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January 2012

Volume 42 | Issue 1

Dinner Hour

Skin Care 2012
A Look at New Launches and Trends



Suellen Bennett
Global Manager - Technical Marketing
Lonza Personal Care

Finished goods houses continue to try to wow the consumer with ever more efficacious products. Each day we see launches of skin care products that promise to deliver amazing results. In this presentation, we'll discuss what claims the latest crop of products are touting, and try to figure out what they are using to make these claims.

We'll also take a look at some of the challenges being faced by the formulator in the regulatory and global arena. The In-Commerce list in Canada, the Nagoya protocol and Access & Benefits Sharing (ABS), the INCI name crunch in China, Cosmos vs Ecocert - these are hurdles being jumped by formulators with amazing agility.

...continued on page 3

Educational Hour

Herbs and Superfruits for Beauty Inside and Out



Ellen Delisle
Technical Sales Manager
Personal Care Division
Bio-Botanica, Inc.

Herbs and Fruits have been used for thousands of years for wellness and beauty. Dr Kamhi will review some of the common herbs used historically and more recently for both ingestion and topically. These include oregano, rosemary, olive leaf, ginseng and various types of teas. In addition, she will look at some at some fruits like guava, papaya, goji, acai, mango, mangosteen and pomegranate for their both oral and topical benefits and why they are being used for beauty inside and out.

About Our Speaker

Dr. Kamhi has been involved in Natural Medicine since 1973, when she directed a program in Ethnobotany at Cochise College in Douglas, AZ. Dr. Kamhi attended Rutgers and Cornell Universities, sat on the Panel of Traditional Medicine at Columbia Presbyterian Medical School, and is a Clinical Instructor at Stony Brook Medical School, and at NY Chiropractic College, where she teaches Botanical Pharmacology.

...continued on page 3

Meeting Details:

Date: Tuesday - January 24, 2012
Location: Renaissance LAX
Menu: Chicken or Vegetarian

Educational Hour - 5:30 p.m. Social Hour - 6:30 p.m.
Dinner Hour - 7:15 p.m. Speaker - 8:00 p.m.

More Meeting Details on Page 2

Meeting reservations are strongly encouraged!

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Pay online at www.caliscc.org
or
Call (562) 236-5700 to reserve

Reservation Deadline: 12:00 p.m. (noon) Friday-January 20
If you reserve and do not attend, you are responsible for meeting charges.
You will be billed accordingly.

Inside this issue:

Calendar of Events...2 Job Opportunities...8 Regulatory Affairs...7 Advice to the Lab Lorn...22

### Meeting Details

#### Location

Renaissance LAX  
9620 Airport Blvd.  
Los Angeles, CA 90045  
(310) 337-2800

#### Costs

- \$40.00 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
- \$48.00 Non-members with reservations
- \$65.00 Non-members without reservations

#### Menu

Chicken or Vegetarian

#### Reservations

Please register and pay online at [www.caliscc.org](http://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

## 2012 Calendar of Events

#### January

24 California Chapter Monthly Meeting Renaissance LAX

#### February

28 California Chapter Monthly Meeting Renaissance LAX

#### March

27 California Chapter Monthly Meeting Renaissance LAX

## Announcements

### 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](mailto:tmlesko@presperse.com) with any changes.

### National SCC Contact Information Changes

As you know many SCC Members change jobs, relocate, etc. each year. Many do not know who to call or how to go about making an address change. The National Society of Cosmetic Chemists has created a form that is now available on the SCC website which allows members to make changes to their information and it is sent to us here at National. For right now, Members can access the change form under the Contacts Tab on the website. The actual link address is as follows: [http://69.36.162.213/SCC\\_Address\\_Change\\_Request.htm](http://69.36.162.213/SCC_Address_Change_Request.htm)

### Confused Chemistry Confronted by CIR (cont'd from pg. 13)

The question of the formaldehyde releasing preservatives was not addressed in this safety assessment. Even so, the CIR stated, "the formaldehyde releasers may continue to be safely used in cosmetics at levels established in their individual CIR safety assessments."

