

# COSMEGRAM

california

November 2015

Volume 45 | Issue 8

## Free Meeting for Members with Reservations

### Dinner Hour

### Understanding What Can Go Wrong With Cosmetics & Personal Care Products: Overview & Troubleshooting

Nick Morante  
Senior Chemist  
IFC Solutions



### About Our Speaker

Nick Morante is currently a Senior Chemist at IFC Solutions (formerly International Foodcraft) in New Jersey where he works with many types of colors and additives for both the food and cosmetics industries utilizing them in many different applications. He

...continued on page 3

### Educational Hour

### Green Fragrance Solublizers

Dennis Abbeduto  
Senior R&D Chemist  
Colonial Chemical, Inc.



As formulators continue to look for natural alternatives to ethoxylated materials, fragrance solubilization has been an area with few viable alternatives. Fortunately, good formulation solutions are starting to enter the marketplace.

We'll look at the performance of several commercially available non-ethoxylated and naturally certified solubilizers and compare their performance to traditional solubilizers as well as each other. We'll also see how these new solubilizers compare with regard to ease of use, formulation compatibility, and natural branding.

...continued on page 3

### Meeting Details:

Date: **Tuesday - November 17, 2015**  
Location: **Manhattan Beach Marriott**  
Menu: **Chicken Breast or White Fish**

Educational Hour - 5:00 p.m.  
Dinner Hour - 6:30 p.m.

Social Hour - 6:00 p.m.  
Dinner Speaker - 6:30 p.m.

**More Meeting Details on Page 2**

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Reservation Deadline: 12:00 p.m. (noon) Friday-Nov. 13  
If you reserve and do not attend, you are responsible for meeting charges.  
You will be billed accordingly.

**Meeting Reservations are strongly encouraged no later than November 11<sup>th</sup>**

### Inside this issue:

Calendar...2    Message from the Chair...5    Historian's Column...8    Job Opportunities...11    Feature Article...17

## Meeting Details

### Location

Manhattan Beach Marriott  
1400 Parkview Ave.  
Manhattan Beach, CA 90266  
(310) 546-7511

### Costs

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

### Menu

Mesclun Greens with Extra Yellow Frisee, Goat Cheese, Roasted Pecans, Persimmons, Dried Cranberry, Cherry Tomato  
Garlic Roasted Chicken Breast with Sweet Potato Puree, Grilled Baby Vegetables, Buttermilk Gravy **OR**  
Herb Crusted White Fish with Mushy Peas, Roasted Root Vegetables and Citrus Caper Sauce **OR**  
Butternut Squash Ravioli with Brown Butter Sauce and Sage  
Dessert: Brown Butter Apple Crumble Tart

### Reservations

Please register and pay online at [www.caliscc.org](http://www.caliscc.org); Sara Benoit: **661-388-6373**.  
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

### Thank You to Our Meeting Sponsor

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## Society of Cosmetic Chemists - California Chapter

### 2015 Calendar of Events

#### 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*

#### January

26 California Chapter Monthly Meeting *Manhattan Beach Marriot*

#### February

16 Formulating Natural Cosmetics Day Conference *Ayers Hotel, Manhattan Beach*  
23 California Chapter Monthly Meeting *Universal Sheraton*

## Dinner Hour

...continued from page 1

has over 40 years of experience in the formulation of cosmetics, personal care products and makeup products. Prior to joining IFC, Nick was a consultant to the cosmetics industry for over 10 years providing custom formulations for clients as well as giving presentations and seminars to various companies and organizations within the cosmetics industry providing guidance in the practical use of color in consumer products. He is current an adjunct faculty member at Fairleigh Dickinson University's School of Natural Sciences in Hackensack, NJ where he is an instructor in the Master of Science Program in Cosmetic Science.

Nick also spent over 30 years Research and Development at The Estée Lauder Companies where he was both a formulator and laboratory manager in the corporate makeup and hair care departments. He was also in charge of the Color Science Laboratory where he was responsible for color measurement and spectrophotometric analysis of finished products, ingredients and human skin as it relates to color that is used in various cosmetic products, as well as developing

testing protocols and methodologies for many color applications.

Nick holds a Bachelor of Science degree from The New York Institute of Technology. He has taken numerous continuing education courses in the area of cosmetic science. He is a long time member of The Society of Cosmetic Chemists and has been active both on the local and national levels having served on the executive committee for the Long Island Chapter and on the National Board, serving as Area Director and National Secretary. He has been elected a Fellow of the Society and is an instructor for the Society's Continuing Education Program (CEP) Program in the area of color and makeup formulation and troubleshooting.

He has given many seminars and presentations worldwide as well as to the SCC, CTFA and HBA. He has been awarded numerous patents and has contributed many articles and papers and authored chapters to numerous cosmetic, technical and beauty publications and texts.

