

Dinner Hour

Application of Genomics Tools for Personal Care Product Development



Anna Jelaso Langerveld, PhD
President and CEO
Genemarkers LLC

Breakthroughs in genomics offer new opportunities for developing highly efficacious products that target specific skin concerns (i.e., aging, redness). The Human Genome Project produced two major technologies for measuring which genes are "turned on or off" in a given situation: DNA microarrays and quantitative real time PCR (qRT-PCR).

These tools, utilized in all areas of medicine to define "healthy versus disease" states, are rapidly being incorporated into personal care product development. Many cosmetic chemists are already experiencing this as they are presented with data from raw material suppliers.

This presentation will provide an overview of basic genomics principles, the predominant technologies, and how they are being applied to the personal

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Educational Hour

The Challenges of Formulating "Beauty from Within" Products for Skincare: What Does the Sun Have to Do With It?



Howard Epstein

Director of Technology and Business Development
EMD Chemicals

A common belief of nutritional experts during the past decade was that the root cause of many diseases of aging was cumulative oxidative damage. This view appeared to be supported by the history of nutrition containing numerous examples of nutritional components in the diet that are directly linked with the health of skin.

Numerous foods, dietary supplements and topical products are commercialized promoting health benefits claimed to be provided through anti oxidant and other biological properties. More recently epidemiological observations indicate that many nutrients taken orally are not delivering the health benefits claimed.

This presentation will review the factors to be

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Meeting Details:

Date: **Tuesday - February 26, 2013**
Location: **Los Angeles Airport Marriott Hotel**
Menu: **Chicken or Vegetarian**

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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Reservation Deadline: 12:00 p.m. (noon) Friday-January 18
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Meeting Details

Location

Los Angeles Airport Marriott Hotel
5855 W. Century Blvd.
Los Angeles, CA 90045
(310) 641-5700

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

Chicken or Vegetarian

Reservations

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.

New Members

Hospitality Corner

The California Chapter of the Society of Cosmetic Chemists would like to welcome the following new member to our Chapter:

Alka Sharma – *Actiogen Corporation*
Darwin Tandam – *Neutraderm*

Please greet our new members at upcoming meetings and events. Do you know a new member? Contact Tina-Marie Lesko at tmlesko@presperse.com so we can include them in the Hospitality Corner for future Cosmegrams.

Society of Cosmetic Chemists - California Chapter

2013 Calendar of Events

February

26 California Chapter Monthly Meeting *Los Angeles Airport Marriott Hotel*

March

26 California Chapter Monthly Meeting *Los Angeles Airport Marriott Hotel*

April

6 California Chapter Dinner Dance *Huntington Beach Hyatt Regency*
23 California Chapter Monthly Meeting *Los Angeles Airport Marriott Hotel*

Dinner Hour

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care industry. It will also address interpreting and understanding the data from suppliers and how genomics methods will improve product development and market share for companies that want to demonstrate that their products are the best on the market.

About Our Speaker

Anna Jelaso Langerveld, PhD, President and CEO of Genemarkers LLC, has more than ten years of experience with state-of-the-art genomics methods. The former director of the Western Michigan University Environmental Institute Genomics Facility (2000-2005), Anna played an instrumental role in carrying out Affymetrix and Taqman qRT-PCR analyses for neurobiological, environmental

and animal health applications.

Anna founded Genemarkers LLC in 2007 and conducts contract-based genomics research for a myriad of clients, ranging from small skin care companies and university researchers to large companies, such as Pfizer and NuSkin. Her gene expression work has been published in numerous peer-reviewed journals, cited in the Wall Street Journal, and featured in Cosmetics & Toiletries (May, 2009) and GCI (June, 2010).

Anna received her BA from SUNY Binghamton and her PhD from the Interdisciplinary Program in Neurosciences at Tulane University (1998).

Educational Hour

...continued from page 1

considered in formulating nutritional products for skin, and rationalize the conclusion that both oral and topical approaches are optimal for promoting healthy looking skin.

About Our Speaker

Howard Epstein is Director of Technology and Business Development at EMD Chemicals in Philadelphia, PA. He received his Ph.D. in pharmacognasy from the Union Institute and University in Cincinnati, Ohio. Howard has many years experience in the cosmetics industry in the formulation and quality control of pigmented and skin care products.

Howard is currently editor of the Journal of the Society of Cosmetic Science and is a member of the International Academy of Dermatology. He is on the editorial board of the dermatological journals Clinics in Dermatology and SKINmed representing the cosmetics industry to dermatologists. Howard has authored chapters in various cosmetic technology textbooks and a chapter in the Manual of Gender Dermatology on cosmetic interventions for skin.

He holds eight patents and two patent applications and is continuing his research in photoprotective botanicals.

Announcements

New Cosmegram Banner Contest

We are looking to update our banner for the Cosmegram. Please submit all entries to stran@awareproducts.com. The deadline will be April 1st. We will select a winner from all the entries and they will receive a \$200 gift certificate. Your participation is strongly encouraged!

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.

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!

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A History Lesson from a Non-Historian...

Liz Streland

Croda

If you were to ask my husband to comment on my interest in history, he would simply laugh. That's because he's known me for nearly 28 years and has accepted that I just sort of zone out when someone starts talking about the "H" word (with the exception of John Luna's Historian column, of course!) For some strange reason, though, I have thoroughly enjoyed reading about the history of the SCC and, in particular, our California Chapter.