The hair smoothing issue was hotly debated amongst the CIR panel and it's likely that further discussions are needed to address several outstanding issues. As more is being learned about the chemistry, this will surely influence future discussions. For example, the PKSC presented some extraordinarily interesting data from an independent research laboratory, based on earlier work by Utterback, et. al.<sup>4</sup>, which demonstrates that methylene glycol exists in air and can be isolated separately and apart from formaldehyde gas, proving methylene glycol is a unique and stable substance that exists independently. This research also demonstrated that when formalin is vaporized on a 450oF flat iron, the predominant species in air is methylene glycol and not formaldehyde gas, as is widely believed. This is likely due to the equilibrium chemistry of formaldehyde and methylene glycol which greatly favors the latter in the presence of water vapor. This new information is likely to be of interest to researchers and regulators around the world and the debates are likely to continue.

<sup>1</sup> CIR Expert Panel Meeting, Buff Book 1, *Formaldehyde*, Dec. 13-14, 2010.

<sup>2</sup> Bedino, J.H., Expanding Encyclopedia of Mortuary Practices, No. 649, pg. 2619-20, 2003.

<sup>3</sup> Winkelman, J.G.M., Voorwinde, O.K., et. al., *Kinetics and Chemical Equilibrium of the Hydration of Formaldehyde*, Chemical Engineering Science, 57, pg. 4067-76, 2002.

<sup>4</sup> Utterback, D.F., Gold A., Millington, D.S., *Quantitative Analysis of Formaldehyde Condensates in the Vapor State*, Formaldehyde: Analytical Chemistry and Toxicology, Advances in Chemistry, Vol. 210, pg 57-65, 1985.

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**Deadline** for the February *Cosmogram* is **January 20**

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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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- **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.

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## Dinner Hour

### About Our Speaker

Suellen started her career in the Cosmetic Industry at Estee Lauder Companies, holding research scientist positions in BRD and the Microbiology Lab. Then she moved to Brooks Industries in their Technical Marketing department. After that, she held a variety of sales and marketing positions with Biosil Technologies, GE Advanced Materials and Croda. She is currently the Global Manager

## Educational Hour

She was nominated for the March of Dimes, Woman of Distinction 2004 and received the J.G. Gallimore award for research in science.

A respected authority in the field of natural healing, Dr. Kamhi is a professional member of the American Herbalist Guild (AHG), is nationally board certified as a holistic nurse (a-HNC). She works to bring together a body of modern and ancient practices and philosophies that use less invasive, less toxic, natural techniques to enhance wellness.

She is also the author of several books: Cycles of Life, Herbs for Women, The Natural Guide to

...continued from page 1

of Technical Marketing at Lonza Personal Care, which acquired Arch Personal Care Products in July 2011. She is active in the Cosmetic Industry and has served as the Chair for the New York Chapter of the Society of Cosmetic Chemists and Area I Director for the Society of Cosmetic Chemists.

Suellen holds a Bachelors' of Science degree in Biochemistry from St Andrews Presbyterian College.

...continued from page 1

Great Sex, WEIGHT LOSS-the Alternative Medicine Definitive Guide (2007), co-author of The Natural Medicine Chest and Arthritis and The Alternative Medicine Definitive Guide (1999, revised 2006).

She has been quoted in numerous print media including Marie Claire, Latina, Self, Woman's World, Cosmopolitan and Glamour, appears daily on radio/TV, and provides personal health consultations. In addition, Dr. Kamhi participates in the design and development of herbal and nutritional products for Bio-Botanica; [www.bio-botanica.com](http://www.bio-botanica.com) and Nature's Answer, Hauppauge, NY, [www.naturesanswer.com](http://www.naturesanswer.com).

### Message from the Chair

Happy New Year!!! I wish everyone a very happy and prosperous year. I believe each new year brings a new, fresh beginning filled with wonderful ideas, visions, and goals. I personally love the fresh start and the promise a new year brings. It's time to seize the day.

