SWOP EMULSIONS

Jeffrey Parker
Sr. Manager of Technology-Personal Care,
Cognis Corporation

ABSTRACT
Cosmetic Chemists are constantly challenged to create formulas that have a lasting caring effect with light aesthetics. This challenge is also experienced in the formulation of water resistant emulsions. While this caring effect or water resistance can often be achieved by the formulation of W/O emulsions, their initial heavy aesthetics are generally not preferred by the North American consumer. By contrast, O/W emulsions have a more preferred, light initial aesthetic profile, but often do not have the final benefits mentioned above.

To help solve this challenge, Cognis has been exploring the formulation of meta-stable emulsions. These emulsions start off as O/W emulsions, but when applied to the skin quickly transition to W/O. In this meta-stable concept, one can achieve the light initial aesthetics of O/W while having the final benefits of a W/O emulsion. This talk will explore the concept of meta-stable emulsions and the measurement techniques associated with their development.

BIO
Jeffrey Parker is currently Sr. Manager of Technology-Personal Care for the Care Chemicals Division of Cognis Corporation. In this role he is focused on helping to develop and promote Green Chemical Solutions to the Personal Care Market in North America. Prior to joining Cognis, Mr. Parker worked for the Inolex Chemical Company as Personal Care Technology Manager. Mr. Parker has also worked as a formulation chemist for Chanel Inc. and Medicia Corp.

POSTER PRESENTATION
During Social Hour 5:30pm - 6:30pm

THERMAL ANALYSIS OF COSMETICS
Blaine Weddle
Midwest Technical Representative - Mettler Toledo

Don't Forget the 2010 Attendance Contest
Members who attend every meeting through November will be eligible for the contest with bonus points for attending Teamworks, the Golf Outing and the Technical Symposium. We will not be using the game cards, we'll keep track for you. So register early and join us for meetings!
Carlson’s Corner

Teamworks and our monthly Chapter meeting offered many great educational opportunities in March. Now it's finally spring and April showers are bringing more exciting Midwest SCC events.

Our March meeting at the Parthenon was a hit! Frank Wagner gave an excellent talk on Optimizing Foam and Mildness with Sultaines. He made it easy to understand by comparing Sultaine to our common workhorse Betaine and using excellent charts and graphs.

The Teamworks Social Night, Educational Seminar and Trade Show (our biggest event of the year) was such a great success and so well attended. Thank you to Margie Best, Kristin Kunik and Shannon Vonorak for their roaring 20’s Speakeasy. What a fun way to start Teamworks! Kudos to Darrell Zehner and his hardworking committee, Rebecca Wietting and IAMI productions, for making sure everything went so well. Many thanks also go to Dr. Gene Frank and Rachel Grabenhofer for making our Educational Seminar so stimulating.

After so much success at our March events, I'm sure you are looking forward to our April meeting. Our speaker will be Jeffrey Parker on the subject of SWOP Emulsions. It will be interesting to hear about resolving the challenges of formulating for water resistance while providing a light feel. It will also be fun to try a new venue—Angelo’s Ristorante in Elmhurst, IL. As usual, we'll have our ongoing attendance, raffle and hopefully a trivia contest.

Our Midwest Tutorial is coming up on Friday, June 18th. The topic is Fragrance and should apply to many sections of our industry. The Tutorial is free to members, but we have limited space so register soon. Details for registration are in this issue. Also, Save the Date for our second Golf Outing on Monday, July 19th. Hopefully it will be another beautiful day of fun and networking at Carriage Greens.

The deadline for both filing your income taxes with the IRS and letting the SCC know you want to run for the National Office of either VP-Elect, Treasurer, or Director for Area II is April 15th. Contact Bill Cowen to submit your bid for a position, BCowen@scconline.org. Speak up now or you will have to wait another year at best.

Tell us what you think. What do you like and what you want to change? Contact me at chair@midwestsccc.org with any comments or suggestions. Mark your calendars and take advantage of our events. We are always looking for volunteers so contact me if you are interested in participating. Remember, the best way to stay current on chapter events is to visit our website, www.midwestsccc.org.

