

Dinner Hour

Polymeric Thickeners in Personal Care Formulations - Advantages Beyond Thickening



Daphne Benderly

Senior Applications Scientist
Presperse

Polymers are widely used in personal care products such as lotions, shampoos, gels, body washes, lipstick, mascara, and others. Functions provided by polymers can include control of viscosity, feel/texture modification, exfoliation, film formation, emulsion stabilization, opacifying, bulking, and more.

This presentation will focus on a class of polymers used as a viscosity modifier: cross-linked acrylate, INCI name Acrylates/C10-30 Alkyl Acrylate Crosspolymer. This polymer type has found use in gel, surfactant and emulsion systems, and offers shear thinning rheology and aesthetically pleasing texture. One typical disadvantage of this polymer class is loss of viscosity upon addition of electrolytes (salts).

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Educational Hour

Biomechanics of Human Skin: Predicting Skin Damage and the Effects of Treatments



Dr. Reinhold H. Dauskardt

Professor and Associate Chair of Materials
Science and Engineering
Stanford University

The biomechanical properties of human skin are crucial in understanding the mechanical and biophysical function of skin, its cosmetic "feel" and appearance, and play a central role in skin damage processes like chapping and cracking. Daily exposures to variable temperature, moisture and solar UV conditions, together with application of cleansing agents, lead to damage and the perception of skin "dryness" and "tightness." However, the connection to the biomechanical properties and stresses in the skin remains elusive due in part to a paucity of mechanical properties of the skin layers following such exposures.

UV damage and dry skin are accompanied by significant changes in the stratum corneum (SC) biomechanical properties including the "so-called" drying stress which leads to the perception of

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Meeting Details:

Date: **Tuesday - May 28, 2013**

Location: **Duke's Malibu**

Menu: **Buffet**

Educational Hour - 5:00-6:00 p.m.

Cocktail Hour - 5:30-6:30 p.m.

Dinner Hour - 6:30 p.m.

Speaker - 7:00 p.m.

More Meeting Details on Page 2

Meeting reservations are strongly encouraged!

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Inside this issue:

Meeting Details

Location

Duke's Malibu
21150 Pacific Coast Highway
Malibu, CA 90265
(310) 317-0777

Costs

- \$20.00 Members with reservations and first-time only guests with a member-sponsored reservation. *Non-member pricing in effect after first meeting.*
- \$65.00 Members without reservations
- \$55.00 Non-members with reservations
- \$70.00 Non-members without reservations

Menu

Buffet

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Please register and pay online at www.caliscc.org; ROSS Organic: **562-236-5700**
Call-in registrations must be guaranteed with credit card and will be charged for no-show.
Reservations will be accepted no later than 12:00 p.m. the Friday before SCC Meetings.
If you call in after 12:00 p.m., your spot cannot be guaranteed and you will be required to pay the walk-in rate. Limited space – register today! Walk-ins may be turned away.

Meeting Sponsor

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Society of Cosmetic Chemists - California Chapter

2013 Calendar of Events

<i>May</i> 28	California Chapter Monthly Meeting	<i>Dukes, Malibu</i>
<i>July</i> 27	California Chapter Summer Event	<i>Newport Beach, CA</i>
<i>September</i> 24-25	California Chapter Supplier's Day	<i>Long Beach Convention Center</i>
<i>October</i> 22	California Chapter Monthly Meeting	<i>Los Angeles Airport Marriott Hotel</i>
<i>November</i> 19	California Chapter Monthly Meeting	<i>Los Angeles Airport Marriott Hotel</i>

Dinner Hour

...continued from page 1

A recent product introduction exhibits electrolyte activation. Performance in model systems such as gels and surfactants will be demonstrated, and the thickening mechanism described. In addition, an unexpected synergy between this thickener and common surfactants is described.

An added benefit, in addition to building viscosity and electrolyte activation, is the development of a distinctive texture. This texture can be used to differentiate consumer products.

About Our Speaker

Daphne Benderly is a Senior Applications Scientist at Presperse. She is a member of SCC and SPE (Society of Plastics Engineers). She holds a PhD in Materials Engineering from Technion-Israel Institute of Technology, and has over 20 years experience in R&D in the personal care, chemicals and plastics industries.

At Presperse, she is part of the team that developed a technology that recently received a 2nd place award for innovative new product, from *Cosmetics and Toiletries Magazine*. Prior to Presperse, Daphne has worked at Elementis Specialties in the areas of rheological additives and nanocomposites, and Carmel Olefins in the area of polypropylene nanocomposites.

Educational Hour

...continued from page 1

skin stiffness/tightness and provides a mechanical driving force for skin damage like cracking and chapping. Surprisingly, the effects of environmental UV exposures, moisturizers and sunscreens on these properties as well as their role in reducing the mechanical driving force for skin damage are not well characterized.

Our objective has been to develop a suite of novel biomechanical methodologies in which the effects of a range of damaging exposures together with the ameliorating effects of sunscreens and moisturizers on skin stiffness, stress and resistance to damage can be directly quantified. We have particularly focused on the outermost stratum corneum (SC) layer. We show how water loss determines SC drying stresses and is linked to hydration and chemical state of the SC components. We demonstrate the specific role of solar UV exposure. Using a combination of biomechanical characterization metrologies we show how a range of moisturizing molecules and sunscreens can reduce drying stresses and alleviate skin damage.

We finally demonstrate how damage processes in human skin can be quantitatively modeled and predicted based on thin-film biomechanics and cracking processes. We believe that this represents a new and disruptive approach to characterize and model the fundamental biomechanics of human skin.

About Our Speaker

Dr. Reinhold H. Dauskardt, is the Ruth G. and William K. Bowes Professor and Associate Chair

of the Department of Materials Science and Engineering and Prof. in the Dept. of Mech. Eng. and in the Dept. of Surgery at Stanford. His research interests lie in the study of the relationship between chemistry and molecular structure of thin films and bulk materials and their adhesive and cohesive properties, thermomechanical behavior, and fracture and fatigue properties.

Material interests include thin-film and layered structures and metal-polymer laminates with hierarchical interphase regions for aerospace, IC and energy technologies, bulk metallic glasses, biomaterials, and soft tissues, specifically the biomechanics or human skin and regeneration processes in cutaneous wounds.

