



Ohio Valley Chapter of the Society of Cosmetic Chemists

April Meeting Information

Wednesday April 15th, 2009

"Polymer Trends in Cosmetics"

Presented by: Dr. Robert Lochhead

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Location: Dave and Buster's
11775 Commons Drive (near Tri-county Mall)
Springdale, OH 45246
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Times: 5:15 – 6:00 pm Registration/Cocktails
6:00 – 6:45 pm Speaker
6:45 – 8:00 pm Dinner

Registration Information	
	Registration Closes 4/13
Members	\$35
Non-members	\$45
Students	Free

*** Easy registration & payment at www.ovscc.org ***

Abstract: This presentation reviews recently published patent applications and tries to identify trends in the use of polymers for hair care. In hair care, the major trends of the last year have been directed towards more durable products, from color to conditioning to styling. Innovative approaches to the reduction of VOC's are also apparent. There appears to be a move toward new cationic polymers as actives for conditioning shampoos and also formulations for better deposition of antimicrobial actives, including antidandruff shampoos. During this period there has also been intense IP activity reflecting innovations in hair coloring, mainly from two companies. In skin care, there are claimed breakthroughs in moisturizing and anti-wrinkle benefits using hyalurans, polymers for deposition, controlled delivery and release of therapeutic agents and fragrances; starburst polymers for precise gel formation, silicone acrylates for compatibility in polar formulations, and ingredients for structuring and stabilizing hydrophobic compositions. Then trends will be updated immediately prior to the lecture. Innovation in personal care products is continuing unabated.

About the speaker: Dr. Lochhead is currently Chair of the School of Polymers and High Performance Materials at the University of Southern Mississippi. He earned his B.Sc. with honors in Chemistry and a Ph.D. in Physical Chemistry from the University of Strathclyde, Scotland. Dr. Lochhead was also a Fulbright Scholar at Carnegie-Mellon University. He was the recipient of the 2000 Maison G. deNavarre Medal Award, the Society's highest honor.

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Notes from the Chair

A great big hello and a happy Spring to all of the members of the Ohio Valley Chapter of the SCC or the OVSCC for those of you who are fond of acronyms. I'm having a hard time concentrating on writing this as I longingly stare out the window wishing I was outside enjoying the weather... but I digress.

We come to you this month with two big announcements. The first is that this issue will mark our first edition as an electronic only newsletter. Our reasons for moving away from the hardcopy version are numerous. By switching to only an e-version of our newsletter we will save the chapter somewhere in the range of \$1500 annually. We can also now tell everyone how we are being "green" and pat ourselves on the back for all of the tress that will be spared due to our efforts. Finally, it will save yours truly some valuable time that I could be spending out enjoying the weather. If there is a reason that you would still like a hard copy please let me know and I will have one sent to you. We have made arrangements to accommodate the few members that we have without email access (smart people as I like to call them) and will gladly provide a hard copy to anyone who would like one.

Our second announcement is about our April CEP course and monthly meeting. We are very fortunate to be able to bring in the esteemed Dr. Lochhead to present not only a seminar for us on the use of waterborne polymers in cosmetic formulations but also have him as a speaker for our meeting in the evening. For those of you who have ever had the privilege of attending a talk by Dr. Lochhead you know what a fantastic speaker and resource he is; for those of you who have not, be sure to register for both events and you will not be disappointed. His lectures are not only incredibly informative but also very entertaining. Please take a look at both of the announcements in this newsletter for more information on the talks and let us know if you have any questions. Ken Kyte has chosen another fun venue for the events and we expect a very good turnout.

As always I would like to throw out our quarterly plea to the membership for further involvement in the society. Have you seen a speaker that you think would be good for one of our meetings? Have you ever attended a seminar or class that we could bring in as a CEP course? Is there a venue that you would recommend for a monthly meeting? Would you like to write an article or recognize a member for an outstanding achievement? I'll take anything you throw at me. Now that we are moving to the electronic format we've got room for it all. That's enough from me. I'll see you all at the April events. And until next time, keep enjoying our wild America!