As I mentioned in last month's column, 2013 marks the 55th anniversary of the California Chapter. Five years ago, in celebration of our 50th "birthday", the Chapter put together a keepsake handbook that chronicles the history of the SCC and the California Chapter. This handbook was sent to every then-current member of the Chapter in 2008. It has a lot of great information and photos and was a great reference for this article.

The founding meeting of the Society of Cosmetic Chemists was held in New York City in May of 1945. Maison deNavarre, the father of the SCC, was chosen as Chairman. At the second SCC meeting in December of that year, he became the Society's first President. Today, there are 19 regional chapters in the US and Canada and over 4000 members.

Our California Chapter was the third Chapter formed following the Chicago Chapter (now known as the Midwest Chapter) and the New York Chapter. The Founding Dinner of the-then Los Angeles Chapter took place on March 18, 1958. (In case you were wondering, I was not there that night.) Twenty-seven chemists gathered and installed Dr. Paul Jewel as Chairman and Betsy Bevins as Secretary.

The first monthly meeting was held on April 24, 1958, at the then Rodger Young Auditorium (near the intersection of the 10 and 110 freeways) in Los Angeles. Historical weather records indicate it was a clear day with a high temperature of 72F and a low of 55F. (Wow, I am REALLY getting into this history thing!) By the end of that first year, the chapter had 43 members. Today, with ~550 members, our California Chapter is the second largest of the Society's 19 Chapters.

Our Chapter's monthly newsletter (now called Cosmegram) started in 1959 as a 1-page typed

document informing members about the next meeting, speaker information, and a message from the Chapter Chair. You can see how it has evolved over the years to what is now a professionally-assembled communication with an Editor (Serina Tran) and Business Manager (Brian Kolevar).

This coming September, we will hold our (biennial) Supplier's Day for two days at the Long Beach Convention Center. Once again, seasoned Supplier's Day veteran Angie Inouye will serve as Supplier's Day Chair. The first Supplier's Day started as the "New Products Seminar & Show" in 1983 at the Proud Bird Restaurant in El Segundo. There were approximately 50 exhibitors and 250 attendees. Contrast that with our 2011 Supplier's Day which had 325 booths and over 2500 registrations! Wow!

Well, I think I am about to reach my history limit for one sitting, but before I close I would like to, on behalf of our California Chapter, extend a sincere welcome to the brand new Michigan Chapter who held their first meeting on January 23, 2013. The Michigan Chapter is the Society's 19th Chapter. I can't help but wonder if 55 years from now, the then-Chair of the Michigan Chapter will be looking back trying to capture the highlights of that first Chapter meeting for the "Message from the Chair" article. One thing is for sure—he or she probably won't be able to say it was 72F that day!

Take care,

Liz Streland

*2013 Chair, California Chapter
Society of Cosmetic Chemists*



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POSITIONS AVAILABLE

- **COSMETIC CHEMIST (#1212-01)** Orange county, CA organic skin care start-up is looking for a consultant, working on a contract basis, to create a new line of products. We need someone who can help with the purchasing of equipment and who possesses experience in product formulation with an emphasis in natural ingredients and natural preservative systems. Lab and production set-up experience is helpful. Please contact marybunnett@yahoo.com.
- **QC LAB TECHNICIAN (#1212-02)** Personal Care Products manufacturing firm has an immediate full-time opening for a QC lab technician. This individual will perform daily bulk product and raw material physical testing. Perform batch adjustments under QC director's supervision. Update and maintain QC and raw material Standards. Report non-conformances. Perform other tasks based on department needs. This position reports directly to Director of QC. The ideal candidate will have previous experience with Personal Care Products testing, a high school diploma with 4 years' experience or bachelors of Science with 2 years' experience in a lab. Ability to effectively read, write and understand the English language. Bilingual English/Spanish is a plus. Thorough knowledge of MS office. Must be able to multi task and work under minimum supervision. Please submit your resume to: hnnatural@gmail.com.
- **COSMETIC CHEMIST (#1212-03)** New Look Cosmetics, a San Fernando Valley based cosmetics manufacturer, is seeking candidates for the position of Cosmetic Chemist. Qualified candidates should possess the following: 5 years experience in formulation of color and powder cosmetics, knowledge and familiarity with GMP and SOP procedures, preparation of IL, MSDS and CofA, perform stability testing, and have a firm understanding of chemical/formulation ingredients and principals. Candidate must be able to work under minimal guidance within a team setting and interface with various other groups including manufacturing, regulatory, marketing, and management. Must be creative, possess strong problem solving ability, have strong communication skills and technical writing ability, and be computer literate. BS degree in Chemistry or related field is preferred, but not required. Qualified candidates please send resume and salary history to: newlookcosmeticshr@yahoo.com.
- **COSMETIC CHEMIST (#1212-04)** - Face Reality, Inc. is a rapidly growing company located in the San Francisco Bay Area. We currently operate an acne clinic, have our own line of acne products and train skin care professionals throughout the country who wish to become acne specialists. We are looking for an experienced cosmeceutical chemist that we can utilize from time to time to assist us with analyzing and developing existing and new formulations. Contact: Patrick Romani (510) 351-1842 info@facerealityacneclinic.com.
- **R&D CHEMIST (#1212-05)** Blaine Laboratories Inc, is a major OTC manufacturer seeking a Chemist to work in the Research and Development Laboratory. We are located in Santa Fe Springs, Ca. This position reports directly to the Director of Manufacturing Operations. Qualified candidate must have a strong bench background in topical formulations and responsible for new product development, testing, pilot batch processing, and improvement of current product lines. We offer a competitive salary with benefits. Please send resumes to S.licciardo@blainelabs.com.
- **SENIOR APPLIED TECHNICAL SCIENTIST-FORMULATOR (#1212-06)** Lipscomb Chemical is seeking an Applied Technical Scientist-Formulator for Personal & Home Care. This key individual will be starting up and growing a Southern California applications laboratory to support customers and enhance the Lipscomb Chemical technical sales effort. We are looking for a formulating expert for all of Lipscomb's supplier ingredients for personal and home care. The individual will serve as a resource for the Sales Team and assist customers with formulation and scale up issues. Additional activities will be to create interesting and effective formulations and prototypes. Qualified candidates must possess formulating knowledge for both personal and home care, have a technical degree, and reflect a career in delivering chemistry solutions. Lipscomb Chemical – Long Beach, CA is part of the OMYA Group - Oftringen, Switzerland. Applicants should send a resume to: Mark Stepanek, mstepanek@lipscombchemical.com.
- **WEST COAST SALES MANAGER (#1212-07)** West Coast Region - ALBAN MULLER INTERNATIONAL USA, The "Natural Product designer": seeks an experienced/ qualified candidate for the position of West Coast Sales Manager - West Coast Region. Responsibilities include: Develop/ implement account specific sales strategies to meet/exceed budget. Call only on Key Accounts to understand their needs. Present/ promote new and alternative ingredients/ technology. Obtain/ evaluate feedback on samples and technologies. Manage/Direct our local West Coast distributor's sales team who will be calling on smaller accounts. Prepare forecasts and reports. Interface with product management, customer service, procurement and technical teams. Participate in trade shows/sales conferences/sales meetings. Awareness of market trends, new technology, pricing, and customer projects. Requirements include: BS/BA, Chemistry or Biology. 5+ years sales experience in the chemical/ personal care industry. Please forward resumes to evelyne.bismuth@albanmuller.com.