He has won numerous awards including U.S. Department of Energy Outstanding Scientific Accomplishment Award (1989), Alexander von Humboldt Research Award (2002), ASM International Silver Medal (2003), IBM Faculty Award (2006), the Semiconductor Industry Association University Researcher Award (2010), the Henry Maso Award for fundamental contributions to skin science (2011) and the IBM Shared University Research Award (2011). He was elected Fellow of the American Ceramics Society (2008), and of the ASM International (2010).

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New Phone...

Liz Streland

Croda

I got a new phone! Apparently, it's a nice phone because when people ask me what phone I got and I tell them, most say, "Oooo, that's a good one." I confess I don't keep up on the latest gadgets. My first thought when I got my new phone was, "Oh great, now I am going to have to figure out how to use it." I am happy to report I am making progress in this regard (this thing has a LOT of bells and whistles, both figuratively and literally), but I am still living in fear I am going to accidentally send an email to my husband AND everyone in my entire company asking if his flight is on time. I am sure I have unintentionally texted, emailed, or called some of you (in fact, I know I have because a couple of you have actually told me I did), so I'd like take this opportunity to publically apologize to you now.

Anyway, my new phone arrived in early April and I "went live" on my birthday. It then dawned on me that this was not the first time I had gotten a new phone on my birthday. I actually received my very first phone for my 14th birthday back in 19XX. To this day, I still think that was the best birthday present I ever got. (OK, my husband just reminded me he gave me my engagement ring for my 26th birthday, so I stand corrected.) Anyway, in those days, telephones were hard wired* into the wall. My grandmother arranged for the phone company to install my new phone in my room when I was at school so that it would be there when I came home that afternoon. I was thrilled! It was a beautiful robin-egg blue slimline model and the dial** actually had a light which was I thought was so cool.

This trip down memory lane got me thinking about how much change I have witnessed in my lifetime so far. I think that's part of the reason I like watching the AMC show Mad Men. For those of you who are familiar with the show, you know what a great job they do taking you back in time with all of the period fashions and props (including rotary dial telephones!). I actually remember some of that stuff! Our industry has certainly progressed over the years as well. For example, I have an actual June 1915 issue of National Geographic and in there is an ad for Ivory® Soap. It reads in part, "Ivory® Soap removes the dirt and grime of a hard day's work...Ivory® Soap bathes the baby without irritation to the tender skin. Ivory® Soap washes delicate garments without injury. Ivory® Soap cleans beautifully and safely the better home furnishings." Huh? I know the idea is (was) that Ivory® Soap is gentle enough for using on delicate garments and baby bottoms, but I am not sure how many people today are washing their babies with their laundry detergent.



I also happen to have an actual 1970 Sears Catalogue. (I know, by now you are probably thinking, "Wow, she really needs to clean out her attic!") In the Sears Catalog there are some "facial aids for smoother skin" listed for sale. One product called, "Donnatelli Turtle Oil" claims to "soften and smooth, scaly, flawed, lined skin." TURTLE oil?! I'm sorry, but I have never seen a young looking turtle, have you?? A few years ago, I met Lonesome George who was rumored to be ~150 years old. In my opinion, he looked every bit of it. (Sorry, LG...RIP)

My point in all of this is to say the SCC plays an essential role in the advancement of cosmetic science. Through our many meetings, events, and publications throughout the year, the SCC promotes our mission to, "further the interests of cosmetic scientists while maintaining the confidence of the public in the cosmetics and toiletries industry." We hope you will take advantage of the many opportunities the SCC offers to advance cosmetic science. I look forward to seeing you at our "summer kick-off" chapter meeting at Dukes this month, our Educational Course in June, and our Summer Event in July. I'd better wrap this up, my new phone is ringing so someone must be calling me...or maybe they just got a new phone, too ☺

Take care,

Liz Streland

2013 Chair, California Chapter
Society of Cosmetic Chemists

*wire (def): from Wikipedia: A wire is a single, usually cylindrical, flexible strand or rod of metal. Wires are used to bear mechanical loads and to carry electricity and telecommunications signals.

**dial: as in rotary dial: The rotary dial is a device mounted on or in a telephone or switchboard that is designed to send electrical pulses, known as pulse dialing, corresponding to the number dialed.



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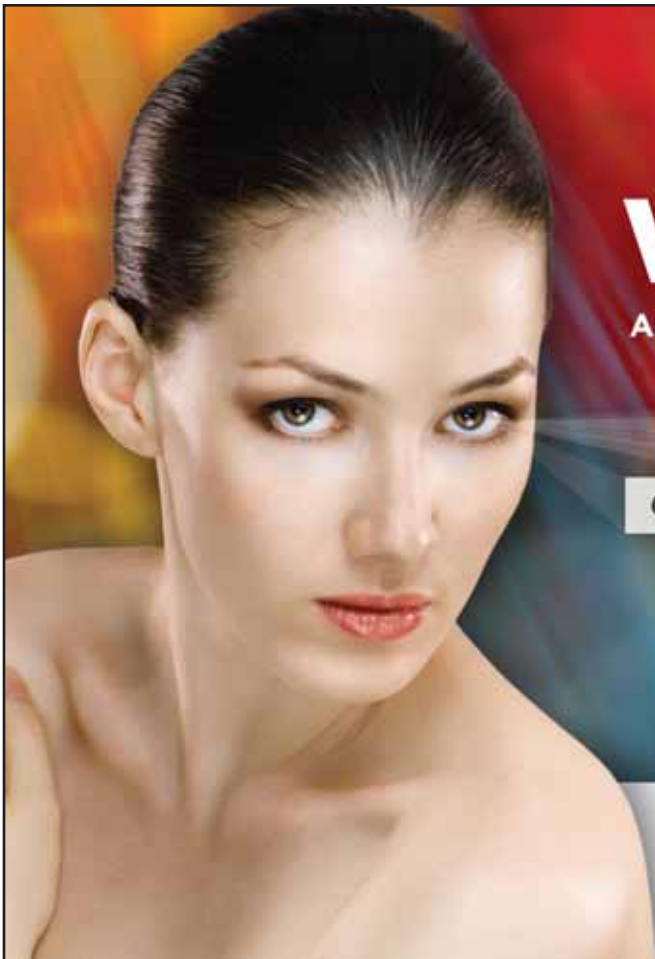
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POSITIONS AVAILABLE

