

2006 MASCC

CHAPTER OFFICERS

Chairperson

Kevin Kinter
Wyeth Consumer Healthcare
(804) 257-2400
kinterk@wyeth.com

Chairperson Elect

Angela Eppler
Wyeth Consumer Healthcare
(804) 257-2735
EpplerA@wyeth.com

Secretary

Sara Magee
Wyeth Consumer Healthcare
(215) 257-2406
Magees@wyeth.com

Treasurer

Joe Lynch
Crystal, Inc.— PMC
(856) 533-1889
jlynch@pmc-group.com

Webmaster

Melody Boulden
Uniqema
(302) 574-2709
Melody.boulden@uniqema.com

Program/Education Chair

Doug Thornley
Thornley Company
(302) 993-8300
thornley@thornleycompany.com

Advertising Chair

Stanley R. Milstein, PhD
U.S. Food & Drug Administration
(202) 418-3173
smilstie@cfsan.fda.gov

Advisor

Lauren Trahan
JONATHAN|product
(410) 855-6113
ltrahan@jonathanproductllc.com

Area IV Directors

Sandy Porter
Clariant Corporation
(704) 395-6657
Sandy.porter@clariant.com

Gary Agisim

Wyeth Consumer Healthcare
(804) 257-2562
agisimg@wyeth.com

Newsletter Editor

Jim Saunders
Wyeth Consumer Healthcare
(804) 257-2458
saundej5@wyeth.com

Asst. Newsletter Editor

Sahar Fakhry-Smith
Degussa-Goldschmidt
(804) 452-5618
Sahar.fakhry-smith@degussa.com

Currents from the Mid-Atlantic Chapter Society of Cosmetic Chemists

Fall, 2006, Volume 3, Number 3

The 5 C's of Hair Care

The Mid-Atlantic Chapter of the SCC
would like to cordially invite YOU to attend our
blow-out fall symposium.

In association with the University of Delaware Student Affiliates
of the American Chemical Society, we have lined up a diverse
group of speakers from both industry and academia to present
hair care topics on:

Cleaning
Conditioning
Career
Curling
Coloring

Save the Date:

Presidents Night will be November 14 at the Melting Pot, Richmond, VA.

The 5 C's of Hair Care

Sponsored by:

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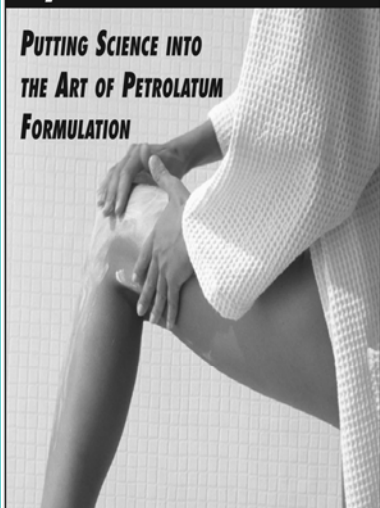
Thursday, October 19th, 2006

Vendors—Hurry to reserve your spot at our vendor/career fair.
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9 has more details or email Angela Eppler at

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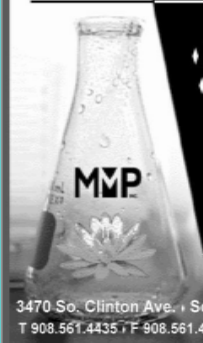
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The 5 C's of Hair Care

Conference Agenda

8:00 am to 8:45 am	Registration – Coffee & Danish
8:45 am to 10:15 am	Opening Ceremonies Dr John Burmeister – Associate Chairman, Department of Chemistry – University of Delaware Keynote Addresses: A Technical Overview of the Needs and Requirements for New Technologies in Hair Care – Dr. Kenneth Buckridge – Director of Research & Development - Avon Products, Suffern, NY
10:15 am to 10:30 am	Break
10:30 am to 12:00 pm	Presentations: Cleaning – Detergency and Hair Cleansing Insights – Dr. Robert Coots, Research Director – Colonial Chemical, Chattanooga, TN Conditioning – New Ideas for Tomorrow – Sahar Fakhry-Smith – Research Manager - Degussa Chemical, Hopewell, VA
12:00 pm to 1:45 pm	Lunch Keynote Address: Career Opportunities in the Personal Care, Cosmetic & Pharmaceutical Industries – Richard Kenny & Dr Robert Friedline – Wyeth Consumer Healthcare, Richmond, VA Cysteine – Insights on the Enzymatic Transformation of Cysteine Disulfide Bonds – Dr. Colin Thorpe – University of Delaware
2:00 pm to 3:30 pm	Presentation: Curling – New Concepts in Curl Retention – Kathy Mauer – National Starch & Chemical, Bridgewater, NJ Coloring – An Overview of Today's Technology – Keith Brown – Retired, formerly Director of Research – Clairol, Inc, Stamford, CN
3:30 pm to 4:45 pm	Student Poster Sessions Student Career Fair
4:45 pm to 5:00 pm	Closing Statements

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Abstracts on our Topics

A Technical Overview of the Needs and Requirements for New Technologies in Hair Care

The Hair Care Market, first and foremost must respond to the hopes, demands, wishes and whimsy of the Consumer. This overview will trace some key technical innovations in Cleansing, Conditioning, Curling and Color Protection as they relate to hair care products made for the Consumer. Then, it will explore what may be needed in the future to meet and satisfy the Consumers hair care interests.