POSITIONS AVAILABLE

- **REGULATORY SPECIALIST (#1301-01)** The Color Factory seeks Regulatory Specialist to join our growing team. Candidate should have a BS degree in Biology or Chemistry or related fields, and must have 2-5 years experience in the cosmetic industry (Regulatory experience preferred). Excellent communication skills, strong knowledge of FDA guidelines, and a working knowledge of cosmetic formulation/raw materials are also strongly preferred. Candidate will manage product/facility (FDA, CA, ATF, CARB) registrations, provide regulatory/technical support to Sales & R&D for new product concepts, product claims and issue documentation to meet regulatory & customer requirements. The Color Factory offers a competitive salary and benefits package. Send resume and salary history to jobs@colorfactoryla.com.
- **SENIOR CHEMIST – NEW PRODUCT DEVELOPMENT AND LAB MANAGEMENT (#1301-02)** Creates and develops new Color Cosmetics products, innovative ideas, processes, protocols, techniques, and systems. Manages technical aspects of projects; leads and manages lab technician team. Uses project management planning techniques to drive multiple concurrent new technology opportunities to sound proof of principle and final development stage. Identifies and/or evaluates materials or technologies to assess technical performance. Uses experimental designs, researches, analyzes and interprets data to determine feasibility/efficacy of proposed solutions. Proactively scans and researches new concepts, materials, technical opportunities and partnerships. Provides, interprets, and communicates practical technical information using standard formats and archiving methods. Please send resume and salary history to jobs@colorfactoryla.com.
- **MECHANIC (#1301-03)** McKenna Labs is looking for an experienced Mechanic to join our team in Anaheim. The ideal candidate will have a minimum of 5 years working in a similar environment, the ability to set up and maintain bottle filling equipment, tube fillers, conveyors, labelers, ink coders, etc. The job responsibilities will include setting up and breaking down filling lines, following a robust PM program, building maintenance, etc. This is a full-time position that reports directly to the Mechanic Supervisor. McKenna offers paid vacation, health insurance, and a 401(k) plan to our employees. Send resumes to careers@mckennalabs.com.
- **PRODUCTION PLANNER (#1301-04)** McKenna Labs is looking for an experienced Production Planner to join our team in Anaheim. The ideal candidate will have a minimum of 3 years planning experience, will require strong computer analytical skills, and the ability to go above and beyond the standard definition of multitasking. The job responsibilities will include, but certainly not be limited too, identifying issues that may delay production and recommending appropriate actions to resolve the delay, running MRP on a regular basis to identify raw material requirements, and coordinating with Purchasing and Operations to assure JIT delivery. This is a full-time position that reports directly to the Director of Operations. McKenna offers paid vacation, health insurance, and a 401(k) plan to our employees. Send resumes to careers@mckennalabs.com.
- **R&D LAB TECHNICIAN/COMPOUNDER (#1301-05)** 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 and salary requirements to employment@aboverinaldilabs.com.
- **COMPOUNDER SUPERVISOR (#1301-06)** Burbank area cosmetic manufacturing company is looking for an experienced individual with skills including Compounding of Cosmetics and Body Care Products, thorough understanding of manufacturing, scheduling, understanding of cosmetic formulating, and familiarity with cosmetic ingredients. This is a full time salaried position in management with vacation, sick and health benefits available. Bi-lingual (Spanish). Qualified applicants only may send resume attention: HR Manager at Sylvan04443@gmail.com.
- **INDEPENDENT SALES REP (#1301-07)** Stem Cell based skin care company looking for independent sales reps in Southern California. Candidates must have successful, outside sales experience and contacts in the "physician channel", primarily with plastic surgeons, dermatologists and medical spas. Experience in the pharmaceutical field is a plus. Good "people skills" with abilities to build relationships is an important quality. The company is looking for knowledgeable individuals that can work independently with a passion for medical or cosmeceutical product sales. Candidates can be independently representing other vendors as well. This is a very generous, competitively compensated, commission-only position. Please submit resumes to Linda Nelson at lnelson@lifelineskinicare.com.
- **QUALITY CONTROL CHEMIST (#1301-08)** Seeking a QC Chemist for successful, well-established natural skin care company. Responsibilities include execution of wet lab tests and instrumental analysis to ensure cosmetic & drug products meet criteria of identity, quality, purity, strength, and physical characteristics they're purported to possess. Minimum of 2 yrs of bench-level chemistry in pharmaceutical, food, or cosmetic industry is required along with a Bachelor's degree in Chemistry or Biology. To review full job description - please visit: <http://www.californiababy.com/help-wanted.html>. Please submit your resume & salary history by email to albert@californiababy.com.

