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October 2015

Volume 45 | Issue 7

Passion FOR Beauty

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Beauty Develop

October 14 - 15th, 2015

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#SCCSD2015



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California SCC
Suppliers' Day
October 14 - 15, 2015

Show Hours:

Wednesday
9:00 - 5:00 pm
Thursday
9:00 - 3:00 pm

Keynote Speakers:

John Warner -
Green Chemistry & Creativite Keys to Idea
Generation.

Tom Sturges- Every Idea is a Good Idea
Creative Keys to Productivity

- Show Admission is FREE
- Pre Register by October 1st to Qualify for Door Prizes

Registration Open

Visit www.caliscc.org for Exhibitor & Attendee Details

Inside this issue:

Calendar...2 Message from the Chair...5 Job Opportunities...11 Supplier's Day 'Omics Seminar Program'...19

Green Chemistry and Creativity Keys to Idea Generation Keynote Topics at Supplier's Day

This year's Supplier's Day features two exemplary speakers discussing topics very much in the limelight.

Green Chemistry - Helping Create a Safer, More Sustainable Future



John Warner, a founder of green chemistry who literally co-wrote the book on the topic (*Green Chemistry: Theory and Practice*), starts the first day by discussing the basic tenets of green chemistry, which seek to reduce or eliminate the use of hazardous materials while still being economically competitive and successful in the marketplace. Warner chaired the *Science Advisory Committee of California's Green Chemistry Initiative* in 2008 that led to the landmark Green Chemistry Initiative seeking to eliminate or reduce the use of toxic substances in products and manufacturing processes in our state.

John is the recipient of the 2014 Perkin Medal, widely acknowledged as the highest honor in American Industrial Chemistry. He received his BS in Chemistry from UMASS Boston, and his PhD in Chemistry from Princeton University. After working at the Polaroid Corporation for nearly a decade, he served as tenured full professor at UMASS Boston and Lowell (Chemistry and Plastics Engineering).

In 2007 he founded the Warner Babcock Institute for Green Chemistry, LLC (a research organization developing green chemistry technologies) where he serves as President and Chief Technology Officer, and Beyond Benign (a non-profit dedicated to sustainability and green chemistry education). He is one of the founders of the field of Green Chemistry, co-authoring the defining text *Green Chemistry: Theory and Practice* in 1998 with Paul Anastas. He has published over 200 patents, papers and books. His recent work in the fields of pharmaceuticals, personal care products, solar energy and construction and paving materials are examples of how green chemistry principles can be immediately incorporated into commercially relevant applications.

Warner received The 2004 Presidential Award for Excellence in Science Mentoring, the American Institute of Chemistry's Northeast Division's Distinguished Chemist of the Year for 2002 and the Council of Science Society President's 2008 Leadership award. Warner was named by ICIS as one of the most influential people impacting the global chemical industries.

Society of Cosmetic Chemists - California Chapter

2015 Calendar of Events

September

22 California Chapter Monthly Meeting *Manhattan Beach Marriot*

October

13 The 'Omics' Opportunity in Skin Care *Long Beach Convention Center, Long Beach*

14-15 CA SCC Supplier's Day *Long Beach Convention Center, Long Beach*

24 Muck Fest for Multiple Sclerosis Society *Prado Park, Chino*

November

17 California Chapter Monthly Meeting *Manhattan Beach Marriot*
FREE MEETING FOR MEMBERS

December

10-11 70th Annual Scientific Meeting and Technology Showcase *New York City, NY*

In 2011 he was elected a Fellow of the American Chemical Society and named one of "25 Visionaries Changing the World" by *Utne Reader*. In 2012, John received SCC's Henry Maso Award for his keynote lecture at National's Annual Scientific Seminar in Charleston.

For a change of pace, we'll start Thursday with

**Every Idea is a Good Idea:
Creative Keys to Productivity**

(Penguin/Tarcher)



Tom Sturges, author of the book by the same name and a senior executive in the music industry for over 25 years, will take us through a highly interactive workshop designed to maximize your creativity. By learning elements of the creative process of Beethoven and Dr. Dre, you'll:

- Learn to tap into your natural reservoir of creativity
- Obtain takeaway exercises to facilitate successful brainstorming
- Acquire tools and strategies to increase productivity and motivate colleagues
- Expand your leadership capabilities
- Develop life-long resources for nurturing creativity in everything you do

During Tom's time in the music industry, he served as president of Chrysalis Music, EVP and Head of Creative for Universal Music publishing, and VP/GM of Shaquille O'Neal's imprint TWiSM Records. Over the years, Tom worked with Carole King, Gerry Goffin, Aretha Franklin, Cher, Mariah Carey, Celine Dion, George Michael and Whitney Houston and signed some of the biggest names in the business, including Smashing Pumpkins, 50 Cent & G Unit, Foo Fighters, Outkast & Goodie Mob, Jack Johnson, 3 Doors Down, Stone Temple Pilots and Chris Brown. Selling a combined 175M albums, 26M singles and 18M downloads, the writers and artists signed by Tom have written fourteen #1 singles and have received 12 Grammy awards.

These days, Tom teaches creativity in schools around the LA area, including UCLA and local high schools in the inner city. He has spoken at USC, Princeton, NYU, the Aspen Ideas Festival and has been featured in *The Huffington Post*, *Fast Company*, *The New York Times*, *People*, *The Atlantic* and on *CNN* and the *Today Show*.



In October 2016, the Society of Cosmetic Chemists will host the 29th Congress of the International Federation of Societies of Cosmetic Chemists.

This prestigious event will be held October 23-26, 2016 at the Walt Disney World Resort's Dolphin Hotel in Lake Buena Vista, Florida.

Cosmetic Scientists presently representing the 47 Member Societies comprising the IFSCC will gather to discuss and advance the science and technology of our industry.

The theme for the Congress is "Beyond Dreams into New Frontiers: Inspire, Imagine, Innovate". The 29th IFSCC Congress will provide the US industry an opportunity to exchange scientific knowledge on a global basis.

For more information, please visit www.sconline.org



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It's Here, It's Here!

Angie Inouye

Charkit Chemical Corporation

Our long awaited biennial Suppliers Day trade show is here. This two day tradeshow grows every event and this year has 22 countries participating.

This month we also have 2016 Board Member ELECTRONIC elections. Look for the email and VOTE!

As you all know, the Society of Cosmetic chemists is dedicated to the advancement of cosmetic science. The Society strives to increase and disseminate scientific information through meetings, so we have added a day of education on Epigenomics.

This full day workshop at the Long Beach Convention Center on Tuesday the 13th is aimed to bring experts in the field to present this research in a simple, practical manner and relate it to skin care product development. The complete seminar details can be found online at www.caliscc.org

SCC has partnered with Beauty Industry West (BIW), and their monthly luncheon will be held in conjunction with this event including a regulatory panel during lunch.

There is still time to register for the full day event or just for the BIW luncheon Regulatory Panel. Visit our website at www.caliscc.org to register.

The show dates will include Keynote speakers to open up the show at 9:00 am on each day. The Raffles will be held during the Keynote speaker, so make sure to grab your raffle ticket when you walk in the door.



Wednesday:

John Warner- Green Chemistry & Creativity Keys to Idea Generation.

Thursday:

Tom Sturges - Every Idea is a Good Idea: Creative Keys to Productivity (Penguin / Tarcher).

Visit www.caliscc.org to register for the event.

FREE To attend when you Pre Register!

Please mark your calendars. There will not be a monthly dinner speaker this month and our November meeting will be a week early on Tuesday the 17th.

I'll see you in Long Beach.

Best,

Angie Inouye
2015 Chair, California Chapter
Society of Cosmetic Chemists

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ROAD TRIP WITH VALERIE PATTON

John Luna

Deveraux Specialties

For the October edition of the Historian's column, I thought I would do something different! I wanted to conduct one of my interviews from my SCC loaner car, the 1984 Yugo that I have grown so fond of. Of course I will be recording the interview so I never take my eyes off the road.