I would like to thank Rebecca James Gadberry, our 2011 Chair and the entire board for all their hard work and dedication. We now have a new, updated website, a new board position and another year's worth of knowledge brought to us by way of our speaker programs. Our society is built on team work and willingness to make a difference. We serve the chapter based on the common mission - facilitating continued education and high standards for our industry in which we love. I would like to reach out to members who have served in the past as well as to members who have been in the background, hanging back watching others serve. (I know you're out there!) It's time to step forward and approach me or someone else on the board to express interest in getting more involved in a big way or in a small way, it doesn't matter. It's a very rewarding experience and you won't regret it.

I'd like to extend a warm welcome our new officers for 2012: Liz Strelend (Chair-Elect), Karen Chun (Secretary), Michelle Carrillo (Treasurer), and Marieme Sane Haynes (Treasurer-Elect). We have a fantastic executive team and I have no doubt they will all do a stellar job representing you!

As far as the rest of the board, we are seeking a

new Sports Chair for 2012 so if you are interested or would like to learn more about what the role, please seek me out. We need you. I promise not to bite! Kevin Johnson Jr. did a fantastic job in 2011 but has stepped down and opened up this opportunity. This position is co- chaired with someone from SCIFTS so you will be working with someone who knows the ropes plus Kevin has already promised to lend a helping hand in turning it over.

I'm honored to take on the role as your new Chairwoman for 2012. I'm here to serve the chapter and represent you along with the rest of the board so please know we are open to hearing new ideas and suggestions. Bring your ideas forward and extend a helping hand in the process. We look forward to bringing you on a monthly basis interesting, informational lectures providing insight to the pertinent topics of today within the personal care industry. In addition please be sure to mark your calendars as our Scientific Seminar is slated for Oct 4th, 2012 in lovely, Marina Del Ray. More details to come regarding our chapter events.....

Best Wishes,

Debbie Dorsch  
Chairwoman

California Chapter, Society of Cosmetic Chemists

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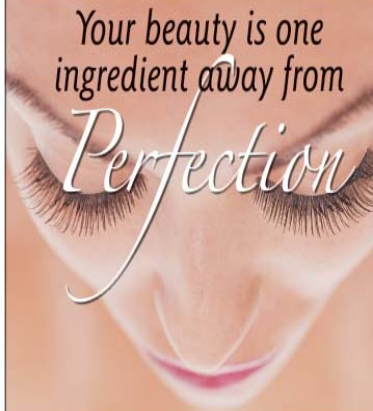
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“Advice to the Lab Lorn” is intended to offer advice, pertinent information or maybe just solace, for confusing, challenging or downright murderous issues facing SCC members in their labs. Send us your questions at [lablorn@caliscc.org](mailto:lablorn@caliscc.org) and we’ll track down an authority or two and get back to you in the next offering of the Lab Lorn. We won’t publish your name for all to see. Your secrets are safe with us.



**Q:** When you see that a natural oil has a high oleic content, what does that mean and how high is high enough?

**A:** I assume that you are referring to the High Oleic (HO) oils most commonly used in personal care products such as HO Sunflower and HO Safflower Oil, so we will proceed with that assumption. Triglyceride oils such as sunflower oil and safflower oil contain a number of fatty acids in their profiles such as oleic acid, linoleic acid, stearic acid and palmitic acid. Generally the levels of stearic and palmitic acids are less predominant and they have relatively high oxidative stability so we will focus on the principal fatty acids of oleic and linoleic acid and their ratios in these oils. Remember that oleic acid is a monounsaturated fatty acid with only one double bond while linoleic acid is a polyunsaturated fatty acid and has two double bonds. The more double bonds a fatty acid possesses, the lower the oxidative stability and as such, an oil with a higher ratio of oleic acid to linoleic acid will have greater oxidative stability.

The fatty acid content of regular (non-HO) safflower oil and sunflower oil is approximately 10-20% oleic acid and 70-75% linoleic acid, hence a very low AOM (Active Oxygen Method) stability and will be easily oxidized and become rancid. The fatty acid content of HO safflower oil is approximately 73% oleic acid and 15% linoleic acid and has a far greater oxidative value and higher AOM. HO sunflower oil generally contains approximately 78-88% oleic acid and 3-10% linoleic acid and has an even greater AOM stability.