POSITIONS AVAILABLE

- **JUNIOR ACCOUNT MANAGER WEST COAST (#1301-09)** 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.
- **COSMETIC CHEMIST (#1301-10)** Orange Lab, a cosmetics manufacturer, located in Orange County, California, is looking to hire a chemist with approximately 5 yrs experience in the cosmetics industry. Please send your resumes to info@orangelabusa.com.
- **REGULATORY AFFAIRS SR. SPECIALIST (#1301-11)** The Regulatory Affairs Senior Specialist is responsible for establishing, supporting, and maintaining procedures in the Regulatory Affairs Department to ensure compliance of all cosmetic products which are developed and distributed by Bare Escentuals. Requirements include: significant knowledge of global cosmetic and cosmetic/drug product regulations including; The Food Drug and Cosmetic Act (FD&C), The Fair Packaging and Labeling Act (FPLA), Good Manufacturing Practices (GMP's), Federal EPA and US state environmental regulations, as well as EU, Canada and Asia international cosmetic regulations. This position requires a minimum of 5 years regulatory experience in the cosmetic, personal care, or related industry. At least two years of demonstrated experience as a team lead and/or project management. Please email your resume to gchicoine@bareescentuals.com.
- **TECHNICAL SALES REPRESENTATIVE (#1302-01)** - NuSil Silicone Technology is looking to hire a Technical Sales Representative for the Western US. The candidate must have 3+ years of personal care experience with an emphasis on skin care. The candidate must demonstrate the ability to interact with customers regarding early ingredient specification in formulations, provide continuous technical support, and implement strategic sales plans to support corporate growth. Heavy focus on prospecting new customers and frequent travel throughout the Western US. BA or BS degree from a four-year college required. A self-starter working independently from home office; must reside in or near the Los Angeles, CA area, \$65k-\$75k year/ DOE. Apply online at www.nusil.com.
- **SALES REPRESENTATIVE (#1302-02)** - Major color cosmetic manufacturing company in Chatsworth is seeking experience sales representative to join our staff. Qualified candidate must be with pleasant and outgoing personality, Customers service orientated. Must be committed, positive, and hard working. MS Excel and PowerPoint experience is required, minimum of 2-5years sales experience will be an advantage preferably in personal care products. Good track record in corporate sales. Able to work under pressure. Excellent interpersonal and communication skills in both written and spoken. Ability to develop and deliver presentations. Strong interpersonal and communication skills. Please send your resume and salary history to HR@prishacosmetic.com or prishacosmetics@sbcglobal.net.
- **BUYER (#1302-03)** - Buyer needed for manufacturer & distributor of beauty/personal care products. Purchase commodity products, chemicals, & supplies. Obtain the best quality, service, value for products and services through effective bidding, negotiation, & supplier management. Involvement in identification of manufacturing needs, supplier selection, contract negotiation, and delivery arrangement. Must be familiar with consumer packaging, importing and understands MRP. Purchasing certification a plus. Minimum of 7 years of purchasing experience within a manufacturing environment. Proven track record in cost reduction and development of strategic sourcing strategies. Chemical purchasing experience a must. To apply, submit resume with salary history to jobs@aibeauty.com.
- **SENIOR CHEMIST (#1302-04)** - Senior Chemist needed for a manufacturer/distributor of beauty/skincare/ personal care products. Formulate novel UV-curable coatings and work with technical leadership to support marketing efforts to aggressively grow sales for Nail Group division. Contribute to the R&D team to drive innovation, and stay current with patent and chemical literature. B.S. Chemistry, 7 years experience or MS Chemistry, 5 years experience in the areas of acrylic polymer/monomer chemistry. Understanding of pigments, dispersions and dispersion techniques. Minimum of 5 years of hands on bench experience. Experience with formulating UV Nail coating a plus. Send resume w/ salary history to jobs@aibeauty.com.
- **ACCOUNT MANAGER (#1302-05)** - Lipotec, a subsidiary of Lubrizol, is hiring an Account Manager for the western US. Someone with experience in selling high tech active ingredients for cosmetics would be great for this role! Lipotec is one of the leading suppliers of cosmetic active ingredients in the world. Quality research and innovation are our priority. This philosophy combined with a dynamic and experienced team of professionals who constantly work with a service-oriented mentality make us possible to satisfy our customer's needs with a wide range of cosmetic active ingredients. (Req # 1202445) – Click on this link to apply - <https://lubrizol.taleo.net/careersection/eu2/jobdetail.ftl?lang=en&job=1202445>.