I am sure some of you already know Valerie Patton, a bright energetic young chemist at John Paul Mitchell Systems and now in a few months, the Chair of the SCC. So let's get up close and personal with Valerie Patton.

John Luna: Hello Valerie, hop in!

Valerie Patton: (ten second stare at the car) what is this?

JL: I'm sorry? What is what?

VP: This, this thing you are driving?

JL: Well it's a restored Yugo! Yes it is a bit small but gets 56 miles per gallon! The SCC owns it and lends it to me so I can visit the people I write about.

VP: Are you sure it's safe? What happened to the radio, it looks burnt?

JL: Oh that was damaged during an electrical fire, but it still works believe it or not!!

VP: The seats are torn and there are no seat belts?

JL: Again that's a funny story, I don't really have seat belts but I have actually attached one of my belts to the seat. Here it is, just snap it in.

VP: Oh that's just wrong!!!! I'm fine, let's just get on with it!

JL: I'm just going to be driving around the block since the car doesn't really go above 15 mph is that ok?

VP: Actually I'm feeling better that we are not going far.

JL: So you call yourself a military brat?

VP: Yes my father was in the Air Force so we traveled around quite a bit. We have lived in Saudi Arabia, Yemen, the Philippines, and Moscow.

JL: We don't have a military base in Moscow.

VP: Sorry I made that up, I guess you are paying attention.

JL: So did you ever settle down in one place?

VP: Yes in beautiful Kent, Ohio. When I was a teenager, we settled there on a large farm where we grew our own vegetables and we even had several cows.



JL: Well now I have to ask, did you ever go cow tipping?

VP: Do I look like I go cow tipping?

JL: Uh no but I thought I would ask. I've always wanted to do that.

VP: This is a really long car ride.

JL: We've only gone two blocks!

VP: Can't this car go any faster?

JL: Oh yes, I am only going 11 mph, I can go 4 mph faster!!!! You know there used to be an SCC copter but I had a bad landing at Karen Chun's house. She said she had a helipad but she lied.

VP: Karen does not lie, she is the sweetest woman on earth.

JL: Normally she doesn't but she lies to me!

VP: I can see why. Wow that lady with the stroller just past us.

JL: You will get used to it.

JL: Getting back to your story, your family settled down in Kent, Ohio on a beautiful farm with cows. Where did you attend school?

VP: I graduated from Kent State University with a science degree in Biochemistry, I then went on to the University of Marshall for my graduate studies.

JL: OH so you are part of the Thundering Herd?

VP: What? Are you insulting me???

JL: Oh no I just meant....

VP: I know I'm just messin with you. Yes that is their name, the Thundering Herd! Good football team.

JL: What was your specialty? Organic chemistry?

VP: No, Aptamer Chemistry!

JL: Ah! My second guess, sure!! Aptamers are single stranded DNA or RNA molecules that can bind to pre- selected targets such as proteins and peptides with high affinity.

VP: Yes that is correct, it is a very specialized field.

JL: So then you made the move out west and got a job at JMPS?

(cont'd on page 34)



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- **CLINICAL STUDY PROPOSAL MANAGER (#1507-01).** Biometrix Research & Testing, a growing West Coast dermatology CRO is seeking a Clinical Study Proposal Manager. Must have strong experience and a working knowledge of clinical study protocol, pricing and quote development expertise. Also, a strong history of putting together client proposals and timely client follow up to assure well designed studies are selected and executed by our research team as a result. Looking for a smart jack-of-all-trades coordinator who can translate general study requests from clients and put together protocols and quote proposals that are science-based and price competitive. Knowledge of current industry pricing a must. Relocation required. Indicate your interest in this position by sending an email stating why you believe you are the best candidate for this position and attach a resume to Mark, Hiring Manager at Markatgarfield@aol.com
- **PRINCIPAL SCIENTIST (#1507-02).** Johnson & Johnson Consumer is recruiting for a Principal Scientist located in Singapore. Responsible for developing new innovative formulations for skin care utilizing technically challenging and proprietary technologies in novel applications and general cosmetic & OTC formulations such as emulsions and cleansers. To lead and perform testing to assess bio-delivery in finished chassis formulations, aesthetic performance and efficacy of the formulations, use experimental design techniques, surfactant colloid chemistry science fundamentals to develop formulations and use advanced instrumental characterization techniques. A min. of BS degree in Chemistry, Chemical Engineering or related science is required with 10 years experience in surfactant, polymer materials, formulations and their application in developing innovative skin care and cleansing formulations is required. Kindly send resume indicating salary requirements to mcheo@its.jnj.com
- **LAB TECHNICIAN (#1507-03).** Formula Corp located in Auburn, WA and a manufacturer of industrial cleaners and cosmetic products is seeking a Lab Technician with a Science Degree. The successful candidate should have at least one year experience working in Pharmaceutical/Cosmetic Industry and has knowledge of c-GMP and GLP. Compensation: Salary Range \$15-\$20 per hour, Medical benefits, 401 (k) Qualified Retirement Plan and other benefits are available after a qualified period. Send resume to hr2@formulacorp.com.
- **TECHNICAL MARKETING ASSOCIATE (#1507-04).** Our Technical Marketing Team is looking for the perfect fit to enhance our skilled and diverse company. Technical marketing is a method of marketing in which the science and technology behind products is the main focus of product promotion. This job requires a candidate that can think and identify market needs through research and conceptualization. The Technical Marketing Associate must be able to utilize their science background to appeal to customers' need for technical explanations of our products, as well as to collaborate with the Research & Development team on design, development and implementation of new products. Send resumes to ghawn@activeconceptsllc.com
- **MICROBIOLOGIST (1507-06).** Merle Norman Cosmetics seeks a seasoned Microbiologist to perform microbiological lab testing and evaluate test results; provide accurate and efficient document control and data management; perform other tasks as assigned to meet company goals. Position is based out of our Corporate Headquarters located near the L.A.X. Airport and will require reporting in to this location on a daily basis. BS Microbiology (or related 4 year degree), 4+ years experience working in a microbiology lab in the cosmetic, pharmaceutical or food industry. Experience in cGMP work environment is an advantage. Ability to prioritize and manage own workload. Send resume to mncresume3@merlenorman.com
- **DEVELOPMENT SCIENTIST (#1507-07).** Assist with technical aspects of formulation development and maintenance. Work in a team environment and make contributions that move products through stages of product development. Perform other duties as required. To view the entire job description and to apply for the position, please visit: <https://www.nuskin.com/postingviewer/jobview.jsp?jobPostId=2780&templateType=3>
- **DIRECTOR, R&D (CORE AND OUTER NUTRITION) (#1507-08).** The Director, R&D manages the R&D staff within the food/supplement and personal care product functional areas. This role will oversee the product research and development activities for approved business initiatives in a cross-functional and collaborative manner as well as oversee the approval of product formulations and manufacturing processes that meet cost, quality and acceptability targets. The Director, R&D is responsible for on-time product launches and uses established metrics to track key development activities, budgets and resource requirements to ensure this occurs. Requires 10-12 years of experience in Product Development, with demonstrated product results from previous work experience (Skin/Hair care, pharma, food, supplements), demonstrated and successful leadership experience managing a team and a Bachelor Degree in Chemistry, Nutritional Sciences, Food Science or related field. Please send resumes to betinad@herbalife.com
- **JUNIOR COLOR CHEMIST (#1507-09).** CG USA currently has an opening for a Junior Color Chemist in our R&D laboratory. Please submit your resume for consideration to amezgova@cosmeticgroupusa.com

(cont'd on page 12)