So...how high is high enough? I would say if you are looking for a relatively high level of oxidative stability, you should select an oil with the highest level of oleic acid and lowest linoleic acid content. That usually tips the balance in the favor of HO sunflower oil which has at least twice the oxidative stability of HO safflower oil. That being said, HO sunflower oil is more expensive than HO safflower oil and this factor should be taken into consideration as well.

FDA REGISTRATIONS

A Whole New World

Janet Winter Blaschke

International Cosmetics & Regulatory Specialists, LLC (USA)  
REACH Chemical Consulting, Ltd. (UK)



The beginning of a new year signals many common changes- a new diet or a new workout schedule. In US Regulatory affairs, it triggers new and ongoing requirements.

Over-the-Counter Drugs (“OTCs”) and companies are required to be registered with FDA, on an annual basis. This requirement is not as simple as it sounds. There is a recent requirement that these registrations, which used to be submitted by mail, must be electronic. On the surface, that would seem to be good news. However, in the design of the system, there have been many challenges.

The first challenge is that it appears to be modeled to accommodate OTC dosage products, such as cough medicine and analgesics. Our topical drug products, such as sunscreens and acne products, are not dosage-related, and also often have many ingredients that are added for cosmetic effect, which complicates the registrations. Where an analgesic may have only a few, common non-actives, our industry’s topical products may have dozens. Not all of these inactives are recognized by FDA and, though legal, can cause complete rejection of the registration.

Industry has had many problems in accessing and successfully using this new FDA’s electronic system. Among the complications is the FDA electronic Gateway which is used for submissions, that does not run successfully with all types and versions of browsers. Another change is the strict identification of business information: name, address, and identification numbers, such as DUNS and FDA recognized codes.. If anything does not agree precisely, the entire registration is rejected until it meets all of the system requirements.

In case these challenges aren’t enough,, it is difficult to get assistance with even the most basic practical problems with someone who understands the process.

Overseas companies are typically unaware of these requirements, or even if they are aware that the products can be OTCs. We find many times that imported product will not pass through Customs if the registrations are not shown in the FDA system for any reason. The products then receive a Hold Notice or Detention notice from FDA. With a finite time to clear the Hold, these imported products must work their way through the system to avoid having the product rejected and sent back. Given the timing needed for company and product registrations, it is a challenge to have the products released and avoid their deportation. All of these challenges are not new (to our company, or to FDA), they are just magnified with the new system.

Even with dedicated resources, manpower, IT assistance, and patience, it has taken companies, including Fortune 500s, many months to overcome these hurdles.

FDA is no longer accepting paper registrations under any circumstances, so the electronic process is here to stay, and must be addressed every year.

In the end, we consider each successful registration is a well-earned victory.