- **COMPOUNDER SUPERVISOR (#1303-01)** - Natural personal care manufacturer is looking for an experienced individual to head our cosmetic compounding department. Must have a minimum of 3 years experience in compounding personal care products and have strong leadership skills. Should have a good understanding of GMP compliance and logistics. Full time position in the Hayward, CA area with great benefits. Send Resumes to info@sundeeepinc.com.
- **COMPOUNDER (#1303-02)** - McKenna Labs is looking for experienced Compounders to join our team in Anaheim. The ideal candidates will have a minimum of 2 years' experience working in a similar environment. The job responsibilities will include weighing and adding ingredients into process tanks, operating mixers, cooling and heating systems, pulling in-process samples, making required batch adjustments, and accurately recording each step in the batch records. Candidate must have necessary English, math and writing skills to perform job requirements, as well as experience operating forklifts and other material handling equipment. This is a full-time position that reports directly to the Compounding Supervisor. McKenna offers paid vacation, health insurance, and a 401(k) plan to our employees. Send resumes to careers@mckennalabs.com.
- **QUALITY ASSURANCE (#1303-03)** - G.S. Cosmeceutical USA, Inc. is looking for a candidate with experience in Cosmetic and /or Pharmaceutical manufacturing with a strong Quality background. Experience in QA and QC would be preferred with an Analytical Chemistry background. Please submit your resumes to Shaheen@gscos.com or HR@gscos.com . We are looking for candidates with 3-7 years' experience in the industry and candidates with Regulatory background should apply as well.
- **QUALITY ASSURANCE SUPERVISOR (#1303-04)** - NYX Cosmetics is currently looking to hire a Quality Assurance Supervisor to assist in the implementation of our Quality Management System, and assist in our mission to produce safe, quality cosmetics. The QA Supervisor will direct and supervisor staff in the Quality department and develop and implement SOPs and new programs across Quality Management Systems. Qualified candidates must possess a bachelor's degree in chemistry or related field and a minimum of 4-5 years of experience in cosmetics quality. For consideration, please email resume and salary history to naz@nyxcosmetics.com or contact by phone 323-837-4637.
- **R&D CHEMIST (#1303-05)** - Benefit Cosmetics is seeking a Chemist to join our R&D department in San Francisco. Reporting to the R&D Manager, will work closely with the Research and Development Manager and Product Marketing to direct all formula development from concept to an approved scaled up formula. BS in chemistry/related field or AA degree with minimum 4+ years of experience in cosmetics industry. Knowledge of cosmetics formulation/raw materials required. Experience with cosmetic product formulations including color matching required. Please apply online <http://ch.tbe.taleo.net/CH14/ats/careers/requisition.jsp?org=BENEFITCOSMETICS&cws=1&rid=1109>.
- **2nd SHIFT R&D LAB TECHNICIAN/COMPOUNDER (#1303-06)**- Entry level position with R&D formulation lab located in Chatsworth CA. Candidates will assist in Compounding/Batching formulas provided by senior R&D staff, scale up production, maintaining laboratory equipment, filing and other duties as required by Scientific Director. Requirements: 6-12 months lab experience, Must possess strong organizational, interpersonal and communication skills. Please send resume to employment@aboverinaldilabs.com.
- **TEMPORARY COSMETIC CHEMIST (#1304-01)** - Levlad in Chatsworth, CA is seeking a Cosmetic Chemist for short term assignments for approximately 6 - 9 months beginning in March, 2013. These positions are responsible for researching & developing creative products working closely with our Marketing Dept. and customers. The job also entails ensuring that formulas meet expected performance, safety and Regulatory requirements so that they can be produced in manufacturing. This role reports directly to the Sr. Manager of R&D and will also be responsible for new formulation, reverse engineering and minor reformulation. Bachelor of Science in Chemistry or related science required. To review full job description and submit resume please visit: <http://losangeles.craigslist.org/sfv/sci/3653133140.html> and/or swomack@arbonne.com.
- **RESEARCH PROJECT MANAGER (#1304-02)** - Aveda, America's premier creator and marketer of plant-based haircare, skincare, make-up, PureFume™ and lifestyle products seeks a Manager, Research Project to formulate/reformulate safe and effective personal care products that support the company's mission while ensuring the product meets marketing's expectations as expressed in product initiation forms. Each Aveda employee will practice an individual commitment to sustainability and environmental responsibility in the workplace. We aim to steer society in a more sustainable direction for our benefit and the benefit of generations to come. To view the complete job posting and apply, please visit www.aveda.com referencing req # 130286.