POSITIONS AVAILABLE

- **LABORATORY MANAGER (#1507-11).** Smith & Vandiver, located in Watsonville, CA is seeking a full-time, permanent Laboratory Manager to plan and supervise the daily operation of the R&D lab. This includes managing lab inventory and PDR sample retention; creating product approval documentation as well as govt and private client requested technical documents; compiling INCI list of ingredients for new products; creating new formulations for product development requests as well as observing/testing new product stability. Experience with Scale Up a plus. A BS degree in science and a minimum of one year experience in lab management required. Send resumes to donna@s-vcorp.com.
- **R&D CHEMIST (#1508-01).** Position Summary: Complete projects assigned by R&D Manager. Prepare lab batches to complete workflow. Perform varied multi-task formulation, testing, and development of products for various clients. Prepare paperwork for submission. Knowledge of rules and regulations (FDA, CTFA, PCPC) for global formulation. Request new raw material samples. Test and release new raw material samples. Bachelor of Science (BS) degree in Chemistry, Biochemistry, or related science field. Previous experience Skincare manufacture industry is a PLUS. Send resume to hr@neutraderm.com.
- **SENIOR CHEMIST (#1508-02).** A fast growing company located in Newbury Park is seeking a full-time R&D Senior Chemist that will be responsible for developing from concept to an approved scaled-up formula of a variety of cosmetic and an OTC drug products, as well as reverse engineering of existing products. Essential Duties and Responsibilities include: Make daily batches assigned by management. Prepare paperwork for submission. Prepare and document in writing, specifications for various batches. Perform and monitor stability testing on R&D batches. Oversee/supervise pilot and first three production batches throughout the manufacturing process. Qualifications include, but not limited to: Knowledge of rules and regulations (GLP, FDA, CTFA, PCPC), etc... Bachelor of Science degree in Chemistry, Biochemistry, Engineering or related science field and 5+ years product development. Possess strong attention to details. Send resume to: irina@cosmetictchnologies.com.
- **LABORATORY MANAGER (#1508-03).** Fast growing company located in Newbury Park is seeking a full-time Laboratory Manager to supervise the daily operation of the R&D lab. This includes managing day to day communication with other departments, working with product's related documentation, lab inventory, maintaining product files, supervising new product stability testing. Perform other duties as required. A minimum of BS degree in science required with 3 years+ product development experience. Send resume to: irina@cosmetictchnologies.com.
- **R&D MANAGER (#1508-05).** Rodan + Fields, LLC, a growing skincare company in San Francisco, is seeking a R&D Manager to manage operations at the R+F incubator laboratory to support the development of OTC and non-OTC skincare products. Ideal candidates will have a solid working knowledge of raw ingredients and formulation of personal care products, a passion to explore and innovate with new raw materials, processing techniques and/or formulations in creative approaches while leveraging current consumer insights and needs. Must work well with minimum supervision. BA/BS in chemistry, chemical engineering or equivalent science. 4-7 years of product development experience. Please submit resumes to jclausen@rodanandfields.com.
- **COMPOUNDER (#1508-06).** Kingman Industries has a Compounder position available. Minimum 4 years experience required manufacturing creams, lotions, liquids, powders, etc. Must be able to adjust batches, as needed per specs for example color, pH & viscosity. Familiar with Warehouse equipment such as forklifts and drum dollies, including compounding equipment such as scales, mixers, homogenizers, pumps, filters, etc. Must be able to lift heavy containers as well as speak, read and write in English. Send resume to kmjoy1977@gmail.com.
- **PURCHASING CLERK (#1508-07).** Chatsworth, CA-Neutraderm is currently seeking an experienced Purchasing Clerk to be responsible for sourcing and purchasing chemical raw materials, packaging components, and production supplies. Familiarity with cosmetic and personal care ingredients and vendors is a big plus. Other duties include preparing product costings, monitoring inventory levels, meeting with vendors, and working closely with Production and Sales to meet customer deadlines. Must be able to work independently, yet be an integral part of the team. Please forward resumes to hr@neutraderm.com.
- **ACCOUNT EXECUTIVE (#1508-08).** This is a full-time, in-house sales position located at our Chatsworth, CA headquarters. Experience in cosmetics, personal care, and/or fine chemical industry is a plus. Please send resume to hr@neutraderm.com
- **QUALITY ASSURANCE INSPECTOR (#1508-09).** The Quality Assurance Inspector is responsible for a wide variety of duties related to Quality Assurance in a manner that meets and exceeds customer, regulatory and company guidelines. The QAI completes the quality control inspections within the production department. This includes routine checks of incoming materials, routine checks on current inventory, monitor and document all QC related production activities according to established SOP's and GMP's. Please forward resumes to hr@neutraderm.com.

(cont'd on page 13)

POSITIONS AVAILABLE

- **JUNIOR CHEMIST (#1508-10).** A growth oriented company has an immediate opening for a junior chemist. Ideal candidate will have a minimum of 1 year experience in personal care products. The candidate should be knowledgeable of GLP, cGMP and OSHA requirements, must be a team player and must be flexible in order to accommodate production requirements. Please email your resume to Laura@developlus.com.
- **COMPOUNDER (#1508-11).** A fast growing company has an opening for a compounder with a minimum of 2 years' experience in personal care products. The candidate should be knowledgeable of cGMP and OSHA requirements, must be a team player and must be have flexibility in order to accommodate production requirements. Please email your resume to laura@developlus.com.
- **REGULATORY AFFAIRS COORDINATOR (#1509-01).** Westlake Village, CA - Jafra Cosmetics International, Inc., a large international direct-sales cosmetic marketer, distributor and manufacturer has a position open in Regulatory Affairs. Candidates must have a Bachelor of Science degree in Chemistry or related field. Experience in the cosmetic industry, especially in a laboratory, compliance or regulatory affairs, experience with Sharepoint and SAP and experience with FDA and/or EU regulations are preferred. We offer a competitive salary and benefits package. Please send resume and salary history to mitch_willeford@jafra.com.
- **RAW MATERIALS & COMPONENTS BUYER (#1509-02).** Robinson Pharma Inc. is the leading contract manufacturer of nutritional supplements, pharmaceuticals and personal care products located in Costa Mesa, CA. Essential Duties & Responsibilities: Procuring raw materials and components in a timely manner to ensure delivery prior to scheduled production date, with emphasis on meeting target price, quality, quantity, availability, and delivery dates. Other purchasing duties will be assigned. Minimum of 5 years relevant experience in procurement of cosmetic and personal care raw materials and components. Excellent written and verbal communication skills, as well as strong organizational skills. Interested candidates, please submit your resumes to recruiting@robinsonpharma.com.
- **PRINCIPAL SCIENTIST (#1509-03).** Natural Products group seeks a Principal Scientist to drive OTC skin care innovation by translating market insights and consumer needs into viable prototypes; Identify new technologies, evaluate technical data and propose new benefit platforms ; Present innovation and technological advancement in premium skin care, specifically in the natural anti-aging arena; Study actives and their function as well as their sourcing and manufacturing for purity and safety; Apply understanding of skin physiology and ingredient chemistry to formulate to maximum purity and efficacy; Formulate complex emulsions from concept to finish while following brand values. Interested candidates can email awilson@arbonne.com directly.
- **LABORATORY TECHNICIAN (#1509-04).** Chatsworth Based Formulation/Product R&D laboratory is looking for a Lab Tech with 1-2 years bench experience in the cosmetics and personal care field. Candidates will assist in developing formulations, new product applications, and assessment of stability technology used in a variety of personal care applications. Ideal candidate will have a minimum of 1 year experience in personal care products on the bench. MUST be a team player, have excellent decision making and problem solving skills, the ability to interpret experimental results, be neat, organized, detail oriented, have the ability to adapt to changes at a minutes' notice. Salary negotiable DOE. employment@aboverinaldilabs.com.
- **REGULATORY & QC MANAGER (#1509-05).** Juice Beauty is seeking a highly motivated individual to join our Team as Regulatory & QC Manager. Primary focus will be to work within the Product Development & Operations team to ensure product safety, compliance, and performance. This position works closely with Senior Management and will be involved with high profile brand & product launches. Qualifications: 3 – 5 Years in the beauty industry, quality control, and/or regulatory. Experience working with celebrity partners preferred. Strong attention to detail & project management skills. Thorough understanding of personal care product regulations & the natural products market, both domestic & international (FDA, EU regulations, etc.) Strong communication skills with a professional manner. Handle an ever-changing fast paced work environment. Ability to prioritize and manage multiple projects at one time with a strong attention to detail. Computer and MS Office proficiency. Please submit cover letter & resume to Amy: Aryan@juicebeauty.com.
- **JR CHEMIST (#1509-05).** Chatsworth Based Formulation/Product R&D laboratory is looking for a Jr Chemist with 1-2 years bench experience in the cosmetics and personal care field. Candidates will assist in developing formulations, new product applications, and assessment of stability technology used in a variety of personal care applications. Candidates must possess a Bachelor's degree in chemistry or related field AND knowledge of personal care formulations through product development experience on the bench. MUST be a team player, have excellent decision making and problem solving skills, the ability to interpret experimental results, be neat, organized, detail oriented, have the ability to adapt to changes at a minutes' notice. Salary negotiable DOE. employment@aboverinaldilabs.com.