Job Opportunities

POSITIONS AVAILABLE

- **QA INSPECTOR (#1302-06)** - Los Angeles based cosmetic brand is looking for a QA Inspector. Responsibilities: Inspect incoming materials, generate reports for inspection, NCR and CAPA. Test packaging and formulas as necessary. Color matching experience a plus. Commute from Corporate office to warehouse and suppliers as needed. Must have a valid CA driver's license. Send resume to: charissa@anastasia.net or luca@anastasia.net
- **TECHNICAL SALES SUPPORT (#1302-07)** - Coptis the leading Formulation & Regulatory software company to the Personal Care market seeks a self-starter to join their team in Harrison NY. The ideal candidate will have a good understanding of the R&D Process in Personal Care or related industries with strong customer relation and computer skills. Responsibilities include but not limited to: Provide support to Coptis Lab software's users. Follow up with of customer requests and installations. Test new versions of Coptis Lab software. Write procedures and users manuals. Coordinate tasks with customers/sales and development team. Occasionally conduct customer training on location. Qualifications: Strong computer skills – Company will provide training. Minimum Bachelor Degree in Science, Chemistry or Biochemistry. Organized, rigorous, self-starter. Spanish bilingual a plus. To Apply: If you are interested in this dynamic position, please send your resume and salary requirements to: jobs@coptis.com
- **PURCHASING ASSISTANT (#1302-08)** - McKenna Labs is looking for an experienced Purchasing Assistant to join our team in Anaheim. The ideal candidate will have a minimum of 2 years purchasing experience, with an emphasis on the chemical side. This is a full-time position that reports directly to the Purchasing Director. McKenna offers paid vacation, health insurance, and a 401(k) plan to our employees. Send resumes to careers@mckennalabs.com.
- **PROCESS ENGINEER (#1302-10)** - Arbonne International/Levlad, has an opportunity for a Process Engineer at its Chatsworth, CA location. This position reports to the Director of Quality Assurance and Quality Control with primary responsibility to drive on-going process improvements and develop, review, revise, and maintain batch sheets, standard operating conditions, and SOPs for all current production processes. A Bachelor's degree in Chemistry or Chemical Engineering discipline with 3-5 years hands-on process engineering. Experience in OTC cosmetics or pharmaceuticals with direct involvement in validations, GMP, batch processing and liquid filling operation preferred. Please submit your resume to cmasotto@arbonne.com

POSITIONS WANTED

- **INTERNSHIP WANTED (#1302-09)** - My name is Whitney Duarte and I'm a sophomore at the University of Nebraska-Lincoln where I'm working towards a B.S. in Chemical Engineering and a minor in Spanish. While I'm a chemical engineering major my real aspiration is to work in the cosmetic chemistry field. I'm interested in obtaining a summer internship in any area of cosmetic science in order to better familiarize myself with the industry. I am also interested in job shadowing. If you have any information that would be beneficial in my search, I can be reached at wmjduarte@hotmail.com. I am also on LinkedIn. Thank you.

*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.*



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IntegriGEL O/W MO 2-11pH	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer (and) Mineral Oil (paraffinum Liquidum) (and) Trideceth-6	
IntegriGEL O/W SP	Sodium Polyacrylate	
IntegriGEL O/W 2-11pH PWDR	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer (ATBS)	Cationic 500
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Skin Care Ingredient Series for Cosmetic Professionals

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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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A service charge of \$30 is withheld from all refunds (full refund if course is canceled, discontinued, or rescheduled). The last day to receive a refund is April 26, 2011 for Part I and November 1, 2011 for Part II.

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You might be eligible for a tax credit or fees paid at UCLA Extension. For details, see the tax information in the general information section of the quarterly catalog, or visit uclaextension.edu.

Parking in Westwood Village

The UCLA Extension Lindbrook Center is located at 10920 Lindbrook Drive, at the corner of Lindbrook and Gayley. The closest campus parking is Structure 32 and adjacent Lot 36, accessible from the Veteran or Kinross Ave. entrance. Single-entry daytime (prior to 5 pm Monday-Friday) permits to both these facilities may be purchased for \$11 on a space available basis at the Westwood Plaza kiosk, just north of Le Conte. The facilities have a special \$8 single-entry rate after 5 pm, Monday through Friday, and all-day Saturday and Sunday, which may be purchased from a dispensing machine located at the Veteran Ave. entrance, for lot 36 on the 1st level for structure 32. You may also park in one of the many public lots at varying rates. For more information call (310) 825-9971 or (818) 784-7006.

For Further Information Contact:

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Society of Cosmetic Chemists - California Chapter - January Meeting



Society of Cosmetic Chemists - California Chapter - January Meeting





SOCIETY OF COSMETIC CHEMISTS
CALL FOR PAPERS – PODIUM PRESENTATIONS ONLY*
ANNUAL SCIENTIFIC MEETING & TECHNOLOGY SHOWCASE
DECEMBER 12-13, 2013
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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.



**Please scan QR code
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January 16th 2013

RE: Dinner Dance Bag Donations

The Society of Cosmetic Chemists is proud to hold this year's annual Dinner Dance Gala & Casino Night on April 6th, 2013 at the Hyatt Huntington Beach.

As this has been the custom each year, gift bags will be presented to all guests. This year, we are working with great companies to fill our bags so they will be better than ever! We would like to count you as one of these companies.