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**POSITIONS AVAILABLE**

- **COSMETIC CHEMIST (#1111-01)** - Seeking a Cosmetic Chemist for Levlad LLC in Chatsworth, CA. This position is responsible for researching and developing creative products working closely with Marketing and customers from concept to finish. The job entails ensuring that formulas meet expected performance, safety and regulatory requirements so that they can be produced in manufacturing. This position reports directly to the R&D Sr Manager. Requirements: B.S. in chemistry or related science plus 3-5 yrs experience as a R&D formulator with a cosmetic manufacturer. Good knowledge and understanding of cGMP and GLP. To review full job description and submit resume please visit: <http://jobview.monster.com/Cosmetic-Chemist-Job-Chatsworth-CA-US-102451073.aspx>
- **REGULATORY DOCUMENT CONTROL ADMINISTRATOR (#1111-02)** - Cosmetic Manufacturing firm in Commerce, California has an immediate full-time opening for a Regulatory Document Control Administrator. This individual will perform daily administrative duties relating to the Regulatory Department to include: Correspondence. Documentation. Technical reporting. MSDS. Create and maintain spreadsheets. The ideal candidate will have a high school diploma and 1 – 3 years related work experience preferably in a lab or regulatory environment. Must possess strong computer, organization, and mathematical skills. Good attention to detail and problem solving. Must be able to work well on your own. Ability to effectively read, write and understand the English language. MS Office knowledge required. If you would enjoy working in a friendly, casual environment for a growing company, please submit your resume and cover letter to: [jobs@aiibeauty.com](mailto:jobs@aiibeauty.com).
- **PROCESS ENGINEER/R&D CHEMIST (#1111-03)** - Thibiant International is looking for a dynamic Process Engineer/R&D Chemist. Candidate must have a BS degree in Bio Chemistry plus 3+ years of related experience in the cosmetic industry. Duties include providing adjustments and/or recommendations on in-process or production batches; formula process modifications and improvements; supporting line trial and filling issues; incorporating process improvements and providing value-added service(s) to the customer(s); acting as key technical interface between company and its customers; managing and communicating data interpretation and reports and making presentations to the internal team and customers. Thibiant offers a competitive salary and benefits package. Send resume to [nschussman@thibiant.com](mailto:nschussman@thibiant.com).
- **R&D CHEMIST OR SENIOR R&D LAB TECHNICIAN (#1111-04)** - We are looking for a full time entry level R&D Chemist or a Senior R&D Lab Technician, candidate requires at least 2 years experience working on new formulations, optimize cost, time, quality and performance of new and current product. Follow through preliminary stability, ordering ingredients, scale up formulations and other lab work. Ideally we need someone who can take a job all the way from the beginning to supervising the initial production compounding of the finished good. Interested candidates please send resume to [msalas@coswayco.com](mailto:msalas@coswayco.com) or call to 310-900-4160.
- **CHEMIST/FORMULATOR (#1111-05)** - Acne.org, a leading producer of acne treatment products, seeks an independent cosmetic/skincare chemist or formulator with access to a fully stocked laboratory to work directly with the CEO and President in development of existing and new products. Must be within the San Francisco Bay Area and have experience in creating skincare products. Generous remuneration is outcome-based. Email a cover letter and resume to [inventory@acne.org](mailto:inventory@acne.org), stating "Acne.org Formulator" in the subject line.
- **SALES ACCOUNT MANAGER (#1111-06)** - We are looking for an experienced, motivated person to play a key role in expanding our sales efforts in the personal care market. We are a mid-sized specialty chemical company located in San Fernando Valley, California; a distributor for internationally known brands of specialty ingredients serving the personal care industry. The position requires servicing existing customers as well as prospecting and developing new client relationships. The ability to work well with office support staff is important. Required: 5+ years of sales experience in the personal care industry, as well as demonstrated industry participation (SCC, trade shows, etc.). Chemistry or other technical background preferred. Some travel required. Please send resume and all inquires to [jmizialko@chemsil.com](mailto:jmizialko@chemsil.com).
- **QUALITY CONTROL MANAGER (#1111-07)** - Levlad, LLC is seeking a Quality Control Manager responsible for the Analytical and Microbiology Lab areas of our cosmetic OTC drug manufacturing facility. This individual will supervise the activities of the Chemistry and Microbiology Quality Control Laboratories to ensure testing and disposition of product in accordance with product specific quality control procedures and company policies and procedures; assist in the maintenance of company policies and procedures to ensure compliance with regulatory requirements; and operate in accordance with company policies and procedures, USP, and FDA Drug Regulations, where applicable. For more information, email [jobs@levlad.com](mailto:jobs@levlad.com).
- **COSMETIC CHEMIST (#1112-01)** - Rapidly expanding FDA registered medical manufacturing facility is looking for a Cosmetic Chemist. Requirement: B.S. in Bio-Chemistry or related science, plus at least 3-5 years experience in skincare line development; thorough knowledge of common skincare ingredients and international cosmetic regulatory; professional demeanor and strong presentation and communication skills. Responsibilities: Developing new product formulations from concept to finish; ensuring that formulas meet expected performance, safety and regulatory requirements; researching new products and ingredients; conducting scientific studies; writing white papers; developing protocols; leading the R&D process and adhering to timelines; acting as liaison between the company and customers; managing and communicating data interpretation and reports; presenting at industry related events and tradeshows. Email a cover letter and resume to [echang@edgesystemscorp.com](mailto:echang@edgesystemscorp.com) (Subject: "Cosmetic Chemist").