(cont'd on page 14)

POSITIONS AVAILABLE

ACCOUNT EXECUTIVE - WESTERN REGION (#1510-01). BARNET PRODUCTS CORP, a leading supplier of specialty chemical ingredients to the Cosmetic and Personal Care industry, has a position available for an Account Executive as part of our Western Region Sales Team. Responsibilities include building relationships and making sales visits to research chemists and purchasing agents, having an in-depth knowledge of our product lines, maintaining sales tools and meeting notes, and working with our internal departments (such as marketing, samples department and the lab) to best serve the needs of our customers. We are looking for a hard-working, motivated individual who has the ability to focus and achieve yearly objectives and long term goals. Accounts will be on the West Coast with some travel required. Please note: this position is based out of an individual's home office. Candidates need to be able to work remotely with other members of the West Coast team and our corporate office on the East Coast. Qualified candidates should have a college degree (with a focus in Biology, Biochemistry, Chemical Engineering or cosmetic marketing a plus), superb communication skills, and five or more years sales experience or relevant experience in the Cosmetic or Chemical Industries,. We offer excellent benefits including full medical and 401K. To apply, please email your resume to Mcarrillo@barnetproducts.com.

STABILITY TECHNICIAN (#1510-02). The Stability Technician will be responsible for managing stability testing for new product development to ensure formulas adhere to prescribed specification. They must evaluate and communicate results, ensure the quality of data generated, and adhere to procedures and practices. This role will collaborate with formulators and Formulation Manager to ensure inventory of raw materials are replenished and maintained appropriately. Qualifications include, but not limited to: AA/BS degree in Science preferred, 2-5 years of experience in personal care manufacturing, knowledge of cGMP and cGDP, proficiency in MS Word, Excel. Location: Chatsworth, CA. Please send resumes to smoyer@arbonne.com.

GENERAL MANAGER (#1510-03). Small cosmetic Manufacturer (30 employees) seeks General or Operations Manager who can work independently, and effectively leverage human and equipment resources to maximize efficiency, reduce errors, and oversee all aspects of the company. Work with VP and President to expand sales and grow the company. Needs industry experience and chemistry experience a plus.....Salary + Bonus. Please email resume to LM@icpl.com.

R&D CHEMIST (#1510-04). R&D Chemist Healthspecialty Labs , a personal care manufacturer in Santa Fe Springs CA, is looking for a R&D Chemist to assist with formulations of personal care products of Lotions, cleansers, gels, SPF, color cosmetics etc. OTC experience preferred. The position will be responsible for bench formulations, generating ingredient lists and product marketing briefs for the formulas they develop, regulatory review of ingredients, troubleshooting batches, and scale up. The ideal candidate will have a BS in chemistry, or equivalent, and 1 to 3 years of experience in cosmetic formulating. Please email resume and salary requirements to neil@healthspecialty.com .

SR. ACCOUNT MANAGER - CALIFORNIA (#1510-05). Lucas Meyer Cosmetics is looking for a Sr. Account Manager based in Southern California, to cover the West Coast, except greater LA, Ventura Counties. Responsibilities are to grow sales on West Coast (CA, Rocky Mountains), manage existing accounts, develop new accounts, perform against sales targets and make technical presentations to R&D and Product Development teams of cosmetic brands. Requirements include 10 years' experience in cosmetic industry, experience in sales of ingredients or finished cosmetics, networking with cosmetic brands, technical knowledge of cosmetic product development or cosmetic ingredients. Must have excellent communication skills, ability to travel and be self-motivated and organized. Contact: sylvain.maur@lucasmeyercosmetics.com.

LAB TECHNICIAN (#1510-06). Healthspecialty, Santa Fe Springs contract manufacturer looking for a Lab Tech with 1-2 years bench experience in the cosmetics and personal care field. Candidates will assist in developing formulations, new product applications, and assessment of stability technology used in a variety of personal care applications. Ideal candidate will have a minimum of 1 year experience in personal care products on the bench. Please send salary expectations and resume to Neil@healthspecialty.com .

Q.C. ASSOCIATE (#1510-07). Innovacyn (Rialto, CA) is seeking a QC chemist with 1-3 years of lab experience in pharmaceutical, device, or cosmetic industry. Ideal candidate would have a college degree in chemistry related field. Experience with instrumentation (e.g. viscosity, pH, TOC, UV/Vis, HPLC) and wet chemistry (e.g. titrations) is highly desired. Experience in microbiology is also a plus. This position will assist in the generation and review of quality records related to production. Strong organization and time management skills are essential. Microsoft literate is a must. Please email resume and salary expectation to lamarn@innovacyn.com.

(cont'd on page 15)

Job Opportunities

POSITIONS WANTED

- **ENTRY LEVEL CHEMIST (#1508-04).** An efficient and eager learner who has a Bachelor's of Science degree in Chemistry is looking for an entry level chemist position in the San Diego County region. A dedicated individual worker and team player who wants all to succeed. Please contact Katrina Vuong at katrinalvuong@gmail.com or (858) 231-3549 for questions or résumé.

*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, johngarruto@hotmail.com**. Please limit to technical positions only. When the position is filled, please notify John Garruto to have the listing deleted. If he does 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.*

New Member Spotlight

Hello CA SCC Members!

Each month, our Chapter grows with members joining from all over California. This month's New Member Spotlight is Xochitl (pronounced Socheel) Medina. Xochitl is the VP of Business Development at Arganizm (an Argan Oil supplier) and Co-Founder of the Hollywood Chapter for the Women Like Us Foundation. Let's get to know Xochitl a bit better:

Where were you born?

I was born in Watsonville, CA.

As a child, what did you want to be when you grew up?

As a child I wanted to be a lawyer conducting business all over the world. I never got to law school however, I did get to travel and conduct business all over the world. I love what I do!

On the weekend, you will most likely be found...?

On the weekends, I'm usually found watching football, gardening, hanging with family or working on new projects.

What/where was your last vacation?

The last vacation I took was to the Dominican Republic with the Women Like Us Foundation in July to help build homes for the homeless. This was one of the most amazing trips I've ever gone on.

What are you most proud of?

It was extremely satisfying to give my time and build a home for someone in need. It's hard to put into words how fulfilling my DR trip was but I'm most proud and grateful for this experience.

Thank you, Xochitl for joining the CA Chapter! We are happy to have you!

RENEW YOUR MEMBERSHIP for a chance to win \$100! Everyone who renews their membership by Supplier's Day (October 14th), will automatically be entered into a drawing for a \$100 gift card! Members get discounted meeting prices and a FREE meeting annually!

We compete on a National Level with the other SCC Chapters so don't let our CA Chapter place last; **RENEW TODAY!!!**



CAROLINA SOCIETY OF COSMETIC CHEMISTS
Call for Papers
2016 Naturally Kiawah Symposium

April 21, 2016
Kiawah Island Golf Resort
Kiawah Island, South Carolina

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 Natural and Green Science will be considered for presentation. Topics of particular interest for submission of the abstracts are:

- How Are Advances in Science Effecting the Development of New Natural /Green Raw Materials and Products
- Eco Friendly Manufacturing (carbon footprints, alternate forms of energy, waste management techniques)
- Effect of Natural/Green Products on Skin Biology
- Fair Trade Opportunities in Personal Care
- Preservation and Stabilization of Natural Products
- Marketing and Consumer Trends
- Regulatory Updates
- Sustainable Sourcing and Manufacturing
- Novel Delivery Systems for Natural Products
- Green/Natural Packaging

DEADLINE: November 1, 2015

Abstracts should be submitted on a separate sheet along with this flyer or Abstract Cover Sheet and send via e-mail to catherinewalker@xytrus.com or mail to: Catherine Walker, Xytrus, 9200 Stockport Place, Charlotte NC 28273. All Abstracts will be reviewed and selected by the CCSCC Education Committee no later than December 15th. **After acceptance of abstracts by the Committee, all presenters will be required to submit an electronic copy of their full presentation 4 weeks prior to event date. Final presentations will be due no later than March 21th 2016. No changes in presentations will be acceptable one week prior or on the day of the presentations.**

Cover Sheet Information:

Presenter's Name:

Title: (Prof., Dr., Mr., Mrs., Ms.)