I hope to see you all on April 13th in Elmhurst!
April 13th
MWSCC Chapter Meeting

Schedule
5:15 Board Meeting
5:30 Social Hour
(Cash Bar)
6:30 Speaker
7:30 Dinner

Angelo's Ristorante
247 N. York Road
Elmhurst, IL
630-833-2400

MENU
Minestrone soup
Tossed Salad
Rigatoni pasta with Marinara

Entrées
Eggplant Parmigiana &
Chicken Oreganato with vegetable

Dessert
There will be a complementary bottle of wine on each table
The Chapter will be hosting a Poster Presentation at this month’s meeting. Please join us during social hour from 5:30pm - 6:30pm to meet with our presenter:

**THERMAL ANALYSIS OF COSMETICS**

Blaine Weddle  
Midwest Technical Representative - Mettler Toledo

Temperature-dependent properties play a significant role for materials used in the cosmetics and personal care industry. Often measured are properties such as dropping point, melting point, melting range, percent liquid fraction, crystallinity, heat of fusion, and moisture content. Thermal analysis techniques play an important role in the measurement of these properties. Instruments for the measurement of these properties range from simple instruments for the measurement of melting points to more advanced techniques such as differential scanning calorimetry (DSC) and Thermogravimetric Analysis (TGA). Several examples will be presented on the application of these techniques to the analysis of materials in the cosmetics industry. Thermal analysis instruments from METTLER TOLEDO will also be on display.

Blaine Weddle is the midwest technical representative for the Materials Characterization division of METTLER TOLEDO. He is currently responsible for a sales territory centered around the Chicago area and extending into neighboring states. Prior to his current position, he worked in the METTLER TOLEDO thermal analysis applications laboratory where he helped customers in a wide variety of industries to solve problems using thermal analysis techniques. Blaine received his B.S. in chemistry from Kentucky Wesleyan College in 1992 and his M.S. in analytical chemistry from The Ohio State University in 1998. He has presented on a wide variety of topics related to thermal analysis at both national and regional meetings.

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**Don't miss out on all the news from the MWSCC chapter!**

Please update your contact information immediately by going on our website [http://www.midwestsccl.org/mailing-list/](http://www.midwestsccl.org/mailing-list/) and updating your contact information. You should also update your information on the national website: [http://69.36.162.213/SCC_Address_Change_Request.htm](http://69.36.162.213/SCC_Address_Change_Request.htm).

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**New Members**

Do you have co-workers new to the cosmetic industry? Please invite them to explore the opportunities and benefits of being a Midwest SCC Chapter Member!  
Membership applications are available online at [www.midwestsccl.org](http://www.midwestsccl.org) or at the chapter meetings.
Congratulations to our New Midwest Chapter Emeritus Members!

The National Board of Directors elected two Midwest Chapter members to Emeritus status:

Dennis Ciechna
George Concar

The Society recognizes Emeritus members as those who have been dues paying members for at least 25 years and who are at least 65 years of age. Please send a written request to Helen McCarrren, HMcCarren@SCConline.org at the National Office if you feel that you may be eligible and would like to become an Emeritus Member. The Board will vote again at the June meeting.

Save the Date!
Monday, July 19, 2010
2010 Midwest SCC Golf Outing
Carriage Greens Country Club in Darien, IL
Shotgun start – Four Person Scramble format
For more details, see www.MidwestSCC.org

Dr. Albert M. Kligman dies at 93

Dr. Albert M. Kligman, M.D., Ph.D. of the University of Pennsylvania was a well-known dermatological researcher who developed the acne drug Retin-A as well as the anti-wrinkle treatment Renova.

A prolific researcher, Dr. Kligman was the first to describe the human hair-growth cycle, investigated the pathogenesis of acne vulgaris, identified the effects of sunlight on the skin, and coined the terms photoaging and cosmeceuticals. Along the way, he also disproved the myth that chocolate promotes acne, among other beauty and health-related urban legends.

Dr. Kligman died of a heart attack, according to the University of Pennsylvania, where he had been a faculty member for 50 years with Professor Emeritus status. His Research Area of Interests included: Acne; rosacea; photoaging; contact sensitization and cutaneous toxicology.