## Educational Hour

...continued from page 1

### About Our Speaker

Dennis Abbeduto is a Senior R&D Chemist at Colonial Chemical, based near Chattanooga, TN where he specializes primarily in personal care applications and technical service. He has 20 years industry experience and SCC involvement.

Prior to Colonial Chemical, Dennis worked on

skin care innovation and as a formulator for the St Ives brand at Alberto Culver. He also worked as an R&D Chemist for McIntyre Group, Ltd. Dennis has been active in the SCC as Midwest Chapter webperson 1997-2010, 2006 Secretary, and 2009 Chair.



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](http://www.sconline.org)



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## Happy Holidays

Angie Inouye  
Charkit Chemical Corporation

Happy Holidays... Yes, the holiday decorations are up and the last meeting of the year is here. I hope everyone had a wonderful year and we are ready to enjoy all our hard work from this year and prepare for the holidays with peace.

Thank you to all the members for your exhaustive efforts this year and making the California SCC a growing and energetic chapter.

We have elected a great new board for 2016 and at this month's meeting we will be meeting them. Please make sure to take advantage of the free November meeting to members and

introduce yourself to the new board members

Thank you again for such a wonderful year and I was honored to be your 2015 Chair.



Best,

Angie Inouye  
2015 Chair, California Chapter  
Society of Cosmetic Chemists



## Formulating Natural Cosmetics

Tuesday February 16<sup>th</sup>, 2016

Full Day Conference with Leading Industry Speakers

Formulating Natural Products Perry Romanowski  
Formulating Natural Products with Natural Colorants Stephen Lauro  
Preserving Natural Products David Steinberg

### Itinerary:

Breakfast	8:30am
Presentations	9:00am - 4:30pm
Lunch	12:00pm - 1:00pm
Cocktail Reception	4:30pm - 6:00pm

### Cost:

Members \$40  
Non-Members \$95 Student \$25

Full Conference and Speaker  
Details Available Online

[www.caliscc.org](http://www.caliscc.org)

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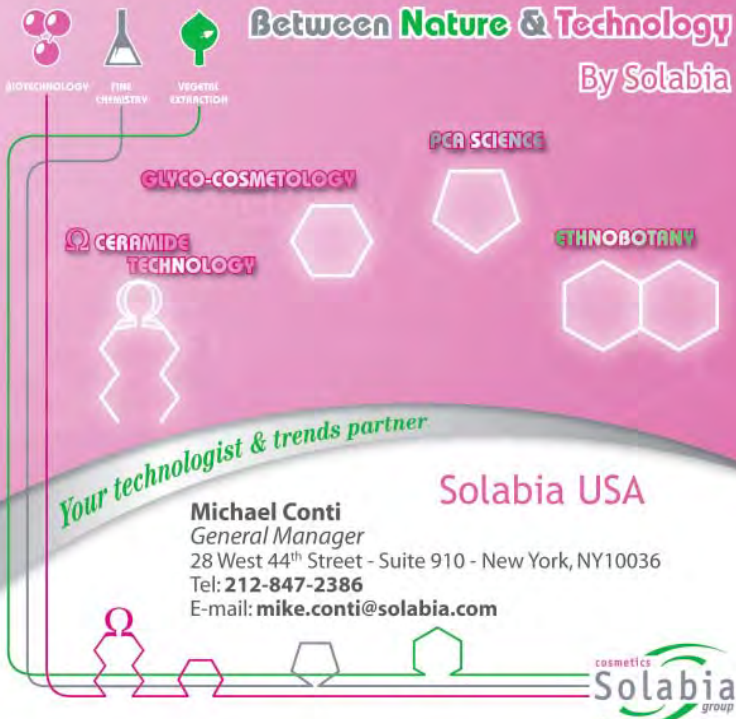
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## NOVEMBER 22nd

John Luna

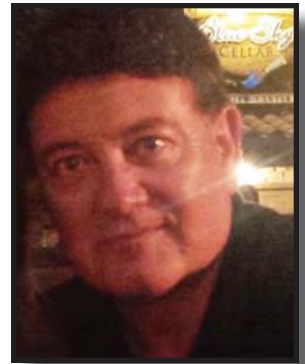
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There are few moments in history through our lifetime that we will never forget. It could be a wedding day, the birth of a child, or a horrific event such as 9/11. Who doesn't remember where they were and what they were doing on that fateful morning. One such event for those of us old enough to remember was the assassination of President John Kennedy on November 22nd, 1963. I thought it might be interesting for this November issue of the historian's column to interview some of our members and share their memories of that dreadful Friday afternoon.