Author(s):

Company Name:

Telephone #:

Fax #:

E-Mail Address:

Abstract Title:

Abstracts should be single spaced and typed on a separate sheet (150-200 words). Complete generic names as well the INCI nomenclature are requested for all ingredients. Abstracts should be informative, containing:

1. a sentence statement of the study's specific objective
2. brief statement of methods, if pertinent
3. summary of results obtained
4. statement of conclusions

Equipment requirement for presentation:

____ LCD Projector for PowerPoint

A SAFFLOWER BY ANY OTHER NAME

Emulsifier or delivery system, the versatile safflower delivers results for cosmetic chemists

Shuanghui Liu

Lead Scientist, Botaneco

Safflower, one of the oldest crops known to humanity, can trace its history to 12th century Egyptian textiles and even in the garlands in the tomb of King Tut. With 800 years to test its capabilities, it is no wonder that Safflower (*Carthamus tinctorius*) oleosomes serve many functions in today's cosmetic formulations.

The key to safflower's flexibility to formulators is the characteristics of its oleosomes. Oleosomes are micron-sized spheres of emollient plant oils and vitamin E, surrounded by a phospholipid membrane with a protein coat. Here, we highlight two of the most common uses of safflower oleosomes currently deployed in personal care and cosmetic products.

EMULSIFICATION

As a result of their unique structure and oleosin protein coat, oleosomes function as broad Hydrophile Lipophile Balance (HLB) natural emulsifiers and can be used to prepare virtually any type of personal care emulsion. Their operational HLB typically ranges from 5–15, with an optimum range of 8–13. The most powerful grade, obtained from safflower seeds, is capable of emulsifying at a ratio of 1:3, allowing formulators to make emulsions using a 5 percent oleosome ingredient for a total oil phase of 20 percent, with no synthetic non-ionic emulsifiers. Furthermore, they have been shown to exhibit transient emulsification. This unique attribute results in formulations that are exceptionally mild on the skin — a stark contrast with low molecular weight synthetic non-ionic emulsifiers, which can penetrate the skin and cause transepidermal water loss.

These outstanding emulsification benefits can be leveraged in moisturizers, cleansers and even mineral sunscreens, where oleosomes aid the dispersion of pigment to reduce whitening on the skin, in addition to providing an intrinsic water-resistant film without requiring film formers or polymers. For example, an SPF50+ formula with oleosomes has passed 80 minute water resistance in vivo and is classified as broad spectrum.

ACTIVE DELIVERY SYSTEMS

Safflower oleosomes are quite large, with diameters ranging from 2-5 μM and therefore are unlikely to penetrate the skin, making them ideal delivery systems. As delivery systems, oleosomes

load and protect oil soluble actives in various personal care applications, including emulsion and alcohol systems.

Extended release characteristics provide safflower oleosomes collapsibility and release their contents on the skin over time, evenly distributing loaded actives, emollient safflower oil, and Vitamin E. A variety of applications are possible with an oleosome delivery system, including: protecting oil soluble actives from degradation, releasing oil soluble actives to the skin over time, and prolonging the presence of essential oils or fragrances.

Other substances can be loaded as well. Ideal candidates for loading into safflower oleosomes are ester products with a molecular weight under 3000 Daltons, feature non-aldehyde components and a HLB between 5-13.

OTHER BENEFITS

As natural ingredients are increasingly required in today's cosmetic formulations, particular attention is paid to not only using naturally-occurring ingredients but their sustainability as well. Acknowledging the drought currently plaguing California, the safflower crop will not be hit as hard as others because of its aggressive root systems that are able to collect water from deeper sources that other crops cannot match. As such, safflower requires less water than its counterparts and can withstand higher temperatures coupled with lower atmospheric humidity.

SPECIALTY INGREDIENTS FOR PERSONAL CARE

AMERICAN GLITTERS: Full range of cosmetic glitters produced with permitted approved colorants

ARMINEX: Manufacturers of traditional and UV curable nail coatings

BAYLISS BOTANICALS: Certified organic botanical distillations

BLP CORP: Functional and specialty active ingredients

CR MINERALS: Pumice

CREMER OLEO GMBH & CO: Naturally derived fatty acid esters

EARTH SUPPLIED PRODUCTS: All-natural and certified organic products

ELÈ CORPORATION: Organo-Silicones, Surfactants, and Functional Materials

EMD: Special effects pigments, cosmetic actives, and sunscreen ingredients

FAWCETT: Drum mixers & pumps, both electric and air driven

FRANK B. ROSS: Natural and synthetic waxes

FUJI SILYSIA: Synthetically produced amorphous silica gels

ICM PRODUCTS: Silicones, defoamers, and additives

IMERYS: Kaolin, Perlite, Diatomaceous Earth, and Mica

IMPROVE USA: Aloe Vera gels, oils, and powders

JBK WELLNESS LABS: All-natural herbal extracts and premixes

J. RETTENMAIER: Natural Cellulose Fibers

JUNGBUNZLAUER: Citrics, Gluconates, Lactics, Special Salts, Sweetners, Xanthan Gum, and Specialties

NUROZ: Hair care and skin care specialty ingredients: sodium salicylate, thickeners, vitamin E oil, vitamin H, and sodium hyaluronate

PREMIER SPECIALTIES: Fragrances, flavors, extracts, and fruit seeds

ROHA USA: Natural and synthetic colors, lakes, and dyes

RML: Caprylyl Glycol and Polylysine based preservatives

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9:00 - 9:05 INTRODUCTION

Rebecca Gadberry

9:05 - 10:10 The Epigenome: Master of the Genome



Rebecca Gadberry

Senior Instructor & Program Director, Cosmetic Sciences
Department of Humanities, Sciences, Social Sciences
and Health Sciences
UCLA Extension

UV, diet, drugs, tobacco, alcohol, ecotoxicants, emotional stress, exercise and cosmetic ingredients are among a number of factors now being proven to trigger chemical influences on gene expression without changing the genes themselves. Known as the "epigenome" – the master of the genome – these changes in genetic expression can occur in seconds, yielding positive or negative impact on the organism – activating stem cells, up-regulating the production of such proteins as sirtuins and collagens, building muscle, triggering diseases like cancer and diabetes and initiating cellular aging. This TED®-style presentation – that received the Henry Maso Award from the National Society of Cosmetic Chemists in 2014 – will:

- Offer a simplified discussion of the epigenome as it relates to genomics and proteomics.
- Review the two most common types of epigenetic mechanisms – methyl groups and histone modification.
- Provide insight into FDA's current position on epigenetic claims.
- Present several ingredients believed to function via epigenetic mechanisms.
- Discuss the implications of this emerging and exciting field of research for the cosmetic chemist.

Rebecca Gadberry is a dynamic, highly acclaimed educator and forty-year veteran of the cosmetics industry. Senior instructor and program director for the *Cosmetic Sciences* program at *UCLA Extension* since 1986, Rebecca has developed over 1300 skin, hair and body care products sold in the professional, medical, on-air, direct and natural product channels for indie, niche, established and start-up brands sold nationally and

globally. She is also an award-winning journalist who has published over 600 articles worldwide and is a popular speaker at national and international conferences and symposia. An active member of the *Society of Cosmetic Chemists*, this year she is honored to support the Society as a member of the newly formed *Advisory Committee to the Executive Director and Chairperson of the Educational Outreach Committee*. Her chapter, *Epigenetic Gene Regulation: A Path to Maintaining the "Processes of Youth?"* in the 9th edition of *Harry's Cosmeticology*, is the first of its kind to be published in the field of cosmetic science.