POSITIONS AVAILABLE

- **ACCOUNT EXECUTIVE (#1304-03)** - Induchem is a leading Swiss producer of cosmetic actives, carrier systems and other raw material ingredients for the personal care and cosmetic industry, which are distributed worldwide through a network of subsidiaries, distributors and agents. We are seeking a highly driven Account Executive to develop and grow the business. Location: Southern California including; Northern California, Arizona, Utah and Idaho. Must be a strong team player, a motivated individual contributor that demonstrates excellent communication skills, and be able to travel. Qualified candidates apply to bmota@induchem.com. Please provide a cover letter and resume, indicating the position for which you are applying.
- **CHEMIST: R & D AND FORMULATOR (#1304-04)** - Valley of the Sun a cosmetics manufacturer, located in Gardena, California, is looking to hire a chemist with approximately 5 yrs experience in the cosmetics industry. Candidate must have skills with- formulation creation, bench mix, cosmetics, analytical procedures, innovative ideas, processes, protocols, techniques, and manufacturing scale up, GMP, R&D. Experience in the research and development of cosmetics and skincare products. The candidate shall possess knowledge of raw materials, pigments, ingredient testing, quality control, analytical chemistry and emulsions. Must know how to manages technical aspects of projects; leads and manages lab team. Must possess strong organizational, interpersonal and communication skills. It's a full time permanent job. Please send your resumes with salary history to jim@hollywoodstyleusa.com.
- **SR SCIENTIST CCE (#1304-05)** - Independently lead, analyze, interpret data, and report sensory research, consumer research, and claims testing in support of product development, processing, and packaging research initiatives for cosmetic /skincare products. Designs and executes a wide variety of sensory tests. Master's degree in Science, Sensory Science, Food Science/Technology, Engineering, Psychology, or Marketing with a Market Research emphasis is required. Five years of related experience in cosmetic, consumer product, or food industry research. Must have direct experience in testing methodology and questionnaire design in either consumer/market research or sensory evaluation. Please send resume to carol.washington@mkcorp.com.
- **ACCOUNT MANAGER WEST COAST (#1304-06)** - SEPPIC Inc. a leading Global Specialty Ingredients supplier has an opportunity for an Account Manager for our West Coast Territory. Responsibilities include; Managing existing territory sales and the promotion of specialty ingredients to the Personal Care industry. Working closely with the Personal Care Team, developing and maintaining customer relationships including R&D and purchasing and providing all aspects of technical support to new and existing customers. Develop customer specific and territory sales strategies to maximize growth opportunities with customer base. Generate monthly sales reports, enter all call reports in CRM, and contribute to budgeting and forecasting. Coordinate and participate in local and national industry shows. The territory is the West Coast with focus in the States CAL, AZ. The requirements are a BS in chemistry, biology or related field. 3-5 years minimum of Personal Care industry related sales experience, or related personal care technical experience. The successful candidate will be dynamic, motivated and independent with the ability to self manage their time and be an international team player, must have the ability to juggle several priorities simultaneously with excellent communication and negotiation skills, must be proficient on the computer. Position provides competitive wages/ bonus and benefits packages, company car as well as the backing of our NJ Sales Office, Delaware Customer Technical Service Center training lab and full R&D in France. Understanding of French is a plus. Please email your resume to peter.frantz@airliquide.com.
- **FORMULATION CHEMIST (#1304-07)** - Rapidly growing cosmetic manufacturer is seeking a cosmetic chemist to support our in house brands and third party clients. The R&D Formulation Chemist position is responsible for all steps of formula development from ideation to final formulation. Primary responsibilities will be the innovation of new products, duplicating existing benchmarks, managing scale up and production batches. Color matching experience and proven formulation and innovation skills in skin, hair and body care with 2-5 years in cosmetic formulation/product development is preferred. email hr@luxbeautygroup.com.
- **TECHNICAL SALES REPRESENTATIVE (#1304-08)** - Dorsett and Jackson, a specialty chemical distributor covering the Western United States, is seeking a Technical Sales Representative for their Cosmetic and Personal Care division. The ideal candidate will have 3+ years of sales experience in specialty chemical sales to these industries. The candidate will work with technical and purchasing departments of potential customers to obtain product approvals and sales. Residence in S CA and a BA or BS college degree is required. Please forward your resume to Scott Hoffer at shoffer@dorjackinc.com.

POSITIONS AVAILABLE

- **R&D CHEMIST (#1304-09)** - We are looking for an R&D chemist to formulate skin and hair care products. You would be responsible for seeing the project through from start to finish including meeting with customers, formulating samples, doing any redirects based off customer feedback, creating batch records, and supervising first productions. We are a small company and are looking for an individual who can do what they need to do without being micromanaged. We are a small and easy going company looking for someone who is easy going and a pleasure to work with. 2+ years experience is preferred. Please send resumes and salary requirements to Staff@AMR-Labs.com.
- **Cosmetic Chemist – R&D Formulation (2 positions: color & skin care) (#1304-10)** - Northern CA (Bay Area) skin-care manufacturer hiring now! Candidate must have 5+ years of experience of R&D in skin care including OTC cosmetics, hair care and color cosmetics. Must be knowledgeable of FDA/COLIPA/ICH regulations and must be able to perform daily basis bench work formulations. Must have sound knowledge of raw materials being used in cosmetic and personal care products and must be able to work with enthusiastic, result-oriented, and highly motivated persona under a stressful environment. Salary TBD; offering 401k; medical benefits. Contact: Sarah@allurelabs.com for further info.
- **Packaging Engineer (Inland Empire) (#1305-01)** - The primary duty of the position is to aid in bringing products and projects to fruition in an accurate, timely, and cost effective manner. Candidates should have: Bachelor's Degree in Packaging Engineering or equivalent work experience; 3+ years experience in packaging, packaging development or related field; proficiency with computer systems and applications such as Window XP, Microsoft Office, CAPE, CAD, TOPPS, and Adobe Illustrator; working knowledge of manufacturing ERP system(s); excellent communication skills; advanced statistical and mathematical skills; Superior problem solving, decision making and organizational skills. Please forward your resume to Elisa Rodriguez at errodriguez@paklab.com.
- **Technical Sales Representative (#1305-02)** - Southern California distributor is looking for a Technical Sales Representative to handle the Southern California territory. The candidate will work with technical and purchasing departments of potential customers to obtain product approvals and sales. The candidate will also work closely with our in-house applications lab and suppliers on existing and new projects. Heavy focus on prospecting undeveloped customers. BA or BS degree from a four-year college required preferably in Chemistry or Biology. A self-starter working independently from home office; must reside in or near the Los Angeles, CA area. Send resume to classic.cdc@verizon.net.
- **West Coast Sales Rep (#1305-04)** - Charkit Chemical Corporation is seeking to hire a full time sales representative in the southern California area. We are looking for a knowledgeable person with 5+ years of personal care ingredient sales experience. Demonstrating proven sales success and a knowledge of the personal care area you worked in is a plus. This person will possess excellent verbal and written communication skills, be customer-service oriented, positive, and hard working. Organization and focus are critical to assure us you can work independently and efficiently from a home office. You will prepare monthly reports, set and keep appointments, follow up on samples, and deliver on promises. You must be tuned in to the personal care industry, keenly aware of market trends and pricing factors. You have the ability to build productive and loyal relationships, and will develop contacts at the product development stage whenever possible. You will expand your market knowledge and value through networking functions such as trade shows and membership in industry groups. For more information on Charkit, please visit our website at www.charkit.com. If you are interested in this position, please send your resume to Jay Lang at jlang@charkit.com.
- **Lab Technician (#1305-05)** - Smith & Vandiver/S&V Labs is a leading designer and manufacturer of prestige bath, beauty, skincare and household cleaning products. Established in 1979, we specialize in NPA natural, NOP organic, Cosmeceutical and OTC formulations and market our own brands as well as design and make products for major retailers and other marketing companies. We are looking for startup Lab Technician to support our R&D team in sample making, projects updates and documentation. BS in Chemistry, Biology or related, with Lab experience. Please send resume to Irvaz@s-vcorp.com.
- **Formulating Chemist (#1305-07)** - Paklab seeks experienced/qualified candidates for the position of formulating chemist that specializes in both skin and hair care products. This position is responsible for formula verification, researching & developing innovative products from concept to finish done in a timely manner. Must be knowledgeable about the latest ingredients and application; highly organized with ability to effectively assess formulating issues and document findings accordingly. Ideal candidate must be highly flexible and must be able to multi-task as needed. Requirements: Bachelors degree in chemistry or related field. Should have at least 5 years formulating experience; must possess good verbal and written skills. If interested, please submit resume with salary history to: CAIston@paklab.com.