Hair Cleansing and Detergency Insights

We have developed and used a test method to measure relative detergency of surfactants for use in cleaning hair. This method utilizes the naturally occurring oil, squalene, as a material to evaluate oiliness and the ability of a surfactant to effectively emulsify and clean. Several common shampoo surfactants were tested, along with a more harsh detergent. Some new products with very low irritation potential were also tested, and show surprisingly good results in this test. This study also gives some insight into detergent level and consumer perceptions.

Conditioning – New Ideas for Tomorrow

“Hair management” can be defined as the ability for a consumer to control her (his) hair so that the results achieved are those uniquely sought after by that individual. Hair that is easily combed and exhibits no static is a basic and expected requirement of any conditioner on the market today. Delivering these traditional benefits is no longer sufficient for a conditioner to be successful in the globally expanding conditioner segment. Other desirable conditioning benefits include but are not limited to perceivable silky/smooth /straight hair, volume enhancement, curl definition and luster. Combinations of organic and silicone based ingredients along with novel actives provide the backbone of multi-benefit conditioning products that strive to meet each consumer’s needs. We will discuss how ingredient combinations and product forms relate to emerging trends that affect the hair’s condition and consumer expectations.

Career Opportunities in Cosmetic Science

Choosing a career may be one of the hardest and most important decisions of a student’s life. Are you interested in Science and Technology? Would you like to work in Research, Product Development, Manufacturing, or Marketing? Are you Creative, Inquisitive, or Detail Oriented? If the answer to any of these questions is Yes, then the Cosmetic Industry may be a perfect fit for you. Throughout the New Product Development Process for cosmetic products, many different and exciting jobs and interesting people are needed to bring a new product idea from conception to the consumer market shelf. Job opportunities, ranging from Development Chemists, Manufacturing Engineers, and Microbiologists, to Production Planners and Toxicologists, and their important roles in the process will be discussed. Come find out about the world behind all of your daily personal care products!

Cysteine – Insights on the Enzymatic Transformation of Cysteine Disulfide Bond

Although disulfide bonds are very familiar to biochemists, and those interested in biomaterials (e.g. hair, mini-collagens, barnacle glue and the like!), nobody really knows how they are synthesized in multicellular organisms. This extraordinary state of affairs will be the starting point for this brief introduction to the field of oxidative protein folding. We will briefly discuss the chemical principles that govern the generation and manipulation of disulfide bonds. Finally, we will describe our accidental discovery of a family of enzymes that make disulfide bonds in a wide range of human tissues (including skin and, probably, hair). This talk is designed to be accessible to non-specialists.

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New Concepts in Curl Retention

Consumers with curly hair spend more on hair care products than others, as they search for products that combat the care and styling challenges they face everyday. Some of the more common challenges curly hair consumers face is volume reduction and frizz control. Often requiring the use of multiple products, consumers require a broad range of effects – to be able to easily change the look of their style, beautiful curls one day and sleek straight the next. When it comes to curl retention from a hairspray, acrylic technology was among the first to deliver promise of ingredients that offer long lasting high humidity resistance. The AM-PHOMER® polymer family is one example of this technology. Over the years the styling market has been segmented into a variety of sectors where traditional styling products such as hairspray, mousses and gels are now competing with products like creams, waxes, lotions, muds, clays and glues, just to name a few. This presentation will address the challenges that consumers with curly hair face and bring options for the next generation of products to help consumers care for curly hair.

Coloring – An Overview of Today's Technology

Following more than 100 years of study and use, the science and technology of modern hair colorants is very well understood. After briefly describing the technology of current products, some ways of using this information to develop improved product ingredients and performance will be discussed. Finally reasons will be proposed for the longevity of the technology and the lack of any successful competitive hair dyeing chemistries.