10:10 - 11:15 Genomics vs Proteomics | Advantages and Limitations



Nava Dayan Ph.D.

President
Dr. Nava Dayan L.L.C

- Gene expression- techniques and interpretation
- Protein expression – advancements
- Case studies:
 - Sunscreens efficacy
 - Elastin

Dr. Nava Dayan is the owner of Dr. Nava Dayan L.L.C, a skin science and research consultancy located at NJ, USA, and serving the pharmaceutical, cosmetic, and personal care industries; dermal and transdermal. Nava offers consulting for product feasibility in skin care, composition of R&D plans covering efficacy and toxicology; planning, execution and data interpretation into claims of experiments during the processes of drug discovery as well as formulations, delivery for improved efficacy and attenuated toxicity. Sample of expertise includes: drug-skin interaction, bio-markers (genomics and proteomics), skin/age related sensitivities, inflammatory skin disorders, innate immunity and biota. She also conducts customized education classes. Nava has 24 years of experience in the greater skin care segment, and have yielded more than 150 publication credits in numerous industry-respected journals and in four books. She has been awarded the In-Cosmetics Gold Award for

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Society of Cosmetic Chemists California Chapter - September Dinner Meeting



Society of Cosmetic Chemists California Chapter - September Dinner Meeting





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innovation and commensurate recognition from the NYSCC and the CRS for excellence. Nava has a wide network of CRO's with whom she is working to fine tune and execute R&D.

11:15 - 11:30 BREAK

11:30 - 12:30 Proteomics as Paradigm: What We Know



Kenneth A. Richman, Ph.D.

Professor of Philosophy and Health Care Ethics
MCPHS University, Boston

Proteomics promises a tremendous surge in our understanding of cells, organs, and organisms, made possible in part by advances in mass spectrometry. As we ride this surge, it can be helpful to put the rise of this new paradigm in the context of other moments in science when new instruments or new ideas shifted our view. Within this context, this talk will examine what types of scientific conclusions may and may not be supported by proteomics data.

Ken Richman is Professor of Philosophy and Healthcare Ethics at the Massachusetts College of Pharmacy and Health Sciences (officially known as MCPHS University), Boston. He grew up in South Orange, NJ, and earned a PhD in philosophy at Rutgers. His published work explores the philosophy of medicine and bioethics, as well as early modern philosophy and the philosophy of education. At MCPHS he serves as IRB Chair and teaches philosophy and bioethics to students in pharmacy, nursing, and other allied health fields. As a consultant and speaker for the cosmetics and personal products industry, Ken's focus has been on identifying ethical liability in research practices, especially involving human research participants.

12:30 - 1:45 LUNCH

Regulatory Speaker in conjunction with BIW

1:45 - 2:45 New Functional & Chemical Proteomics Methods and Strategies



Matt Kuruc

Vice President of Business Development
Biotech Support Group

Functional proteomics supports the characterization of proteomes derived in part from functional or structural features of intact, non-denatured proteins, rather than by differential expression alone. Biotech Support Group has developed surface chemistries and separations strategies to untangle proteome complexity without compromising protein functional integrity. We present key applications for these functional and chemical proteomic strategies.

Mr. Kuruc is the Vice President of Business Development at Biotech Support Group. He supports academic and commercial partnerships in addition to sales and marketing of a catalog of consumable research products.

2:45 - 3:00 BREAK

3:00 - 3:45 Pathways of Epidermal Lipid Biosynthesis



Philip Wertz Ph.D.

Professor
University of Iowa

The biochemical pathways by which the major stratum corneum lipids are synthesized will be reviewed. This will include synthesis of fatty acids, cholesterol and ceramides. Key enzymatic steps will be emphasized.

Philip W. Wertz is a Professor in the Department of Oral Pathology, Radiology and Medicine at

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the University of Iowa and the Dows Institute. He earned his A.B. in biochemistry at Rutgers University and received a Ph.D. in biochemistry at the University of Wisconsin. After post-doctoral training at McArdle Laboratory for Cancer Research, Dr. Wertz was appointed Research Scientist at Marshall Dermatology Research Laboratories at the University of Iowa. In 1990 he was appointed Associate Professor at the University of Iowa College of Dentistry and in 1993 was promoted to present rank. Dr. Wertz's research focuses on lipids and barrier function in skin and oral mucosa. He is a member of the Society for Investigative Dermatology, American Oil Chemists Society, American Society for Biochemistry and Molecular Biology, American Association for Dental Research and the American Association of Pharmaceutical Scientists (AAPS).

3:45 – 4:45 Exploring the Metabolome Effectively to Advance Skincare Research



Tracy Shafizadeh, PhD

Associate Director, Lipomics Services
Metabolon

The architecture of human skin is complex and each layer possesses a metabolic signature with a unique composition and function. Metabolomic analysis of skin elucidates biochemical changes associated with and is crucial to understanding various skin conditions, i.e. acne, atopic dermatitis and aging. Global and focused metabolomic assessment of sebum, stratum corneum, skin biopsy, cell culture and reconstructed skin models allows us to understand the unique biochemical composition and regulation of the skin metabolome and provides insight into biomarker identification, response to intervention, and the development of therapeutic and skin care products across a variety of skin conditions.

Tracy Shafizadeh serves as Associate Director of Lipomics Services, a division of Metabolon. For the past 10 years, Dr. Shafizadeh has been working in the areas of personalized medicine and diagnostic development, specifically focused on the role of nutrition and metabolism in cardio-metabolic disease. Working closely with collaborators in skincare

research, Tracy has been integral to advancing metabolomics applications to understanding skin biology. Prior to joining Metabolon, Dr. Shafizadeh served as Product Development Manager at Tethys Bioscience, Scientific Alliance Manager at Lipomics Technologies and numerous consulting roles for the nutrition and AgTech sectors. Dr. Shafizadeh received her Ph.D. in Nutritional Biology from the University of California, Davis.

4:45 – 5:15 SPEAKER PANEL & AUDIENCE DISCUSSION

Rebecca Gadberry, Moderator

This active Q&A session will encourage audience and speakers to futurecast the opportunities, concept applications and ethics presented by the 'omics' category.

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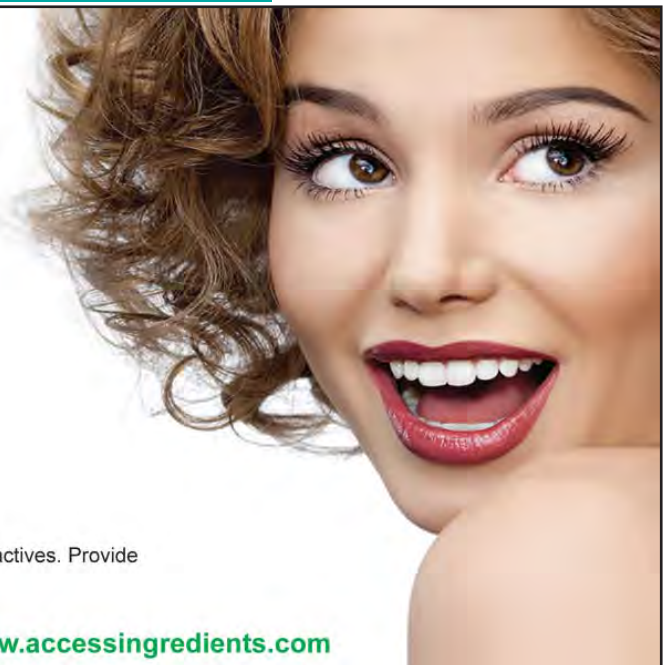


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Proteomics in Skin Care- From Fundamentals to Newest Technologies