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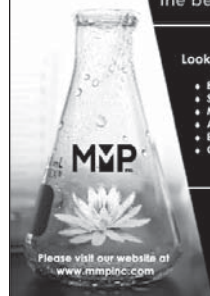
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POSITIONS AVAILABLE

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- **ANALYTICAL CHEMIST (#1112-03)** - Seeking an Analytical Chemist for Levlad LLC in Chatsworth, CA. Responsibilities include analyzing raw material, production, product development, and stability samples using wet chemistry methods and well as instrumental analysis. Proven hands on experience with HPLC, GC, FTIR, UV/VIS instrumentation and USP methods. Minimum of 5 to 7 years of analytical experience in drug actives testing of cosmetic samples. Bachelor of Science in Chemistry or Biochemistry or related scientific field is required. To review full job description and submit resume please visit: <http://jobview.monster.com/Analytical-Chemist-Job-Chatsworth-CA-US-103673744.aspx?fwr=true>.
- **COLOR FORMULATOR (#1112-05)** - My Delight Cosmetics ([www.mydelightonline.com](http://www.mydelightonline.com)) makes natural vegan cosmetics. We have an immediate need for someone to help reformulate our colors for our lip care products. We are looking for someone who will work hands on with iron oxides, micas, etc. to match our old colors and create new colors. Since we make natural cosmetics, all of our products begin with food grade materials and you will be able to work in your home, in your personal lab, or at your current location. We will provide all raw materials. Email cover letter, resume and salary requirements (per hour or per project) to: [mydelight@mydelightonline.com](mailto:mydelight@mydelightonline.com). Applications without salary requirements will not be reviewed.
- **SALES ACCOUNT MANAGER - WEST COAST REGION (#1201-01)** - TRI-K seeks an experienced/ qualified candidate for the position of Sales Account Manager - West Coast Region. Responsibilities include: Develop/ implement account specific sales strategies to meet/exceed budget. Call on Key Accounts to understand their needs. Present/ promote new and alternative ingredients/ technology. Obtain/ evaluate feedback on samples and technologies. Participate in trade shows/sales conferences/sales meetings. Awareness of market trends, new technology, pricing, and customer projects. Requirements include: BS/BA, Chemistry. 5+ years sales experience in the chemical/ personal care industry. Travel with some overnight stays. Please forward resumes to [PeopleEngery@tri-k.com](mailto:PeopleEngery@tri-k.com) indicate "Sales Account Manager - WC" in the subject line.
- **QC LAB TECHNICIAN (1201-01)** - Cosmetic manufacturing firm in San Fernando Valley, CA has an immediate full-time opening for a QC lab technician. This individual will perform daily bulk product and raw material 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 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: [QClabtechla@yahoo.com](mailto:QClabtechla@yahoo.com).
- **PROCESS ENGINEER (#1201-03)** - Seeking a Process Engineer for Levlad LLC in Chatsworth, CA. Responsibilities include developing, reviewing, revising, and maintaining batch sheets and SOPs for all current production process. Directing and supporting all validation activities to include PV and IQ/OQ/PQ equipment qualifications. Minimum 3-5yrs of hands-on process engineering experience in OTC Cosmetics or pharmaceutical industry with direct involvement in validations. In depth knowledge of current Good Manufacturing Practices. To review full job description please visit: <http://jobview.monster.com/Process-Engineer-Job-Chatsworth-CA-104235743.aspx> and submit resumes to [jobs@levlad.com](mailto:jobs@levlad.com).
- **MICROBIOLOGIST (#1201-04)** - Seeking Microbiologist for Levlad in Chatsworth, CA. Responsibilities include assisting the Senior Microbiologist in the testing of raw materials, bulk product, finished product, purified water, sanitization effectiveness, and new product preservative evaluations. Bachelor of Science in Microbiology required and 0-2 yrs experience in a Microbiology Testing Laboratory. To review full job description, visit: <http://jobview.monster.com/Microbiologist-Job-Chatsworth-CA-104383054.aspx?fwr=true> and submit resumes to [jobs@levlad.com](mailto:jobs@levlad.com).
- **COLOR CHEMIST (#1201-05)** - Industry leader in the professional nail care market seeks a color chemist to assist in the reformulation and development of new colors for nail polish. Color chemist must have experience with iron oxides and micas to match current colors and formulate new colors. Responsibilities: Responsible for color shade matching and formulation of new color shades. Issue standards, formulas, and specifications reports. Population of raw material data into Batchmaster. Requirements: College degree in chemistry preferred. Minimum 4 years industry experience in color matching and color cosmetics formulation. Company is located in Gardena, CA. Please submit resume with salary demand to [misspnails@gmail.com](mailto:misspnails@gmail.com).