Please advise if you would be willing to contribute 900 units of a product which you feel best represents the value and quality of your company. Feel free to donate as many different products as you would like. If you are unable to contribute 900 units, we will gladly accept 450 units. All contributors will be acknowledged in the Souvenir Program and on the SCC website and newsletter.

You may ship the products to the address indicated below, or we would be happy to arrange for a pick-up.

Please ship donations to arrive to: Integrity Ingredients Corporation
Attn: SCC Dinner Dance
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Direct line: 619-504-6000

(For Tax purposes, the SCC EIN #22-2720622)

If you would like to participate, please provide the information requested below and fax the information to Maria Reighard at 310-782-0283 or email to mreighard@integrityingredientscorp.com. Thank you for your support and generosity!

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Product/s Description:	
Number of Pieces:	<input type="checkbox"/> 450 pieces <input type="checkbox"/> 900 pieces
Delivery Options:	<input type="checkbox"/> We will ship <input type="checkbox"/> Please pick up

We would like to begin our bag packing no later than March 28th 2013, so any contributions made at your earliest convenience would be greatly appreciated.

Best regards,

Maria Reighard

Maria Reighard
2013 SCC Dinner Dance Co-Chair



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2013 Society of Cosmetic Chemists Dinner Dance Gala

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The California Chapter of the SCC is pleased to announce that its annual Dinner Dance Gala and Casino Night will be held on April 6th, 2013 at the Hyatt Huntington Beach. We look forward to a fun filled evening!

Donors to the event will receive preferred seating and recognition in the souvenir program. Their names will also be prominently displayed during the event and in the SCC newsletter.

The participation of our members and suppliers is greatly needed to ensure the success of this event. Your generous contribution would be most appreciated.

If you would like to support the 2013 SCC Dinner Dance Gala, please complete the form below.

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Do you wish to be acknowledged in the program and at the event?	<input type="checkbox"/> Yes <input type="checkbox"/> No Company Name:

Please send high resolution Logo for those contributing in the top two levels to Maria Reighard at mreighard@integrityingredientscorp.com

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Or you may make your contribution through: www.CaliSCC.org

Best regards,
 Tiffany Jones 2013 SCC Dinner Dance Coordinator

How to Formulate Cosmetic Emulsions: A Beginners Guide

Ken Klein
Cosmetech Laboratories Inc.

To the public at large, cosmetic emulsions are just "stuff" that comes in tubes, jars, pumps or bottles that often costs too much and makes them look, feel or smell better. They look at the claims on the front of the package and are often promised (very cleverly I must add) miracles! They somehow don't see (or understand) the words that marketers use to make sure the FDA leaves them alone. A lotion reduces the appearance of wrinkles, it doesn't reduce wrinkles! When they look at the back label of the package, they are greeted with a long list of totally unpronounceable "chemicals." They, however, search for those ingredients they have been taught are beneficial: Aloe, vitamins, minerals, Jojoba, plant extracts, Tea, things from the sea, the list is endless.

We however, must be concerned with formulating an emulsion that acts as a delivery system for these beneficial ingredients while being safe, stable and, need I mention, cost effective (cheap).

This short article will discuss those ingredients that go into emulsions and why they are used.

A good place to start is with a definition of an emulsion.

An emulsion is a system of two (or more) immiscible materials (usually liquids) in which one material (the dispersed/internal phase) is suspended/dispersed throughout the other material (the continuous/external phase) in separate droplets. Most emulsions we will encounter will be designated as oil-in-water (O/W). Thus the oil phase is dispersed in the water phase as droplets. In the US approximately 95% of all emulsions are of this type. Water-in-oil emulsions have been used in night creams, make up remover creams, zinc oxide ointments for babies and sunscreens. Historically, they have had a greasy skinfeel, but more recent advances in emollient chemistry, more specifically silicone chemistry, have changed this perception.

A final comment before we delve into the ingredients used in emulsions. Many years ago a good friend and mentor of mine (Graham Barker) told me that all emulsions are inherently unstable, all we can do is postpone the day when emulsion separation will occur. Hopefully, until after the product has been purchased by the consumer and used. One exception to this "rule" comes with micro emulsions (very small particle size) which spontaneously form and are thermodynamically stable. I, for one, have never made an emulsion of this type and most likely never will!

And now on to our emulsions...

Here is a typical oil-in-water emulsion:

Water Phase

INGREDIENT	TYPICAL USE LEVEL (%)
WATER	60.0-85.0
HUMECTANT	2.0-5.0
PRESERVATIVE	0.05-1.0
EMULSIFIER	0.5-1.5
THICKENER	0.1-2.0
EMOLLIENT	0.5-2.0
"WHIFFLE DUST"	AS DESIRED
CHELATING AGENT	0.05-0.2

Oil Phase

INGREDIENT	TYPICAL USE LEVEL (%)
EMOLLIENT(S)	5.0-10.0
"ACTIVES"	AS PER FDA
ANTIOXIDANT	0.05-0.2
EMULSIFIER (PRIMARY)	1.0-3.0
EMULSIFIER (SECONDARY)	0.5-1.0
THICKENER	0.1-0.5
WAX	0.5-2.0
"WHIFFLE DUST"	AS DESIRED

MISC. Phase

INGREDIENT	TYPICAL USE LEVEL (%)
PRESERVATIVE	0.05-1.0
"ACTIVES"	AS PER FDA
FRAGRANCE	0.1-0.75
COLOR	AS NEEDED

Let's now go over each of the "ingredients" in some detail to discuss their functions and a bit about their chemistry.