Nava Dayan Ph.D. and Matthew Kuruc

GENERAL INTRODUCTION

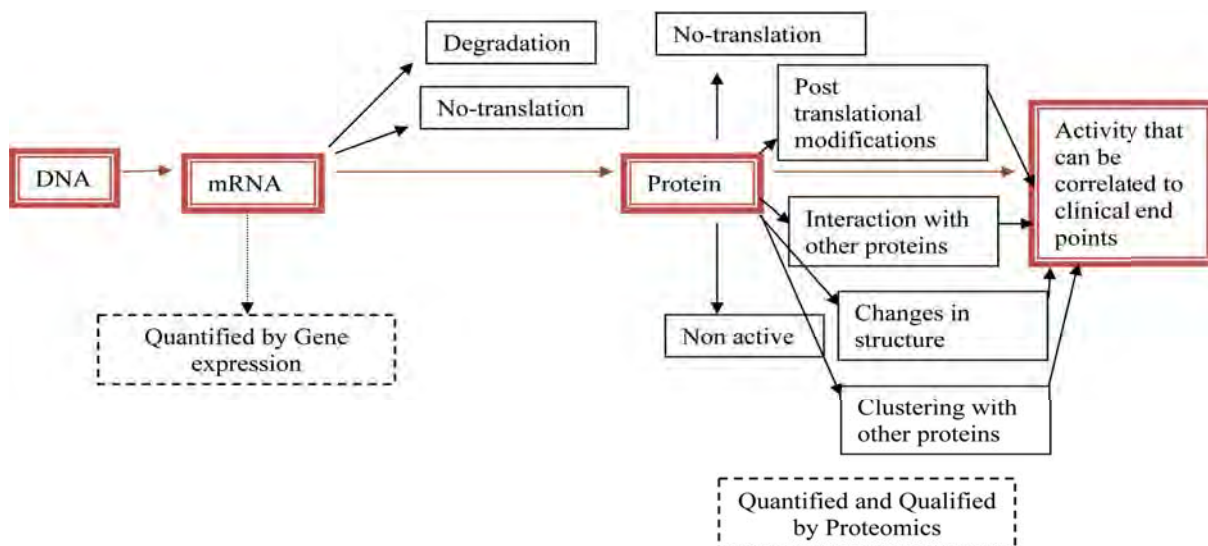
The proteome is the entire complement of proteins including the modifications made to a particular set of proteins, produced by an organism or system. Proteins are vital part of the living organism controlling metabolic paths of cells. They serve as receptors, transporters, mediators, enzymes and network components of extracellular matrix domains. Analogous to the field of gene expression for mRNA analysis, the field of proteomics surveys the presence of proteins. However, unlike gene expression, proteomics can also assess structure, splice variants, post-translational modifications and interactions with compounds, substrates and other proteins, affording a much deeper view of functional relevancy towards phenotypic characterizations.

In recent years, gene expression analysis has been utilized to study the reactivity of certain treatments to skin. While gene expression provides some mechanistic insights for cells that are deviated from normal, it only indirectly infers cellular bio-chemical cascades, as it is now generally acknowledged that mRNA regulation is not always correlated to protein regulation and function. So, unless gene expression is superimposed with proteomics, clinically relevant features of the phenotype may be misrepresented.

In fact, the amount of protein produced for a given amount of mRNA depends on the gene it is transcribed from and on the current physiological state of the cell. The cascading events that further control translation of mRNA to protein and its activation is highly complicated and beyond the scope of this review. Nevertheless, the goal of proteomics is to compare and identify which proteins are deviated from homeostasis in their amounts, structures and interactions with other regulating constituents. While such comprehensive assessments are rarely achieved in proteomics, the field has advanced many new methodologies to efficiently profile subsets of proteomes, or targeted functional or structural surveys to allow faster, cost effective and more accurate analysis. The selection of such methodologies depends on the hypotheses posed, and biological outcomes to be monitored. If gene expression data is available, that might be a good place to start.

While there has been great progress in uncovering gene expression patterns that are clinically informative, and suggest pathway associations with disease or compound-induced modulation, two key challenges remain. The primary challenge is to establish a correlation between the prospective gene markers and their corresponding protein products, especially the subsets most relevant to clinical features of the skin phenotype. A second challenge is to distill these most informative subset of genes to assayable biomarkers that can be readily measured from biological tissues. A variety of tools and techniques support such targeted proteomic efforts.

When gene expression is not available, direct proteomic analysis of skin is a practical alternative.



PROTEOMICS IN SKIN CARE

The skin, like all other organs in the body contains an abundant variety of proteins that function at different levels. From keratins in the stratum corneum, collagen and elastin in the dermis, all the way to

(cont'd on page 29)

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extracellular matrix proteins - proteins in the skin are the entities that allow it to maintain its essential functions as a protective immune response organ. Examples of proteomic analyses in skin include:

- * Barrier function at the stratum corneum levels identifying changes at the cornified envelop and desmosomal structures.
- * In the living epidermis- following immunological paths of cytokines, receptors and transporters expression utilizing cell lines such as keratinocytes, melanocytes and Langerhans cells.
- * In the dermis- understanding changes in the skin extracellular matrix foundation (collagen and elastin levels and modifications such as in advanced glycation) in relation to skin aging and wound healing in fibroblasts models as well as immune related modifications in mast cells degranulation.

An example for utilizing proteomics in skin care can be drawn from two studies in which psoriatic skin was studied. In the first study Ryv J et al (1) conducted proteomic analysis of psoriatic skin tissue for identification of differentially exposed proteins. They compared markers in lesion psoriatic skin vs. non lesion and normal healthy skin. The group discovered that psoriatic lesions expressed the highest number of proteins (145) in comparison to non-lesion (74) and normal skin (11). Two dominant proteins glutathione S transferase (GSTP1) and Peroxiredoxin 2 (PRDX 2) were significantly upregulated in psoriatic skin pointing towards compensation mechanism for reducing oxidative stress in chronic inflammation state. The second study published by Johansen C et al (2) scientists point towards limitations of gene expression study that are overcome by proteomic analysis. When comparing lesion vs. non-lesion psoriatic skin m-RNA levels of TNF α appear similar. However proteomic analysis of post translational modifications to TNF α vary significantly. Moreover, utilizing proteomic techniques the group was able to draw the pharmacological cascade that involves other related proteins and identify TNF α as a target for disease mitigation. They discovered that increased levels of MAPK- activated protein kinase 2 together with increased MK2 kinase activity are found in lesion when compared to non-lesion psoriatic skin. The increased activation of MK2 is responsible for the elevated and post transcriptionally regulated TNF α . In fact it was discovered that in its inactive form, MK2 is located in the nucleus and only upon activation by p38 α and β MAPKs it is translocated from the nucleus to the cytoplasm to generate effect.

EXPLORING OPPORTUNITIES

For skin research, proteomics can generate protein profiles for a variety of end points that include treatment and exposure regimens; i.e. chemicals and finished formulations, comparison between young and elderly, healthy and diseased skin, different body sites, ethnicities, genders and the like.

Functional proteomics differs from conventional proteomics as it relies in part, on the functional or structural features of intact, non-denatured proteins. Chemical and affinity based proteomic profiles can be considered subsets of functional proteomics. One such proprietary method, called compound-centric displacement proteomics (CCDP), enriches for the complement interactomes (the subset of interaction proteins) of a small molecule or active compound. In contrast to common methods, compound-centric displacement proteomics (CCDP) efficiently profiles small molecule compounds as displacement agents from surface architectures that support weak affinities of complex proteomes. Previous chemical proteomic methods relied on first immobilizing the compound on the surface. Such methods can distort the compound's orientation generating misleading results and incomplete surveys. Normalization of background protein binding and robust negative controls are intrinsically challenging with compound immobilization methods.

The advantage of the CCDP method is that solution phase compounds are not subject to orientation biases. Negative controls are robust. Furthermore, it can be applied towards any compound as it does not require substitution or tag modifications. As compound concentrations can be varied, some measure of relative binding affinities between compounds can be characterized. Finally, when sufficient protein quantity is available, protein compression is achievable, and may help minimize bias towards the high abundance protein content and uncover low abundance interactions that otherwise would have been hidden. Coupled to LC-MS/MS, gene sequence annotation of these sub-proteomes (the "interactomes") can identify prospective biomarker proteins that interact with the challenging compound. Upon identifications established here, with guidance towards the functional pathways modulated by the drug-protein interactions, a mechanistic interpretation can be made to describe the phenotypic changes associated with the cells.