POSITIONS AVAILABLE

- Compounder (#1305-08) LaNatura is looking for an experienced Compounder to join our team in Los Angeles. The ideal candidates will have a good understanding of natural ingredients and formulation. The job responsibilities will include weighing and adding ingredients into process tanks, operating mixers, cooling and heating systems, creating samples, making required batch adjustments, and accurately recording each step in the batch records. Candidate must have necessary English, math and writing skills to perform job requirement. Bilingual is a plus (English/Spanish speaking) as well as experience operating other material handling equipment and completing manufacturing tasks. Position is M-F 6am to 3pm (times are negotiable). Please apply to lanatura@aol.com.
- Junior Account Manager West Coast (#1305-09) With value of independence, excellence and quality, SILAB is a leading manufacturer of innovative natural active ingredients for the cosmetic industry. Following constant growth in USA and linked to the West coast sales manager, SILAB INC. is seeking a junior account manager based in our office in Long Beach. Animated of a strong spirit of conquest, the selected candidate will have the ability to build and maintain effective relationships and loyalty with customers, decision-makers and influencers. Requirements include Engineer/ BS/BA in Biology, Biochemistry, pharmacy. 1 to 3 years of successful sales experience in personal care. Please send your resume to silab@silab.fr.

POSITIONS WANTED

- **Sales Position Wanted (#1305-03)** - Brazilian and American citizen, pharmacist, looking for an R&D or COSMETICS RAW MATERIAL SALES POSITION in SAO PAULO, BRAZIL, ASAP, due to family reasons. Ready to start there in May/2013. 3.5 years of experience in R&D of cosmetics in Los Angeles area. Please email juliana_vicente2003@yahoo.com or call (310)6210744.
- **Chemist Cosmetics R&D (#1305-06)** - French Chemist Cosmetics, Masters degree in chemistry specializing in Engineering Cosmetics, currently working for a dermatological laboratory in Paris, looking for new international opportunity, 2 years of experience, and an internship in California. Please contact j.roque@voila.fr.

*This monthly listing is a free service to all members of the SCC. To place a technical job listing in the Cosmegram, a maximum of 100 words, **please e-mail your job listing to John Garruto, Employment Chair at jgarruto@skinmedica.com** or Bethany McCarver at bmccarver@skinmedica.com. Please limit to technical positions only. When the position is filled, please notify Bethany McCarver to have the listing deleted. If we do not hear from you, it will be removed after two months. To place an ad in the next issue, information must be received 20th of each month. Please note: We do not knowingly publish listings that have been placed with a search firm and are not responsible for duplicate listings. We also do not release the names of job seekers unless directed to do so by the job seeker.*

SOCIETY OF COSMETIC CHEMISTS

CALL FOR PAPERS – PODIUM PRESENTATIONS ONLY*

ANNUAL SCIENTIFIC MEETING & TECHNOLOGY SHOWCASE
DECEMBER 12-13, 2013
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:

- Recent Advances in Processing & Scale Up Technology
- Nanotechnology: Ongoing Controversies
- Evolving Regulatory Issues for Cosmetics
- Beauty – How to Achieve, Create and Accomplish it
- New Technologies for Claims Support/Measurements
- Anti-Aging: Formulating for Perceivable Benefits

SUBMISSION DEADLINE: MAY 1, 2013

NEW for 2013: All abstracts must be entered online at our website www.sconline.org.

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 Shaw Mudge Award sponsored by BASF Corporation, 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 2013 Technology Showcase (Poster Session) will start in July 2013 with a September 15th deadline.



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Skin Care Ingredient Series for Cosmetic Professionals

Offered in cooperation with the **California Chapter of the Society of Cosmetic Chemists and Beauty Industry West.**

Spring & Fall 2013 at UCLA Extension

Part I | March 22-25, Friday-Monday, 9:00 am-5:00 pm

Part II | Nov. 1-4, Friday-Monday, 9:00 am-5:00 pm



This series offers a foundation from which all skin care professionals – regardless of scientific background – can understand current and future advances in skin care ingredient technologies. Starting with a basic review of ingredients used in product systems, students will become acquainted with regulatory issues, product claims and many of the myths pervasive in the world of skin care before moving into a high level overview of performance ingredients from the skin's point of view. Each section of the skin – from skin cells to dermal tissue – is examined throughout this two-part course, with popular ingredients designed to target specific skin sectors and conditions highlighted during the presentations. Suggested reading, blogs, websites and tutorials will be provided in each course for students interested in continuing the learning process.

Students are encouraged to bring skincare products with ingredient lists to discuss with the class. Tape recorders are also allowed.

WHO SHOULD ATTEND: Product developers, marketing managers, educators, sales representatives, raw material suppliers, estheticians, physicians, nurses or those otherwise involved in the development and promotion of skin care products should find the material highly applicable and appropriate to their level of specialty.

INSTRUCTORS: Both courses are taught by the team of **Rebecca James Gadberry**, lead instructor of the cosmetic sciences program at UCLA Extension since 1986, and **Irena Brown**, assistant instructor since 2008. Ms. Gadberry is the Chairman | CEO of YG Laboratories, past chairman of the California Chapter of the Society of Cosmetic Chemists, an award-winning journalist, educator and product developer, and is considered one of the skin care industry's leading ingredient authorities. Ms. Brown is a popular lecturer in the global skin care industry, former professor of esthetics at Seneca College in Toronto, Canada, and is a product development consultant specializing in skin care.