Our Speakers

Dr John Burmeister – Alumni Distinguished Professor and Associate Chairman, Department of Chemistry and Biochemistry

John Burmeister received his B.S. degree from Franklin and Marshall College in 1959 and his Ph.D. from Northwestern University in 1963. He has been a faculty member of the University of Delaware since September of 1964, having been promoted to Professor of Chemistry in 1973. He has been the Associate Chairman of the Chemistry and Biochemistry Department since 1974. In 1993, he was named the University of Delaware's second Alumni Distinguished Professor, in "recognition of his excellence in teaching and extraordinary commitment to students." He has published over one hundred research papers and reviews in the area of the coordination chemistry of ambidentate ligands.

Dr. Kenneth Buckridge – Director of Research & Development - Avon Products, Suffern, NY

Ken Buckridge is the Senior Manager for Global Hair Care Research & Development at Avon Products, Inc. In this capacity, he is responsible for leading technology development, product design and performance claims assessments for Avon's global hair care operations. This includes developing technical and business strategies with Avon's marketing team for all of their global markets. Since joining Avon in 2000, he has been especially active in leading the complete restaging of Avon's key hair care brands, Advance Techniques and Herbal Care, as well as the introduction of a new brand, Avon Beauty, for Latin America. Prior to joining Avon, Ken was with the Gillette Company. During a twenty-five year career with Gillette, he held several bench positions of increasing responsibility before advancing to Technology Information Manager, Technologies and Environment Program Manager and Hair Care Product Development Manager. While at Gillette he led the technical revitalization of the White Rain brand. Ken began his career in personal care product development with Colgate Palmolive in 1969. Ken Buckridge earned his BA in Biology at Lafayette College, Easton, PA in 1969. He is on the Board of Trustees for TRI/Princeton and is an active member of the Society for Cosmetic Chemists.

Dr. Robert Coots, Research Director – Colonial Chemical, Chattanooga, TN

Ph.D., Chemistry, University of Utah, 1983, B.S., Chemistry, University of Southern California, 1976. Dr. Coots is the Manager of R&D at Colonial Chemical, Inc. Since joining the company in 2002, Dr. Coots has been the principal chemist in new product development for the company. Prior to joining Colonial, Dr. Coots was a Chemist within the Research and Development department at Synair Corporation. Dr. Coots was the principal chemist in research and development improvements in monourethanes and polyurethanes compound systems.

Sahar Fakhry-Smith – Research Manager - Degussa Chemical, Hopewell, VA

Sahar received her B.S. degree in biology from Rutgers University in 1983 and her MBA from Rider University in 2002. She joined Colgate–Palmolive in 1984 where she held positions of increasing responsibility in the Oral Care Advanced Technology Group working on various projects including Tartar Control Toothpaste and Total Dentifrice. She developed a methodology to isolate and identify SLS in oral care products. In 1998 Sahar joined the Hair Care Product Development group. Her responsibilities included the development and formulation of shampoos, conditioners and styling products from conception to market launch supporting several global brands. She also completed an international marketing assignment with Global Business Development in Mexico supporting their hair care equities. She joined the Degussa-Goldschmidt Chemical Corporation’s Conditioning Competence Center in December 2005. Her focus is on new developments in hair care with an emphasis on conditioning agents and concepts. Sahar holds several patents and co-authored several publications.

Richard Kenny – Assistant R&D Director, Personal Care – Wyeth Consumer Healthcare, Richmond, VA

Rich Kenny has more than 30 years experience in the OTC/Cosmetic industry. Rich received a BS in Chemistry from St Peter’s College in 1974 and a MA in Cosmetic Science from Fairleigh Dickinson University in 1985. He has worked at companies such as Block Drug Co, where he was responsible for the product development of their toothpaste and dental care products. Rich then continued his career at Bristol Myers, where he helped formulate shampoo and antiperspirant products. Rich then moved on to Beecham Products where he helped develop oral care products. Rich now has spent the last 20 plus years at Wyeth Consumer Healthcare as the Assistant Director of the Personal Care Group. Rich’s responsibilities include the overseeing the product development of new products and line extensions of established brands such as Anbesol, Preparation H and Chapstick.

Dr Robert Friedline – R&D Scientist, Personal Care - Wyeth Consumer Healthcare, Richmond, VA

Dr Robert Friedline recently earned his PhD from Virginia Polytechnic Institute as a Physical Organic Chemist in 2004, after completing his undergraduate degree from Washington & Jefferson College. Robert is now working as a Research Chemist for Wyeth Consumer Health Care investigating new formulas and delivery systems for Chapstick, Preparation H and Anbesol Brands.

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Dr. Colin Thorpe – Professor of Chemistry & Biochemistry - University of Delaware

Colin Thorpe was educated in England. After a Ph.D. in Bio-inorganic chemistry he was a post-doctoral fellow in the Department of Biological Chemistry at the University of Michigan, Ann Arbor. He moved to the University of Delaware in 1978 where he is now Professor of Biochemistry in the Department of Chemistry and Biochemistry. Dr. Thorpe has broad interests in enzymes that catalyze redox reactions. Recently, his group has discovered and characterized a new enzyme family that inserts disulfide bonds into proteins destined for secretion.