In recent years there has been great progress in the establishment and understanding of in vitro and ex vivo models to study skin. Still, no method can replace a well-designed clinical study, but such studies are costly and time consuming. The prediction of clinical impact based on in

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in vitro screening affords tremendous cost savings, bringing better actives to the right applications. While proteomic assessment is fundamentally another in vitro/ ex vivo method, it bypasses some of the bias associated with direct markers analysis or gene expression and therefore may provide a closer correlation to in vivo scenarios.

ACCESSIBILITY TO TESTING

The future is accessible. Proteomics requires a combination of expertise and knowledge. For this, Dr. Nava Dayan L.L.C and Biotech Support Group have formed a collaborative initiative combining skin science and research with wet-end experimental observation, and bioinformatic interpretation. Biotech Support Group brings an understanding of techniques in extraction, separation, isolation and analysis of proteins in a variety of customized approaches. Dr. Dayan has industrial experience and analysis skills in skin biochemistry that are utilized both in study design as well as in data interpretation and claims substantiation.

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This article originally appeared in the November 2013 issue (Vol. 19, No. 9) of "Cosmetiscope", the monthly periodical of the New York Society of Cosmetic Chemists.

Regulatory Affairs Column

Microbeads: An Unforeseen Issue

Janet Winter Blaschke

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

For many years, industry marketed "Apricot Scrubs" containing ground walnut shells to perform physical exfoliation for the skin. These products especially appealed to the "natural" products market, but tended to be difficult to make, and the ground shells often were contaminated with mold or bacteria, and needed special handling to assure a safe product resulted.

Along came Microbeads, small plastic particles of various diameters, which were more elegant, easier and safer to use. Problem solved. Who would have predicted what was next?

Along came an article in the Los Angeles Times. <http://www.latimes.com/science/la-me-0126-microbeads-20140126-story.html>, and identification of microbeads in the Great Lakes. It has not been determined precisely if they are indeed coming from Cosmetics/personal care products. However, cosmetics were easy to target since they are perceived to be frivolous products.

Interestingly, California was not the first area to legislate their removal. Illinois, bordering the Great Lakes, passed legislation, working closely with the Industry through the Personal Care Products Council, negotiating a reasonable timeline for all concerned. The immediate problem of a short-term ban was abated

The supply chain of new regulations continues to move downstream. The most impactful legislation now is Erie County, NY which has now enacted a law which specifies a **sales ban** of products containing microbeads, effective February 14, 2016. Product must be removed from retail shelves and other consumer distribution channels by that date. In case a company is planning to move the product they can no longer sell in Buffalo, don't plan to ship it to Canada, who is already working on their own ban under their environmental law.

Not enough fun yet? Now environmentalists are targeting microfibers, such as those found in cleaning wipes. http://www.huffingtonpost.com/2015/01/10/plastic-fibers-great-lakes_n_6448354.html.

Stay tuned!





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VP: Yes I actually loaded my car and drove out from Ohio with my mom. We stopped in Vegas and then made it out to LA. It was a big move but well worth it.

JL: You know who else did that? John Garruto back in the 70's

VP: The seventies? You mean back in the last century?

JL: Ok let's move on.

JL: So you work closely with Emily Reed?

VP: Oh yes! Emily is wonderful, she has taught me so much!

JL: Well I have known Emily for around 30 years, I am sure she has mentioned my name to you many times.

No Reaction

JL: I mean she must have said something?

VP: Nope, nothing

JL: Well that's strange, are you sure?

VP: Well let me think....nope nothing

VP: But Emily's experience brings a wealth of knowledge to Paul Mitchell for sure.

JL: So you are a chemist at John Paul Mitchell Systems working on reactive hair color chemistry?

VP: Yes that is true but I have never turned anybody's hair green on purpose....well there was one time.

JL: Please tell me!!

VP: One person who came into our salon was not very nice. She told me I better not mess up or damage her hair.

JL: So you intentionally turned her hair green? OMG I love it!!!!

VP: Don't tell anybody that, please!

JL: You have my word, no one will ever hear about it.

JL: So there is a rumor going around that you will not retain me as Historian? Is that true?

VP: I haven't decided. You know the new chair has to bring in her new group!

JL: Well Angie kept me!

VP: She barely tolerates you!

JL: I know but she still kept me!!!!

VP: Well I don't know, maybe! You have to be more honest! You can't keep making fun of Brad Rope, Lee Paler, Karen Chun, Becky, I mean Rebecca Gadberry, and others!!!!

JL: Sure I can it's so much fun!!!! I mean you are right, I need to get a bit more serious with these columns. I promise.

VP: Ok I will consider it. Are we about done? What is that rumbling noise?

JL: Oh it's the Yugo. It back fires for a bit once I turn the engine off, give it a second.

VP: This is so embarrassing and right in front of my house!!!!

VP: Thank you John, this is an interview that unfortunately I will not quickly forget nor will my neighbors.

JL: Thank you, I really appreciate you saying that.

VP: Wow we circled the block 7 times!!!

JL: I believe this is your place, thanks again Valerie and see you soon.

JL: Wait! Why are you running? What's the hurry?? Maybe lunch soon??

JL: Hey I need my belt back!!!!!!

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Become A 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.**
- **The exclusive right to distribute literature and samples at the monthly meeting.**
- **Optional table adjacent to the registration table to distribute literature and samples by one or two employees.**
- **Your company name will appear on our Sponsor board at the meeting.**
- **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 if you are interested or have any questions.

Yi Hsin Chang
Sponsorship Chair
ychang@ingsolutions.com

Announcements

Have your Technical Paper Printed in the Cosmegram!!

Do you have a technical paper you would like to share with our Chapter? Contact Kelly Stone (stone@centerchem.com) to discuss possible submissions.

Help our Chapter Win the National Contest! Renew Your SCC Membership Today!!

Did you know we compete with the other 19 Chapters of the SCC for membership renewals?! Well the prize is not only the enviable bragging rights but a nice chunk of money too!

We want to pass that prize along to our members so... if our Chapter wins, there will be a hosted cocktail hour with drinks and hors d'oeuvres at the January 2016 Monthly Meeting!!! **Show your Chapter pride and renew your membership by 12/31/2015.**

Members who renew before **Supplier's Day on 10/14/2015**, will also be entered into the running for a **\$100 gift card** so don't miss your chance to win!!!

You can now renew online at www.sconline.org and we will also have a booth to renew at Supplier's Day. You can even repay for multiple members with one check!! If you are having difficulty with the process, please contact Tina-Marie Lesko (tmlesko@presperse.com).

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.

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Deadline for the November Cosmegram is October 21

Please forward all content to
[Kelly Stone \(stone@centerchem.com\)](mailto:Kelly Stone (stone@centerchem.com))

Attention all DIRTY GIRLS AND BOYS!

Got your attention?!

Time for a full-body mud pack. After all we are the SCC. Sounds so beneficial doesn't it?

It's been some time since I have organized an active outing for all of us. As you remember, we white water rafted a section of the Colorado River and then helicoptered out. We have played Tug-o-War with a 737 jet airplane at the Long Beach airport for Special Olympics. You now have a chance to do a mud run for charity. Don't be afraid this is not an intense mud run; in fact you don't even have to run if you don't want too. This event is called Muck Fest and supports the Multiple Sclerosis Society. It will be held at Prado Park in Chino on Saturday October 24th. I have started a team called the Mucksters. The team is shaping up and appears to be heavily supported by your fellow SCC members. Everyone is welcome to join. The web site for more information is www.muckfest.org. This is a very hysterical event. Check it out. If you have questions please contact me at dbrrh_prc@yahoo.com.

Hope to see you there.

Sincerely,

Deborah Pierce – Captain Muckster and Vice President of the SCC



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