Dr. Kligman was currently developing non-invasive bioengineering techniques to study the pathogenesis and treatment of the above disorders. His research included high-tech imaging and measuring techniques using ultrasound B-scan, confocal microscopy, optothermal coherent tomography and digital polarized light photography with cross and parallel filters. He was also investigating biomechanical instrumentation for measurement of visco-elasticity, using Cutometry.
Free Midwest Tutorial

When
Friday, June 18, 2010, 9:00 AM – 3:00 PM
Includes free continental breakfast and lunch

Location
Chicagoland Area
(final location to be announced shortly)

FRAGRANCE OVERVIEW FOR PERSONAL CARE PRODUCTS
By Steve Herman

Course Outline
History of Fragrance
Chemoreception
Fragrance creation and duplication
Aroma chemicals
Natural products
Fragrance applications
Safety and regulations
Aromascience
References

About the instructor:
Steve Herman is President of Diffusion LLC, a consulting company specializing in regulatory issues, intellectual property, and technology development and transfer. He is an Adjunct Professor in the FDU Cosmetic Science Program, teaching the Cosmetic Formulation Lab and Perfumery. His SCC activities include service as Chairman of the NY Chapter in 1992, election to Fellow status in 2002, and instructor in the Continuing Education Program. He also teaches several fragrance related courses for the Center for Professional Advancement.

Space is limited therefore everyone must provide a $50 deposit check, returned un-cashed to you on the day of the event, in order to reserve a seat. This helps our Chapter to cover all expenses, maintain an accurate count and recover losses if members reserve and do not show up.

To reserve a seat, mail a personal check made out to the SCC Midwest Chapter for $50 to:
Attn: Rita Massinople, 1471 Glenside Drive, Bolingbrook, IL. 60490.

Any questions: please contact Rita Massinople at 630-759-3654 or email at: rmassinople@charkit.com
Visit our Chapter website www.midwestscc.org to get the registration form and additional information.
March Chapter Meeting Photos

After learning to optimize foam and mildness with sultaines, our chapter members were able to enjoy our traditional Spring Grecian Feast at the Parthenon. Always a favorite with our members, this year was no exception.

The Chapter photographer caught our members off-guard with her stealth shooting.

Amy Fu and Michael Frushour enjoy gyros and saganaki.

Good food & good company = 1 good time

Matt Zoeller drinks martinis so you don’t have to.

The photographer strikes again!
SOCIETY OF COSMETIC CHEMISTS
CALL FOR PAPERS – PODIUM PRESENTATIONS ONLY*
ANNUAL SCIENTIFIC MEETING & TECHNOLOGY SHOWCASE

DECEMBER 9-10, 2010
NEW YORK HILTON HOTEL, NEW YORK CITY

Authors are invited to submit titles and abstracts of no more than 150 words for original papers to be presented in podium format. All topics related to cosmetic science will be considered for presentation. Topics of particular interest for submission of abstracts are:

- New Technologies and Trends in Make Up
- Genomics, Proteomics and Bioinformatics in Cosmetics
- Delivery Systems
- Sun Protection for Skin and Hair
- Devices in Cosmetics
- Innovation in Hair Styling (Styling, Treatments)

SUBMISSION DEADLINE: MAY 1, 2010

Abstract Cover Sheets and Templates can be obtained by contacting the SCC National office via phone at 212-668-1500 or may be printed from our website www.scconline.org (see below). The Abstract Cover Sheet and Template should be submitted to the Committee on Scientific Affairs, c/o Society of Cosmetic Chemists, 120 Wall Street, Suite 2400, New York, New York, 10005-4088 or via email to dscelso@scconline.org. Email submission is preferred. After acceptance of abstracts by the Committee, all presenters will be required to submit preprints 12 weeks prior to presentation (minimum of 600 words, maximum of 2 pages, including figures). All presenters will be eligible for the Society of Cosmetic Chemists’ Award sponsored by Rhodia Novecare, which is given for the Best Paper presented at the Society’s Annual Meeting. The honorarium for this award is $2,500. Presenters are required to register for the Meeting.

* The Call for Participation for Abstracts for the 2010 Technology Showcase (Poster Session) will start in July 2010 with a September 15th Deadline.
The Caffeine Craze
by
S. Tschantz

If you’re like me, you look forward to that warm jolt of dark caffeinated goodness resting between your palms in the morning. It rides in the car next to you on your way to work and leaves yet another ring on the top of your desk. Whether its coffee or tea, plain or flavored, no matter the vessel, it’s a friend that keeps you going and going and going; and its talents do not stop there.

As a cosmetic chemist, caffeine has made its way across my bench more than once. It is hardly a new active, but appears to be a favorite in the industry. The possibilities for incorporating caffeine into personal care products continues to be explored and anyone who has surfed their way over to www.thinkgeek.com knows that there is a definite market out there for it. Energy drinks and imbued sunflower seeds aside, caffeine has been incorporated into lip balms (check out Spazzsticks™), breath strips (Diablo Energy Strips™), and even bar soaps and shower gels (Shower Shock™) to give you an energizing lift, lower inflammation and/or reduce cellulite. It has even found its way into the growing men’s market with Moxie’s Double-Shot™ Caffeinated Eye Cream.