While the courses can be taken independently, Part I or the approval of the assistant instructor, Irena Brown, is required to take Part II. Ms. Brown can be reached at irenab@yglabs.com

Part I | INTRODUCTION TO SKIN CARE SCIENCE: VEHICLE INGREDIENTS, CLAIMS & REGULATIONS, THE EPIDERMIS & SKIN CONDITIONS

Part I of this program begins with a discussion of today's U.S. and global skin care markets as defined by size, key product and ingredient trends. Topics then move to guidelines for evaluating ingredient data; cosmetic and drug claims and regulations; organic claims and how to identify greenwashing. Common skin care myths are addressed during the discussions of natural, chemical, synthetic, organic and inorganic ingredients and an overview of basic skin care ingredients (alcohols, acids, esters, emulsifiers, surfactants, preservatives). The remainder of the course focuses on the epidermis, including skin-specific ingredients as they relate to barrier damage and repair, skin hydration, sensitive and stressed skin, rosacea and acne.

Part II | UPSTREAM TO DOWNSTREAM AGING

Part II of this program begins with a review of the skin's anatomy and physiology, including cell types and the skin's immune activity, then evolves into the inflammation cascade, free radical families, antioxidants, and sunscreens. Key skin conditions include upstream to downstream aging, hyperpigmentation, and the wound healing cascade. Cosmetic ingredients for each condition will be discussed. An overview of cell biology and cosmetic ingredients – with a tutorial on the human genome and epigenome designed specifically for cosmetic professionals – will also be

Introduction to Skin Care Science, Part I
Chemistry 802.5 REG# Y7189
March 22-25 Friday-Monday, 9am-5pm
Westwood: 204 Extension Lindbrook Center
Before Feb. 22: \$589/ After Feb. 22: \$645

Upstream to Downstream Aging, Part II
Chemistry 802.7 REG# Y7190
November 1-4, Friday-Monday, 9am-5pm
Westwood: 204 Extension Lindbrook Center
Before October 1: \$589 / After October 1: \$645

To register, call (310) 825-9971 or go to:
<https://www.uclaextension.edu/cosmeticchemistry>

For an outline of scheduled topics please see **reverse.**

OVER ▶

SCHEDULED TOPICS FOR PART I INCLUDE:

- The Skin Care Market & Trends
- Simplified Guidelines for Evaluating Scientific & Media Reports
- Regulatory Issues
 - Cosmetics & Drugs
 - Skin care claims
 - Regulatory agencies
 - New regulations affecting skin care
- Greenwashing in the Cosmetic Industry
- Definitions of Natural, Chemical, Organic, Inorganic and Synthetic
- Identifying Ingredient Sources
 - Recognizing Petrochemicals
- Ingredient Basics | How to identify sources and functions of:
 - Alcohols
 - Acids
 - Esters
 - Polymers
 - Surfactants
 - Emulsifiers
- Preservatives
 - Roles of Preservatives in Skin Care
 - Alternatives to Traditional Preservative Systems
- Skin Anatomy & Physiology
 - Epidermis
 - Major Skin Cells
- The Stratum Corneum
 - Barrier Damage & Repair
 - *Skin Penetration*: how to increase or inhibit absorption
 - Humectants & Hydration
 - Aquaporins
 - Delivery vehicles
- Epidermal Aging
- Exfoliants
 - AHAs, Salicylic Acid, Enzymes & Non-Acid Resurfacers
- Sensitive Skin
 - Recognizing Sensitive Skin
 - Allergic Skin
 - Common skin allergens
 - Fragrance allergens
 - The Physiology of Sensitive Skin
 - Ingredients Sensitive Skin Should Avoid
 - Ingredients to Calm & Control Skin Sensitivity
- Stressed Skin
 - Recognizing Stressed Skin vs. Sensitive Skin
 - The Biochemistry of Stress
 - Skin Effects of Stress Hormones
 - Ingredients to Control Signs of Stress
- Acne
 - The Biochemistry of Acne
 - 8 Pathogenic Factors of Acne
 - Ingredients Acneic Skin Should Avoid
 - Ingredients to Control Signs of Acne
 - Comedogenicity & Common Pore-Blocking Ingredients
- Rosacea
 - Acne & Rosacea Comparison
 - Recognizing Rosacea and the Four Subtype
 - The Biochemistry of Rosacea
 - Rosacea Causes & Triggers
 - Ingredients Rosacea Skin Should Avoid
 - Ingredients to Control Signs of Rosacea
 - Guidelines for Practitioners & Clients

SCHEDULED TOPICS FOR PART II INCLUDE:

- Review of Skin's Anatomy & Physiology
 - Epidermis
 - Epidermal/Dermal Junction
 - Dermis
- Cell Biology
 - Cell Types in the Skin
 - Nucleus | Chromosomes, Telomeres, DNA, Genome, Genes & Epigenome
 - Protein Synthesis and Functions
 - Mitochondria & Energy Production
 - Cell Membrane & Transport
 - Receptor Proteins & Cell Signaling
 - Chirality
 - External & Internal Cell Communication
- Skin's Immune System & Function
- Upstream Aging | Cellular Aging
 - Gene Expression & Aging
 - CLOCK Genes
 - DNA and DNA-Repair
 - Heat Shock Proteins
 - Stem Cells
 - Sirtuins, Telomeres & Cell Senescence
 - Mitochondria, Oxygen & Cell Energizing
- Free Radicals & the Reactive Oxygen Species
 - Direct & Indirect Antioxidants
 - Phase II Enzymes
 - Reactive Nitrogen Species, Reactive Carbonyl Species
- Environmental Damage:
 - UV & Its Effects on Skin
 - Sunscreens: what the non-chemist needs to know
 - The Effects of Smoke & Smog and Ingredient Protection
- Skin Inflammation
 - The inflammation cascade
 - Cosmetic "anti-inflammatories"
- Pigmentation & Hyperpigmentation
 - Skin Lightening & Brightening: Upstream vs. Downstream Inhibition
 - Proteosomes & Lipofuscin
- Downstream Aging | Tissue Aging & "Anti-Aging" Ingredients
 - Aging in the:
 - Epidermal/Dermal Junction
 - Dermis
- The Wound Healing Cascade
 - Cosmetic Ingredients that Support the Wound Healing Process



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For Further Information Contact:

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Society of Cosmetic Chemists - California Chapter - April Meeting



Society of Cosmetic Chemists - California Chapter - April Meeting



Society of Cosmetic Chemists - California Chapter - 2013 Dinner Dance



Society of Cosmetic Chemists - California Chapter - 2013 Dinner Dance



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INSTRUCTED BY LINDA D. RHEIN, M.S., Ph.D.