Water:

This is of course the diluent/external phase. We like to use as much of it as possible since it lowers the cost of our product.

Humectant:

Humectants serve several purposes in emulsions. They can bind to water (through hydrogen bonding) and are thus considered to be "moisturizers." Good examples of humectants are: Glycerin, propylene glycol, m,p diol, butylene glycol, sodium hyaluronate, etc. Humectants can act as solubilizers for paraben preservatives and "actives." They can also help improve the rubout characteristics of emulsions by effecting spreading effects. This is used in liquid make ups to reduce streaking. Humectants can also improve the cushion (richness during rubout) of many emulsions. Lastly, humectants can

improve the freeze/thaw stability of both O/W and W/O emulsions. If you use them at too high a concentration, a sticky emulsion can be the result. As you can see they are very versatile materials.

Preservative:

As the saying goes..."if there is (available) water... there should be a preservative." The list of preservatives is very long but a few of the more popular ones are: methylparaben, propylparaben, DMDM Hydantoin, Quaternium-15, Imidazolidinyl Urea, Diazolidinyl urea, phenoxyethanol, benzyl alcohol, potassium sorbate, Iodopropanyl Butylcarbamate, etc. Care must be taken when choosing preservatives as regards packaging interaction, pH, interaction with other raw materials and many other considerations.

Emulsifier:

Generally speaking formulators should use several emulsifiers to make a stable emulsion. One should be put into the external phase and one (or two) should be put into the oil phase. Emulsifiers can be nonionic (uncharged)...most often ethoxylated, anionic (negatively charged hydrophobe)...most often soap (triethanolamine stearate), or cationic (positively charged hydrophobe (Dicetylmonium chloride)).

Thickener:

There are many thickening agents used in emulsions. At first glance it would seem that their function was to thicken emulsions. But, this is usually not the case! Their primary function is to improve high temperature stability. It is, of course true that they do have other functions: Thickening, suspension of particulate materials, effecting rubout characteristics, etc. Materials which are most often seen include: Polyacrylates, xanthan gum, Cellulosic gums, guar gum, magnesium aluminum silicate, carbomer, bentonites, etc. Great care must be taken to use them at low use levels, since they often impart stickiness to the finished product.

Emollient:

Emollients serve several functions. They impart lubricity to the skin and can help to solubilize drug actives such as sunscreens. They can be esters, ethers, fatty alcohols, hydrocarbons or silicones. Often they are combined to achieve unique skin feels as required by marketing. Care should be taken to insure that they are compatible/stable in the system chosen.

"Whiffle dust":

Here we have an almost limitless list of ingredients from which to choose. Your choice will be controlled by marketing, the latest trends and cost.

Chelating Agent:

Most emulsions, and most cosmetic products in general should contain a chelating agent! Their

function is to complex with metal ions (iron, copper, etc.) and prevents them from negatively affecting your product. They can improve/help maintain color, odor and preservation. Typical of this category are the salts of EDTA.

Waxes:

Waxes are used to thicken the oil phase of W/O emulsions and thus improve stability. Additionally they can reduce syneresis (oil bleeding) often seen in high oil systems by making the oil phase more coherent. They can also effect/improve the rubout characteristics of emulsions. Typically seen waxes include: carnauba, ceresin, paraffin, fatty alcohols, candelilla, beeswax, etc.

Actives:

These are materials that have been labeled as drugs by the FDA. As such, we must use them at approved use levels and make claims that follow the appropriate FDA monograph. Typical of this category are: Octinoxate (sunscreen), oxybenzone (sunscreen), Zinc Oxide (sunscreen or skin protectant), petrolatum (skin protectant), benzoyl peroxide (anti acne agent), hydroquinone (skin lightener), dimethicone (skin protectant), etc.

Fragrance:

Almost all emulsions will contain a fragrance. Often it is the main reason a consumer repurchases the product! Care must be taken to not use them at too high a use level or discoloration and/or irritation may result. Additionally, they will have a significant effect on the raw material cost of the product.

Color:

While many emulsions are white, there are quite a few that have added color. The purpose of the color may be to mesh with the product function. A cooling aftershave balm may be colored blue or light green. Or, it may be added to hide a discoloration due to the inclusion of a needed ingredient (green tea for example).

This has been a short introduction to the world of emulsions. To become an expert in this most difficult field does indeed require many years of hard work and many failed emulsions.

What's Wrong With This Formula?

By Ken Klein

PRODUCT: Conditioning Pearlescent Shampoo

	Phase	Ingredient	%
1	A	Water	35.40
2	A	Glycerin	12.50
3	A	Sodium Lauryl Sulfate (30% active)	20.00
4	A	Carbomer	1.00
4	A	Quaternium-15	2.00
5	A	Polyquaternium-10	2.50
6	B	Cocamide MEA	10.00
7	B	Propylene Glycol	5.00
8	B	Ethanol (95%)	7.50
9	B	FD&C Blue#1	1.00
10	B	Fragrance	1.50
11	C	Glyceryl Stearate	1.50
12	D	NaCl	0.10

PROCEDURE: HEAT PHASE A TO 75C. COMBINE PHASE B AT 30C.
COOL BATCH TO 25C AND ADD REMAINING PHASES.

There are at least 14 errors in the above formula.