Brandon Lane

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CEP COURSE ANNOUNCEMENT

The Use of Waterborne Polymers in Personal Care Formulations

Wednesday April 15, 2009

8:30 – 4:30pm

Dave & Buster's Tri-County

Presented by: Dr. Robert Lochhead

The Institute for Formulation Science

The School of Polymers & High Performance Materials

The University of Southern Mississippi

The use of waterborne polymers in personal care has become ubiquitous. Their many uses include:

- **FILM-FORMERS**
- **THICKENERS AND RHEOLOGY-MODIFIERS**
 - **EMULSION-STABILIZERS, GELS, BINDERS, HAIR COLORANTS & HAIR-RELAXERS**
- **EMULSIFIERS**
 - **LOTIONS, SUNSCREEN, HAIR-COLOR**
- **DEPOSITION AND DELIVERY AGENTS**
- **CONDITIONERS**
- **MOISTURIZERS**
- **EMOLLIENTS**
- **DISPERSERS**
- **WATER-PROOFERS**
- **CONTROLLED RELEASE MATRICES**

This course will review the polymer chemistry and formulation strategies that are applicable to each of these topics.

For more information or to register please visit www.ovscc.org

OVSCC 2009 Save the Dates

April 15th (Day)

April 15th (Evening)

September 16th

October 6th

November 18th

OVSCC Seminar

OVSCC Meeting

OVSCC Meeting

Golf outing

Student night



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Q. We are asked if our products are "gluten-free". What are the sources of gluten in personal care and why is it of concern?

A. The term "gluten" refers to a specific complex of insoluble proteins chiefly gliadin and glutenin that forms when wheat (also rye and barley) flour is mixed with a liquid and physically manipulated, such as in the kneading of dough to make bread. Interestingly, glutenin gives strength and gliadin provides elasticity to the dough and the bread it is made with...so far, so good.

The dilemma is that approximately 1% of the world's population has Celiac disease, a condition which results from an inappropriate immune system reaction to gluten. When people with Celiac disease eat foods that contain gluten, a response is triggered by the body's immune system that ultimately damages the lining of the small intestine. Over time, this interferes with the absorption of nutrients and can lead to a wide range of serious problems. Because of this, people with Celiac disease must avoid eating anything with gluten in it.

Since wheat is the principal source of gluten and a fairly common ingredient source for some personal care products, it is perfectly reasonable for those with Celiac disease to question cosmetic companies about their products and ingredients relative to their gluten content...or is it? Celiac disease is triggered by eating gluten, not by having it touch your skin, so gluten-free cosmetics and skin-care products may not be necessary unless the product is going to enter your digestive tract. The obvious exception here is for lipstick or other products applied to area of the lips or potentially ingested such as mouthwash and toothpaste.

Additionally, gluten like other proteins is a high molecular weight polymer of various amino acids and as such is not likely absorbed through the skin anyway. Nevertheless, the questions and the perceptions persist, so if there is an inquiry on the subject, it is probably in your best interest to contact your supplier to inquire about the gluten content of their materials that are made from wheat, barley, rye and to a far lesser extent, oats.

The U.S. FDA and WHO Codex Alimentarius have set a preliminary threshold of less than 20ppm of gluten for a gluten-free claim. Why 20ppm? This level is proposed based on available analytic methods. Data from peer-reviewed scientific literature demonstrate that current analytic technology can only reliably and consistently detect gluten at levels of 20 ppm or higher in a variety of foods and other materials. As such levels of less than 20ppm are considered to be "gluten-free". This is especially important to consider when you are calculating the gluten content of your product. Specifically, if you are using a raw material that has a gluten content of 200ppm, you may use up to 10% of this material in your product before reaching the target threshold of 20ppm. Lastly, other non-gluten based proteins derived from soy, rice and potato are potential substitutes for materials with high gluten levels.

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