JUNE 17, 2013

8:30 a.m. – 4:30 p.m.

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COURSE OUTLINE

Who should attend: Cosmetic chemists, formulators/development chemists, skin scientist involved in claims substantiation, clinical scientists in cosmetic companies and general scientists in the cosmetic industry, young scientists in the cosmetic industry, scientists in dermatology research in pharmaceutical companies.

- Overview:**
- Skin Structure and Function, Skin Appendages.
 - Ichthyosis Dry Skin/Winter Xerosis, Skin Moisturization, Skin Instrumental: TEWL, Cutometer (Conductance/Capacitance, and Prolifometry/Skin Replica: Other Assessments (Comedogenicity, DeSquames, Sensory).
 - Skin Lipid and Associated Abnormalities.
 - Aging Skin (Intrinsic & Chronological Aging), Mechanisms (Free Radicals/Antioxidants & UV Damage/ Photocarcinogenesis, MMPs, Transforming Growth Factor Beta, Estrogens, Angiogenesis').
 - Aging Skin – Treatment Strategies: Sun Damage and Sunscreens, Retinoic acid, BoTox, Chemical Peels, Laser Treatments, Naturals.
 - Tanning/Whitening, Melanogenesis.
 - Immunology, Irritation and Allergic Contact Dermatitis, In Vitro Irritation, Standard Toxicology Tests: Acute (LD50) and Chronic Toxicity, Mutagenicity, Reproductive Toxicity.
 - In Vivo Safety Testing, Cumulative Irritation (Patch) Testing, RIPT, Photoallergy and Phototoxicity; Alternatives to Animal Testing – Issues EU.
 - Other Skin Pathologies: Eczema, Psoriasis, Fungal Infections, Viral (Warts), Skin Cancers, etc.

About The Instructor

Linda D. Rhein, Ph.D. 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 the 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.

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How To Prevent Cosmetic Chemist Career Boredom

Perry Romanowski

I worked as a *formulator for 17 years at a medium sized cosmetic company. We were primarily a hair care company so I spent most of my time creating new shampoos and conditioners. I did have the opportunity to occasionally make styling products and skin lotions but this was not my focus.

Well, the reality was that most of my projects involved taking an existing formula, making minor tweaks to the color, fragrance or other claims ingredients and making sure it remained stable. After a while, it got pretty easy... and dull.

Sure, many projects were more interesting than this but the reality for cosmetic chemists (especially at big companies) is that most of your time will be spent making incremental improvements to things that already exist. So eventually, you might start to get bored.

Here are 10 things you can do to combat career boredom.

1. **Experiment with new raw materials** – Raw material suppliers are always coming out with new things and unless you try them in your formulations, you'll have no idea how they work. In truth, most of the new raw materials won't do anything new. But you've got to keep looking. Create a baseline formula and then whenever you get a new raw material, try it in that formula. This is also a great way for you to learn about raw materials that you may not have used.
2. **Make your own formulas** – If you want to be a proper formulator, than you have to be able to formulate everything. When I was at the shampoo company there really were no projects for making products that the company didn't market. For example, color cosmetics, antiperspirant, toothpaste, soap, lipsticks, etc were all things that I never had a formal project to make. But how can you call yourself a formulator if you can only make a limited number of formulations? Go through this list of free cosmetic formulas and start making things that you would never have to make. Make products that you want to use. Tweak them so you understand how things affect the final formulas.
To be a formulator, you have to be able to make all types of formulas
3. **Try to solve problems without formulations** – If your formulating job is getting dull, try creating solutions to cosmetic problems without making a formula. Can you create a better absorbent towel to speed up hair drying? Can you create an app that might solve some cosmetic problem? As a cosmetic chemist you are an inventor. Formulating is simply one type of invention. Spend some time coming up with other types of inventions.
4. **Make a plan to get promoted** – When you're at a job for any length of time and you know you're a good worker, you'll get the urge to get a promotion.

Often this means more money, more decision making power and sometimes even more influence on your peers. But just because you are the best formulator doesn't mean you will get promoted. You need to figure out how to get promoted. Create a plan, a timetable to achieve it, and start doing the things you need to do. Often, this means sucking up to people who have the power to promote you. And if your company isn't willing to promote you, don't be afraid to look at other companies. Remember...

No matter who signs your paycheck you are always working for yourself.

5. **Write** – Another excellent thing for your career is to start writing. Industry magazines are hungry for content from new authors and so are the various SCC newsletters. And you don't even need a publisher to start writing. Create a blog, then just start doing it. Of course, you have to be careful. Some companies will frown on your extracurricular activities. They might become particularly concerned that you'll give away a company secret or something. If you are in this boat, you might want to do your writing anonymously. It is less satisfying and not as helpful for your career but it is still a great way to get your message out.
6. **Teach a class** – Teaching a class about cosmetic science is also a great way to keep yourself inspired in your career. The SCC produces a number of one-day classes and they are frequently looking for fresh new faces to be instructors. If you've built up an expertise in one area, then you might be able to teach a class. However, your company might frown on this activity too so make sure you get your boss's permission.
7. **Go back to school** – There's nothing like taking classes to keep your mind fresh and your career interesting. Look through this list of cosmetic programs around the world and consider getting involved in one. An additional bonus is that you can often get your company to pay for the costs of training you.
8. **Learn about the business** – Here on Chemists Corner we like to encourage entrepreneurs. As a trained scientist you probably didn't get much chance to learn about business and making money. Do this! It will be good for your career and could eventually lead to you starting your own company. I've always believed that the smartest people should be the ones who start companies and as a scientist, you qualify. If you're curious, see our free ebook start a cosmetic line.
9. **Get involved with your trade organization** – When your job has become less than satisfying, getting involved with a trade organization like the SCC is an excellent opportunity to infuse some excitement back into your career. They are always

looking for volunteers so it will be easy to get involved. This is a great way to gain experience in management and getting things done. Also, you can't beat the power of networking for helping you solve problems and advance your career.