**POSITIONS AVAILABLE**

- **INSIDE TELE-SALES REP (#1201-06)** – Hugo Naturals in Chatsworth, CA has an immediate full-time opening for an inside sales rep. This individual must have good experience in sales, strong ability to multitask in a fast-paced environment, excellent interpersonal communication skills – particularly over the telephone, strong knowledge of personal care products, and previously used customer relationship management software and tools such as Goldmine. The ideal candidate will have a Bachelor's degree and strong communication skills, both verbal and written, excellent phone skills – you speak with a smile, good internet research skills. English as first language, Spanish fluency is a plus. Please submit your resume to: Anthony@hugonaturals.com.
- **CUSTOMER SERVICE SPECIALIST (#1201-07)** – Hugo Naturals in Chatsworth, CA has an immediate full-time opening for a customer service specialist. You will be expected to interact with various customer types from buyers for natural retail grocers to brokers to consumers throughout the US. To be qualified, the individual must have a strong ability to multitask in a fast-paced environment, excellent interpersonal communication skills, Attention to detail, and knowledge of Microsoft Office applications. The ideal candidate will have a Bachelor's degree, strong verbal and written skills with ability to utilize effective questioning skills to understand customer's needs and requests and transfer those needs to actionable items. Ability to capitalize on opportunities to up-sell company products. Please submit your resume to: Anthony@hugonaturals.com.

**POSITION WANTED**

- **LAB ASSISTANT/INTERN (#1112-04)** - Student looking for chemistry lab technician assistant internship. Laboratory skills: Spectrophotometry, chromatography, calorimetry, PCR, and centrifuge. Preparing chemicals for the lab. Maintaining lab, chemicals, apparatus and equipment effectively and in a ready-to-use manner. Maintaining high standards of cleanliness and hygiene in lab. Efficient data management of lab experiments. Other skills: Excellent analytical and problem solving skills, strong ability to work in teams and groups, strong awareness of security and safety procedures, 60 wpm and 10 key, Microsoft Word/Excel/PowerPoint/Outlook, PC/Mac, strong verbal communicator, organized, highly capable of prioritizing work and multitasking, data entry, fast learner, fluent in Russian. Contact: taturusfg@yahoo.com.

*This monthly listing is a free service to all members of the SCC. To place a technical job listing in the Cosmogram, a maximum of 100 words, please e-mail your job listing to **John Garruto, Employment Chair** at [jjarruto@skinmedica.com](mailto:jjarruto@skinmedica.com) or **Bethany McCarver** at [bmccarver@skinmedica.com](mailto: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 by the 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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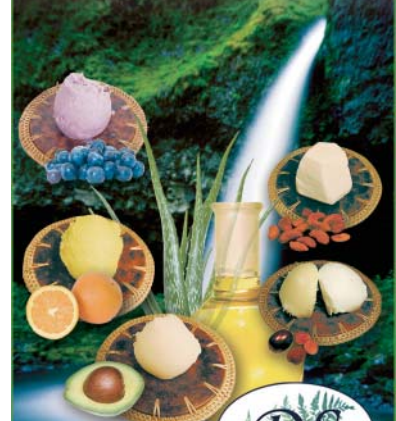
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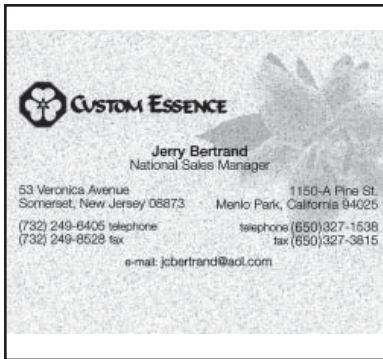
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## Confused Chemistry Confronted by CIR