- Errors:
1. Glycerin when used at 12.5% will negatively effect the viscosity
 2. Sodium Lauryl Sulfate is at too low a level (12% active is more typical)
 3. Sodium Lauryl Sulfate is too defatting for a conditioning shampoo
 4. Carbomer is not compatible with this formula
 5. Quaternium-15 use level is much too high (0.1-0.2% is more reasonable)
 6. Polyquaternium-10 use level is too high (0.3-0.5 is more reasonable)
 7. Cocamide MEA has a melting point of approximately 70C
 8. Ethanol has no positive function in this shampoo
 9. Use level of Blue #1 is much too high. This shampoo would look black!
 10. Fragrance level is much too high
 11. Glyceryl stearate must be incorporated at 60C or higher.
 12. Glyceryl stearate will make an opaque shampoo. Glycol stearate is the pearlizing agent
 13. NaCl level is too low for effective viscosity building.
 14. EDTA should have been included

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Friday; Sept.20, 2013		✓	✓	✓	
Saturday; Sept. 21, 2013		✓*	✓	✓	✓

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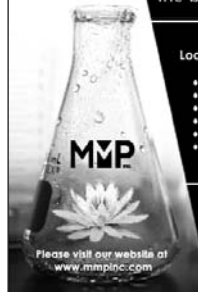
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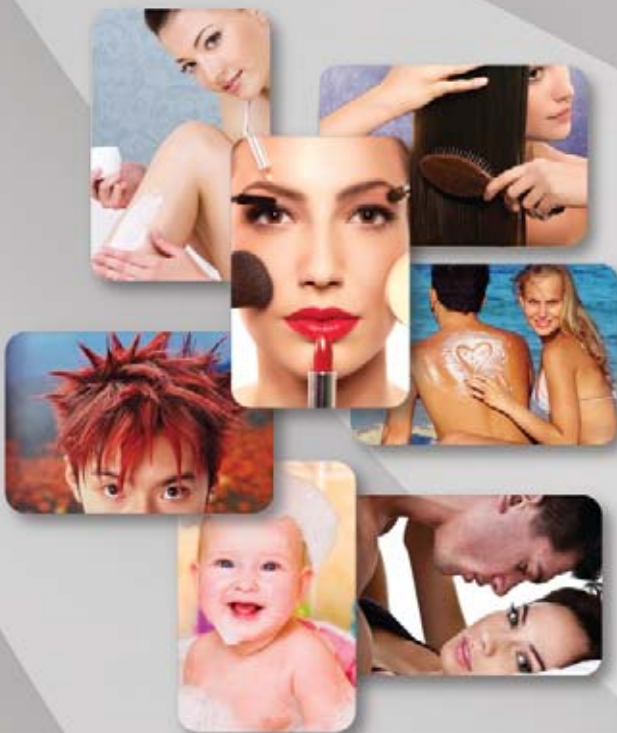
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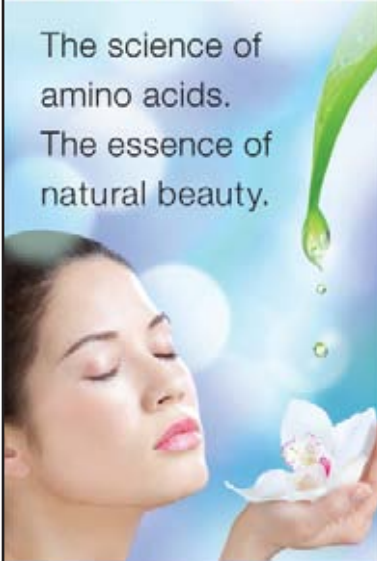
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Be the Next SCC Monthly Meeting Sponsor!

The SCC California Chapter is opening sponsorship opportunities to anyone interested in introducing their company during our monthly meetings.

The benefits of sponsorship are to provide you and your company with the following:

- **Approximately three to five minutes to introduce your company and employees, products, capabilities and/or services.**
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Please contact Yi Hsin Chang or Guy Langer if you are interested or have any questions.

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Chemistry Jokes

What Chemical is:

HIJKLMNO

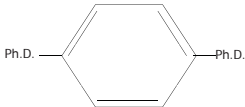
WATER

H to O

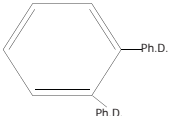
Why did the bear dissolve when he jumped into water?

It was a **polar** bear!

Paradox



Orthodox



Drinking!

H₂O is water
H₂O₂ IS Hydrogen peroxide
What is H₂O₄?

Avocado's number!

How many atoms are there in guacamole?

What "SONG" line is this?

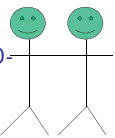
(NaCl-H₂O) (NaCl-H₂O)

C-C-C-C-C-C-C

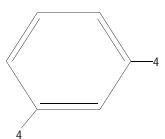
Saline, saline, over the seven seas.

Propyl people ether

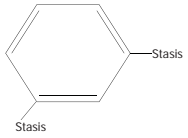
H₃C-CH₂-CH₂-O-



Metaphor



Metastasis



ter ter

C=C

Sister (cister)

ma

C=C

pa

Transparent(s)


Poly"mer"

mer-mer-mer-mer-mer-mer-mer

Mono"mer"

mer

What is this??



Dark Circles Under The "i"s

What do dipoles say in passing?

Have you got a moment?


Why does hamburger have lower energy than steak?

Because its in the ground state!

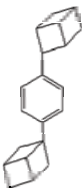
What weapon can you make from the elements potassium, iron and nickel?

A KNiFe


Periodic Table



Para-Dice



Jack Allantoin



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