"Advice to the Lab Lorn" is intended to offer advice, pertinent information or maybe just solace, for confusing, challenging or downright murderous issues facing SCC members in their labs. Send us your questions at lablorn@calisccc.org and we'll track down an authority or two and get back to you in the next offering of the Lab Lorn. We won't publish your name for all to see. Your secrets are safe with us.

John Garruto – President, Free Radical Technology – Editor

Q. There are so many different standards and test methods for determining a product's stability. What is the best or most accepted criterion for general stability testing?

There is a number of acceptable criterion for testing a product's stability under various conditions. As such, there are no "set" standards with respect to test conditions, duration and what exactly the test results elaborate with respect to a product's shelf life. It is important to test in real time and under accelerated conditions, to ascertain and ensure the stability and integrity of the products under appropriate conditions. These conditions will include storage, transport and consumer use as well as physical and microbiological stability, and compatibility of the contents with the container.

We have reviewed various publication and articles and compiled a synopsis which dovetails well with what we use in our own laboratory. That being said, the following is a "quick and dirty" guide to the basics of product stability testing.

Before you establish your optimum test conditions and other relevant criteria, you will need to establish which parameters are important to you to monitor. Generally, you test criterion will include appearance, pH, viscosity, color, odor, gravity as well as microbial stability and possibly analytical evaluations for key components or drug actives. It will be necessary to create a large lab sample to fill your test containers whether they are standard laboratory glass containers or actual packaging components or preferably both. Often it is a good practice to run stability testing from a pilot batch to replicate actual production conditions, equipment and blending dynamics.

Products are routinely tested at various temperatures which can include 25°C, 37°C, 40°C, 45°C and 50°C. You should always store products at 25°C for a minimum of one year, preferably for two or three years, if possible. There is no perfect substitute for

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ISO 9001

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Advice to the Lab Lorn (continued)

room temperature storage and the longer you can observe a product at ambient use temperature, the better you will understand the true shelf life over time. Additional testing at higher temperatures is also essential. I prefer testing at 40°C for three months along with one month at 50°C. Occasionally 50°C may be too high for some products but for most products you will gain critical data in a very short period of time, especially for color/odor degradation and product syneresis. It is also advisable to store samples at 4°C as occasionally some products can exhibit turbidity or other changes at this temperature.

Products should be tested at regular and consistent intervals. It is usually advisable when running a 3-month evaluation, to test weekly for one month, after two months and finally at the three month interval. If testing at 50°C for one month, the testing should be done on a weekly basis. You will not only record various readings for appearance, pH, viscosity, specific gravity, etc. but also monitor whether there is any syneresis or product separation at the top or bottom of the container, precipitation, turbidity or other unacceptable consequences of testing under various storage conditions.

It is also essential to perform freeze/thaw testing for two reasons. First, you are able to place a product under abnormal stress conditions to demonstrate whether your system is truly robust, and secondly, you are able to replicate shipping and storage conditions for various locales and climates. Generally a product is stored at -10°C for 24 hours and then removed and allowed to thaw to 25°C. Test the sample and record the details. It is always a good idea to freeze three samples for a 3-cycle freeze/thaw test in order to properly examine and test the product after each cycle. As such three samples are frozen and then thawed, one is tested and the other two are stored again for 24 hours at -10°C and the process is repeated until the last sample that has been cycled three times is tested and recorded. If a product can withstand 3-cycle freeze/thaw testing, one month at 50°C and three months at 40°C, you can be reasonably assured that your product will be rigorous enough to be sold in the marketplace for 18-24 months. If additional shelf life is required, the duration of the test may extend up to 6 months at 40°C, which could reasonably be expected to demonstrate 30 month stability assuming all test criteria including microbial stability are met.

(Continued on page 10)

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Advice to the Lab Lorn (continued)

Additional test criteria may include light testing as light may significantly alter the color and odor of a product and lead to the degradation of formulation ingredients. In conducting the study, the light source can be sunlight captured through glass panels...a window with good sun exposure will work quite nicely for this or lamps that have an emission spectrum similar to that of the sun, such as xenon lamps. Ultraviolet light sources can also be employed.

Lastly, you will always need to perform some type of package stability/compatibility testing. Often times you may not have the final, decorated package when you are ready to conduct all of your stability testing. In this scenario, you might test in laboratory glass containers and run a simultaneous test in packaging that is equivalent in composition (PE, PP, PET, PS, PVC, etc) and of similar geometry and closure. Once the final packaging arrives, it is advisable to rerun the stability testing if time allows or perform an accelerated package stability test at 45°C or 50°C for one month. You should monitor the samples weekly for various criteria which will include the adherence to physical stability standards as well as weight loss, appearance and functionality of the package, product dispensing and any interaction or migration of components between package and product. Product should also be applied to the package decoration (silkscreen/litho, label, etc.) to determine that the package decoration will withstand exposure to the product. It is advisable to apply the product to the decorated area of the package and insert it into a plastic bag and place in an oven at 40°C for 1 week to test for any degradation of the package decoration.



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27th IFSCC Congress Oct 15-18, 2012 • South Africa “Beauty in Diversity – A Global Village” information at: www.ifsc2012.co.za

After years of anticipation and preparation the IFSCC Congress is almost upon us. Below is a short overview of the progress made to date as well as what can be experienced at this world-class event:

Programme: The Scientific Programme boasts 220 papers. These papers showcase the most up-to date scientific research, in that they have not been previously presented or published. Over the three day period, 60 oral papers will be presented with the remaining 160 papers forming part of our impressive poster session. Poster presenters will be available during specific time slots to discuss their posters. We invite you to make use of this opportunity to view and discuss the research undertaken by these outstanding scientists. Please visit www.ifsc2012.co.za to review our comprehensive Scientific Programme.

Registration: Do not miss this opportunity! Although our Early Bird Registration has closed, we are here to receive your registration right up until the start of the Congress. We invite you to make use of this once in a lifetime opportunity to participate in this prestigious international scientific event. To date 420 delegates have registered and we anticipate that the number of attendees will increase as the Congress draws closer. Register on line at www.ifsc2012.co.za

Social Programme:

Our exciting Social Programme includes an African Frenzy Opening Ceremony featuring custom made entertainment for the evening. A Networking Evening, where we will visit the Carnivore Restaurant, an African dining experience not to be missed. Our Grand Finale will be in the form of a Gala Banquet featuring “Sterling EQ”, a Classical Crossover String Quartet. Recognition will also be paid to the top scientists during the evening when the IFSCC Awards are presented.



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Save the Dates!



Exhibition:

The Cosmetex Exhibition will be run concurrently to the IFSCC Congress, visit www.cosmetex.co.za for more details.

Sponsorship: We would like to thank our sponsors for their involvement without which this Congress would not have been possible.

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Please feel free to visit our website for further updates (www.ifsc2012.co.za) and do not hesitate to contact us should you have any questions about the event.

Kind Regards
IFSCC 2012 Steering Committee



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And don't forget...



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In closing...

The Ohio Valley Chapter Newsletter is published in February, April, September and November prior to each chapter meeting. Questions concerning the newsletter content should be directed to the Newsletter Editor. For information on paid advertising please contact our Business Manager.

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