Doug Schoon



### WHAT'S THE ISSUE?

The Cosmetic Ingredient Review Expert Panel (CIR) was asked by the FDA and several industry associations to consider the safety and determine the recommended maximum allowable limit of formaldehyde and methylene glycol that may be found in cosmetics. Specifically, they were asked to determine if using such substances were appropriate for use in natural nail hardeners and keratin smoothing products. To do so, the CIR also reviewed the erroneous and often conflicting information related to the chemistry of formaldehyde, methylene glycol and other potential formaldehyde releasers.

### WHAT WAS DETERMINED?

The CIR did a very good job addressing much of the misinformation surrounding these issues, but in the process they also created additional confusion.

From the start of this complex review process (Nov, 2010), the CIR boldly corrected long standing chemical misinformation by stating, *"The apparent good solubility of formaldehyde in water is actually the good solubility of methylene glycol in water and the capacity of the solution to accommodate small polymethylene glycols (i.e. two to ten methylene glycol units long). Formaldehyde itself is only sparingly soluble in water. The rate of the hydration reaction is relatively fast (i.e. the half-life of formaldehyde in water is 70 ms) and the equilibrium between methylene glycol and formaldehyde strongly favors methylene glycol, at room temperature."*<sup>1</sup> This statement correctly states the scientific reality that 37% formalin is actually not 37% formaldehyde, but instead 59% methylene glycol in equilibrium with 0.05% formaldehyde and 10-15% methanol, as a stabilizer to prevent polymerization.<sup>2</sup>

In relation to 37% formalin in natural nail hardeners where typically 2% by weight or lower is utilized, the CIR reviewed information presented by the Nail Manufacturers Council (NMC) of the Professional Beauty Association and determined, *"given the rapid reaction on the nail surface and the use of nail hardeners at room temperature, the expert panel did not consider that formaldehyde/methylene glycol [formalin] at 1-2% in nail hardeners would pose a risk of sensory irritation to the eyes and nose or throat of users."* Therefore nail hardeners continue to be considered "safe as used" by the CIR Expert Panel.

The CIR also addressed use of methylene glycol and other potential formaldehyde releasers in hair smoothing products. Independent research studies presented by the Professional Keratin Smoothing Council (PKSC) were in agreement with previously release OSHA salon air monitoring data demonstrated that typical salon exposures to formaldehyde gas are below OSHA safety guidelines. Even so, the CIR expert panel opinions were evenly divided on whether these services could be safely performed in the professional salon setting. After hours of heated debate, it was agreed that exposures in some salons were sufficient to cause sensory irritation and this raised concerns that proper ventilation and safety procedures were not uniformly followed nor have adequate steps been taken by manufacturers to ensure that these products are safe for use in hair salons.

The panel placed the burden on manufacturers to show how sensory irritation could be prevented or controlled and until such a time, the CIR concluded that hair smoothing products containing methylene glycol or other potential formaldehyde releasers are unsafe. The CIR suggested reducing the methylene glycol or other formaldehyde releaser concentration in hair smoothing products, controlling the amount of product applied, reduction of temperatures used during treatments, and the use of adequate ventilation should be considered by manufacturers to address the reports of adverse reactions related to sensory irritation.

### WHAT WAS CONCLUDED?

The CIR adopted a suggestion to include limits for formalin concentration, rather than formaldehyde or methylene glycol since formulators actually use 37% formalin in cosmetic products. They concluded that, other than nail hardeners, cosmetics should not contain more than 0.2% (w/w) of 37% formalin. Unfortunately, they erred in their calculations claiming that this amount of formalin contains 0.118% methylene glycol and 0.74% formaldehyde. When properly calculated, the actual amount of formaldehyde is 0.000093% or 0.93 ppm.<sup>3</sup> The NMC has submitted a request to the CIR to correct this calculation error.

(continued on page 27)