I will start with myself as I remember that day as if it were yesterday. I was in first grade at St. Anthony's Catholic School. My teacher, Sister Therese Marion was a hip nun who often listened to pop music as she was teaching class. She was in her twenties, always wore tennis shoes and dark sunglasses and loved playing kickball with the boys. She even brought in a black and white TV that October to watch the Dodgers play the Yankees in the World Series! I of course will never forget as the Dodgers swept the powerful Yankees in 4 games. Friday, November 22nd, 1963 was a gorgeous sunny day in the southland, my lunch was packed and I was anxious to get to school so I could sit next to the cutest girl in first grade, Sandra Medina!! Sister Therese was listening to her transistor radio as we worked in our notebooks. Suddenly at 10:30 am, instead of music, we heard some kind of news bulletin and judging by the look on Sister's face, it seemed serious. She told us to get on our knees and pray for President Kennedy who had just been injured. She then went out onto the courtyard to tell the other teachers. When she came back, she was visibly shaken and in tears. Just after 11 am, Sister Therese Marion announced that the first Catholic president of the United States had been killed. Parents were called and school was dismissed. I remember some kids crying, some talking but mostly just an eerie quiet due to the shock of that moment as everyone left school. I next interviewed John Garruto.

JL: Johnny boy, tell me what you remember.

JG: Oh Johnny it was a very sad day. I was sitting in Mrs. Persley's sixth grade class at Thomas Jefferson Elementary School in beautiful Binghamton, New York, when the principal came in and told Mrs. Persley to step out of the classroom. She came back in visibly shaken and in tears. She could not speak so the principal told us that President Kennedy had been shot and was dead. I remember



being in total shock as it took a while to sink in. There was an eerie quiet for a few seconds and then some of the kids started crying. We are all excused from school just after and I remember looking at the news reports on TV. We had a console color TV but most programs were not in color in 1963 as funny as that sounds. I also remember the newscasters smoking on the air while reporting the story. Don't know why I remember that but I just do. That's it Johnny, just a horrific day.

The recollections of Mr. Bill Dowdy:

BD: I remember it well, I was at the Baltimore and Potomac Railroad Station boarding a train when someone walked up and shot the president point blank. Everyone in the station could not believe what they saw!!

JL: Wait! What?

BD: You asked me about the assassination of the president so I am telling you what I remember.

JL: Yes! But that's not what happened.

BD: It most certainly did, I saw everything. President Garfield walked in and was immediately shot!

JL: OMG!! Uh no, that was in 1881, I meant President Kennedy.

BD: Oh sorry!!! I was a student at the University of Maine in the rec room after a hard week of classes. I believe I was playing pool with a friend when someone frantically ran into the room saying President Kennedy had been shot and had died. At first there was silence and then total shock set in. None of my friends said a word and we just all walked back to our dorm rooms to watch the events on TV. Like 9/11, I will never forget that day as long as I live. The President had just visited the University of Maine about a month before he was shot, so sad, so very sad.

The recollections of Larry Helscher:

LH: I was in Geology class which was part of my biology major at the University of Cincinnati but nothing was announced until we got out of class. Remember unless there was a TV broadcasting live in the class or you had a

*(cont'd on page 34)*



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- **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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:hr@neutraderm.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](mailto:recruiting@robinsonpharma.com).

*(cont'd on page 12)*

**POSITIONS AVAILABLE**

- **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.
- **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@iclpl.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.

*(cont'd on page 13)*

**POSITIONS AVAILABLE**

- **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.
- **R&D TECHNICIAN, TECHNICAL OPERATION (#1511-03).** This position is responsible for testing new raw materials on marketed products ensuring that formulas meet expected performance, safety and regulatory requirements. Help on trouble shooting production batches. Please send resumes to dmooregipson@arbonne.com.
- **RAW MATERIAL ANALYST (#1511-04).** The Raw Material Analyst is responsible for collection, maintenance, analysis and distribution of administrative information used for ingredient safety and regulatory reviews. Work requires a close working relationship with raw material suppliers/manufacturers, Sourcing, R&D and Regulatory departments. Manager and is reviewed principally by observation of results obtained. This individual will provide support to all new formula launches and regulatory compliance. The successful candidate would be expected to learn quickly and become an expert in company's ingredient policy. Please send resumes to dmooregipson@arbonne.com.
- **FORMULATION CHEMIST (#1511-05).** YG Laboratories, a well establish private label skincare manufacturer is in search of a full-time Formulation Chemist with 2-5 years of experience in skincare product development and manufacturing. This person will be working in a highly dynamic and creative environment and will oversee all stages of formula development from concept to an approved scaled-up batch, as well as reverse engineering of existing products for various clients. Must have a solid working knowledge of raw materials and the formulation of personal care products. Ideal candidate will possess a Bachelor of Science (BS) degree in Chemistry, Biochemistry, a related science field, or equivalent. Must be a team player, have excellent problem solving skills, the ability to interpret experimental results, be neat, organized, extremely detail oriented, and must work well with minimum supervision. This is a full-time position, M-F, with a competitive salary and benefits package. Send resume to aprilw@yglabs.com.
- **ACCOUNT MANAGER (#1511-06).** Solabia USA, Inc. is seeking a highly motivated sales professional for the position of Account Manager, to represent our range of active cosmetic ingredients and plant extracts in the western region. The position requires the ability to interact and work closely with leading clients in the cosmetic and personal industries and to present the appropriate solution to our customers. The territory will include Southern California, San Francisco and Utah. We are seeking an experienced sales person with an in-depth knowledge of the skin care, hair care, and personal care market. Some technical knowledge is required to excel in this position. The ideal candidate will be organized and must be able to work independently; this position reports to the US headquarters in New York City with a close working relationship with Solabia headquarters France.. If you are interested to know more about this position, please send your resume to: mike.conti@solabia.com.