10. **Remain curious** – Finally, if you are bored then you are not being curious enough. Start asking questions about things you do not know about and find answers. Keep a list of these questions and find answers. You are a scientist and although

formulating is your career focus there are still lots of scientific problems that don't have answers. I love to keep up on the latest in physics, space, biology, mathematics, and more. Think of the big problems in the world and brainstorm ideas on how you might solve them.

For more articles like this, visit www.chemistscorner.com

What's Wrong With This Formula?

By Ken Klein

Pearlescent Baby Shampoo

PHASE	INGREDIENT	%
A	Water	45.25
A	Sodium Laureth-2 Sulfate (28% active)	30.00
A	Cocamidopropyl Betaine	4.00
A	Cocamide MEA	7.00
A	Tetrasodium EDTA	1.00
B	Methylparaben	0.75
B	Propylene Glycol	7.50
C	Fragrance	2.00
D	Glyceryl Stearate	1.50
E	Blue 1	1.00

PROCEDURE: HEAT PHASE A TO 70C. ADD PHASE B. COOL BATCH TO 25C AND ADD REMAINING PHASES.

ERRORS:

1. Sodium Laureth-2 Sulfate has too low a level of EO(ethylene Oxide). This will be irritating!
2. Cocamidopropyl Betaine level is too high.
3. Cocamide MEA level is too high and would be irritating in this shampoo.
4. Tetrasodium EDTA level is 10 times too high!
5. Methylparaben level is too high. It should be used at 0.1-0.2%.
6. The fragrance level is too high, and would cause this shampoo to be cloudy and irritating.
7. Glyceryl stearate should be added above 60C. Additionally, this shampoo would be opaque not pearlescent!
8. This product is not adequately preserved.
9. Color level is much too high.

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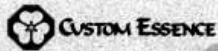
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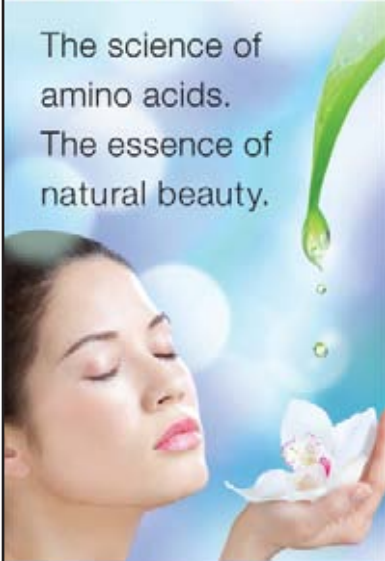
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- **Optional table adjacent to the registration table to distribute literature and samples by one or two employees.**
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- **Your company name and location will be included in all meeting announcements, including our monthly newsletter (Cosmegram) and all email announcements and reminders.**
- **Your company name will appear for one month on the SCC website as "This Month's Sponsor", which will include a link to your company website.**
- **Your donation to sponsor a meeting is tax deductible with our non-profit status.**

Cost: The cost to sponsor a SCC chapter meeting is \$350.

Please contact Yi Hsin Chang or Guy Langer if you are interested or have any questions.

Yi Hsin Chang
Sponsorship Chair
yihsin2003@yahoo.com

Guy Langer
Sponsorship Co-Chair
guylanger@aol.com
(818) 606-7060



Announcements

Annual Scientific Seminar

The 2013 Annual Scientific Seminar will be hosted by Area II on June 6-7, 2013. The location will be the St. Louis Union Station Hotel. The best of the best in our industry will be presenting some outstanding talks on the most up-to-date advances. Please plan to attend.

We Want You!...2013 Elections for the California Chapter of the Society of Cosmetic Chemists

We are looking for candidates to run for Chair-Elect (Chair-Elect in 2014, to become Chair in 2015), Treasurer-Elect (Treasurer-Elect in 2014, to become Treasurer in 2015), and Secretary (one year service in 2014). Chair-Elect nominees must have served the Chapter either as an elected officer previously or as a member of the Chapter Executive Committee for at least one of the previous three years. Treasurer-Elect and Secretary nominees do not have this requirement. To be a qualified candidate for all positions, you need to be a General Member of the SCC.

Elected Officers and Board Members are volunteer positions. While it may require hard work, dedication, and commitment, serving your local chapter can be very rewarding! You will be the voice to represent our members on a local and national level.

If you are interested in running for an Executive Board position, please contact Karen Chun (Nominations & Elections Committee Chair) at kchun@barnetproducts.com or (714) 325-3109. Candidates will need to be finalized by September 6th and the election will be held in early October.

SCC Contact Information Changes

If you are a member of our chapter and your information (ie. name, address, company, phone numbers, email address) has changed, please make sure you contact us with the new information so we can update our database. If changes are not sent to us, you may not be getting your newsletter, meeting notices, course registrations, etc. Please contact Tina-Marie Lesko at tmlesko@presperse.com with any changes.

Discounted Meeting Price For Members!

SCC members will receive a discount of 50% off the pre-registration fee for monthly meetings. That means members with reservations will only pay \$20 to attend our monthly chapter meetings. What you would save on the cost of a few meetings would will more than make up for the cost of membership. So if you aren't a member, sign up today!

Free November Meeting for Members!

In addition to offering our members half off the cost of meetings for this year, the board has decided to make this November meeting free to all members with a reservation. It's now a better time than ever to become a member or to renew your membership. Please talk to Tina-Marie Lesko for more information about how to become a member.

Thank you for Content

The editor would like to extend their thanks to Ken Klein for his contribution to content for the Cosmegram with his articles, What's Wrong with this Formula, and chemistry jokes. Also a big thank you to Guy Langer for forwarding along that content. If you have something you'd like to see printed in the cosmegram, feel free to send any content to stran@awareproducts.com.

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Deadline for the September Cosmegram is **August 24**

Please forward all content to
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