Kathy Mauer – Marketing Manager - National Starch & Chemical, Bridgewater, NJ

Kathy Maurer is the Marketing Manager for National Starch Personal Care Styling group. Among her primary duties is the continual assessment of the needs of the hair styling market and the development of innovative starter formulations that reflect the demands of today's consumer's. Kathy joined the marketing group after receiving her B.S in Marketing from the University of Phoenix. Before joining the marketing team, she served the business in a technical capacity.

Keith Brown – Retired, formerly Director of Research – Clairol, Inc, Stamford, CN

Dr Keith Brown retired in July 2002 from his position as Director of Research and Analytical Chemistry for Clairol Inc., Stamford CT. In his 28 years with Clairol, he made many contributions to the understanding of the chemistry and practice of hair dyeing. He has also worked on the synthesis of novel hair dyes, and on numerous other aspects of hair dye technology. He has co-authored over 40 patents and publications in this field and has written several book chapters on the chemistry and practice of hair coloring. Prior to joining Clairol, he graduated from the University of Liverpool, England with a Ph.D. for work on diazo chemistry, and was a Post-doctoral Fellow at the University of Rochester, Rochester N.Y. He is now a consultant on hair dyeing technology.

The 5 C's of Hair Care Attendee Registration

Registration Fees:

\$99 SCC Member
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SHANGHAI – THE CHINA CATALYST

Marco Polo found the first overland route. The Portuguese were the first to sail around the Cape of Good Hope to arrive on the distant shores. Trade with China has been a prize goal since the Middle Ages. The Yankee Clipper ships were built for the fastest travel from Boston to Shanghai resulting in a flourishing trade for the newly born United States.

Just three years ago only a handful of companies were starting up R&D facilities in China, particularly in Shanghai. Now, almost every major, and many smaller, pharmaceutical and cosmetic companies are establishing laboratories in Shanghai, resulting in full employment of China's scientists.

Seven years ago DuPont had decided against an R&D facility in China, but the company's thinking has changed: "China is the world's fastest growing market for chemicals, pharmaceuticals and cosmetics." Says Guo_hua Miao, DuPont's Managing director for R&D China. "We need to provide better technical support, and we need to develop new products to meet the rapidly changing, and specific, needs of local consumers." DuPont's facility is located in the Zhangjiang Hi-Tech Park which is an easy commute from Old Shanghai where most people prefer to live.

Andreas Tschirky, Roche's head of R&D in China, says many companies opt to place R&D facilities in Zhangjiang because it is becoming China's foremost scientific hub. In addition to multi-national companies, leading Chinese organizations, both private and public, are moving into the park. These include the new Shuguang hospital and Institute of Materia Medica and Shanghai Institute of Biological Science. With a floor area of 5,000 square meters, the Roche center was inaugurated in 2004 and now employs 65 people, 56 of them scientists. The building can accommodate 120 people, and the facility is staffed by a core group of a dozen Chinese scientists who have conducted advanced scientific research in the United States for several years. Seeking to dispel the notion that R&D centers in China merely do the bidding of the main research labs of multi-national companies, Tschirky says "We are a real research center focusing on synthetic chemistry, 3-D modeling, discovering novel structures from medicinally active compounds, and finding scale-able synthesizing steps.

Michael Droscher, Degussa's Dusseldorf senior vice president of innovation, says Shanghai is the only city in China that has the scientific sophistication to support the Degussa R&D efforts. Inaugurated in April 2004, Degussa's R&D center serves two main purposes: Developing application in China for Degussa products and managing Degussa's relationships with the university community. "The school system is very competitive in China" says Droscher, "and we want to have access to the top people coming out of that system." Moreover, Shanghai is the place in China where foreigners feel most comfortable. There are 30,000 Germans living in the city.

Kai Lamottke, a founder of the drug discovery firm, Bicoll, implemented a unique methodology of dividing a Chinese botanical plant into 180 fractions and observing whether any of the fractions initiates a reaction on a target such as a cancer cell or whole organism. Bicoll then isolates the compound causing a reaction, typically for pharmaceutical company customers in Europe or the United States. Unique antioxidants from desert plants of inner China are fueling the innovative market for anti-aging products in a society where age and life experience is revered. Shanghai's preeminence as a center for corporate R&D seems poised to rise. The increasing number of companies establishing R&D facilities in Shanghai motivates other firms to do the same thing, if only not to be left out. As Degussa's Droscher quips: "If we don't use the scientists in China, they will just work for the competition.

Reference: Chemical and Engineering News, August 21, 2006.

JOB POSTINGS

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