In a study performed by Dr. Omar Lupi at the University of Rio De Janierio, after a month of treatment with a caffeinated formulation, more than 80% of the participants evinced a reduction in the circumference of the thighs. Some studies suggest that changes in the circulation system of the skin may provide the mechanism for caffeine’s slimming effect; however, the microcirculation in the skin was not significantly modified. “The capillary number and their diameter were not significantly altered.”

The University of Jena, in Germany, Department of Dermatology and Allergology studied the effects of caffeine on in vitro hair follicle samples. “The application of caffeine was observed to significantly boost the growth of the hair follicles, leading the team to conclude that caffeine is a stimulator of hair growth and “may have important clinical impact in the management of androgenetic alopecia.”

Caffeine however does have its ups and downs, literally and figuratively. Before you start enjoying the incorporation of energy into every application known to man, make sure you do a little research concerning Caffeinism. On www.caffeineweb.com, the effects and symptoms of caffeine addiction and caffeine-related mental disorders are discussed via clinical studies, toxicology reviews, and behavioral science. Another interesting link is www.caffeineawareness.org/calcul.php, where you can calculate your own daily personal intake.

JOURNAL ARCHIVE

The Society of Cosmetic Chemists announced earlier this year the opening of our new digital archive. All SCC Journal issues going back to the very first issue have been digitized and are online and fully searchable.

You can access the archive here: [http://journal.scconline.org](http://journal.scconline.org)

Note: While most of the archive is available to the public, only members can access issues from 2006 forward.

SCC Continuing Education Courses

PRACTICAL BASICS & THEORY IN EMULSION TECHNOLOGY
Instructed by John Carson
April 14, 2010
Sheraton Newark Airport

COSMETIC CHEMISTRY IN THE INTERNET AGE
Instructed by Perry Romanowski
April 27, 2010
Sheraton Newark Airport

For course outlines and the registration forms, please see: [http://www.scconline.org/website/education/index_courses.shtml](http://www.scconline.org/website/education/index_courses.shtml)

Save the Date in 2010

May 10th & 11th
NYSCC Suppliers' Day
Raritan Center - NJ

June 3rd & 4th
Annual Scientific Seminar
Area I - Long Island

June 18th
MWSCC Free Tutorial
"Fragrance"

July 19th
MWSCC Golf Outing
GATTEFOSSE PERSONAL CARE DIVISION SALES REP.

SUMMARY:
Are you looking to utilize your formulation/technical knowledge in Sales? We offer a Technical Sales Representative position to cover the Midwest area.

Gattefosse Corporation (Paramus, NJ) is the N.A. affiliate of the Gattefosse Group, a privately held French based group founded in 1880. Gattefosse leads innovation in plant-derived lipids and extracts dedicated to both the Personal Care and Pharmaceutical industries.

DESCRIPTION:
You will be responsible for developing sales of our proprietary specialty ingredients i.e. emulsifiers, texturizers and active ingredients to the Midwest-based Personal Care manufacturers, visiting R&D chemists, product developers and formulators. The position could be based out of the Midwest or New Jersey. Self-motivated and committed individuals only.

REQUIREMENTS:
The job requires good technical background (BS Chem., Biology) + excellent interpersonal and communication skills. We are looking for someone well connected to key players in the Midwest.

Do you have any employment opportunities in your company?

Don't forget to post them in the Midwest SCC Chapter newsletter and website. It is easy, there is no fee, and all of our chapter members throughout the industry can view them. E-mail: chair-elect@midwestscscc.org to submit your listing.

PRODUCT DEVELOPMENT ASSISTANT – LIQUIDS

Paris Presents creates and distributes comprehensive brands of makeup tools, bath and body liquids and accessories, travel accessories and nail/niche beauty products. The company is located in Gurnee, IL.

This position coordinates liquid product development by assisting in formula approvals, product testing and fragrance development via communication with subcontractors and fragrance suppliers to ensure company standards and deadlines are met in a timely manner. BS in chemistry degree preferred with 1-3 years experience.

For more information see http://www.midwestscscc.org/careers/

Paris Paris has a good benefits package, and is a friendly, exciting place to work.

Please submit resume with salary history to ksteward@parispresents.com