*(cont'd on page 14)*

### POSITIONS AVAILABLE

- **PRODUCT DEVELOPMENT ASSOCIATE (#1511-07).** The Product Development Associate (PDA) supports the Product Development Manager with managing projects from concept through execution. This position is responsible for creating new product concepts, color collections and kits. Also serves as a liaison between Product Development and Operations to coordinate bill of materials (BOM) development, issue COG's, routing approval forms, requests specs from buyers and follows up on raw material/component due dates. The PDA leads all existing packaging and formula redevelopment. Initiates creative work orders for all materials to support launches including kits, displays, planograms, instructions, packaging updates, new package art and premium items. The position also helps interpret trends & consumer insights to support the development and implementation of brand concepts and strategies, including merchandising and competitive landscape. Please send resumes to [epiwonka@orlybeauty.com](mailto:epiwonka@orlybeauty.com).
- **R&D CHEMIST (#1511-08).** Aware Products, a personal care manufacturer in Chatsworth, is looking for an experienced R&D chemist. Responsibilities of the position include formulation of all hair care and body care products including OTC products, writing manufacturing procedures for scale up, troubleshooting and adjusting batches, understanding global regulatory requirements, researching new ingredients, maintaining stability records and lab notebook, as well as knowledge of current technical and industry trends. The ideal candidate will have a BS in chemistry or related discipline with a minimum of 3 years of experience in cosmetic formulating. Please email resume and salary requirements to [gmclarty@awareproducts.com](mailto:gmclarty@awareproducts.com).
- **RESEARCH & DEVELOPMENT DIRECTOR (#1511-09).** The Research & Development Director is the Chief Technology Officer for the personal care team, responsible for all research including setting R&D priorities and budget to align with strategic plans product development, scouting for new products and formulation activities from product conception to commercialization. This includes responsibility for the quality and safety of all products and programs. We are seeking an entrepreneurial strategic thinker, to operate in a fast-paced environment, willing and able to embrace change. Qualifications include a PhD in Microbiology, Chemistry, or Biochemistry, 8+ years personal care industry experience preferably with hair/skin care, sun, cosmetics background. [www.kemin.com/careers](http://www.kemin.com/careers).
- **PRODUCT DEVELOPMENT ENGINEER (#1512-02).** Rodan + Fields is seeking a scientist with a strong technical understanding of the skincare category (both cosmetic and OTC) to play a pivotal role in the development and manufacturing of the company's products. The Engineer will be responsible for moving product from the development stage into pilot and full-scale manufacturing and through product life-cycle manufacturing. Responsibilities include implementation of formula changes, CMO technical management and with the quality group, implementation of corrective actions, finalizing specification parameters and developing various testing protocols. Requirements include degree in Chemistry (or related science) and 7+ years relevant experience. Please send resumes to [jclausen@rodanandfields.com](mailto:jclausen@rodanandfields.com).

### POSITIONS WANTED

- **COSMETIC CHEMIST (#1511-02).** Cosmetic Chemist - nine years of experience in Cosmetic / Personal Care Mfg. seeking a relevant position. Salary is negotiable. Please, Contact: George Ibrahim. Home: (818) 892 - 9269, e-mail: [OMELNOOR1@YAHOO.COM](mailto:OMELNOOR1@YAHOO.COM) or [geynib439642@roadrunner.com](mailto:geynib439642@roadrunner.com)
- **SR. ACCOUNT MANAGER (#1512-01).** District account manager with a proven track record of success in expanding the sales volume of existing accounts as well as developing new accounts through targeted prospecting and direct marketing. Currently seeking a position managing accounts for a company specializing in the cosmetics industry offering growth opportunities earned through on the job performance. I may be reached at 323-522-4986 or email at [1davidbvazquez@gmail.com](mailto:1davidbvazquez@gmail.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, 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.*

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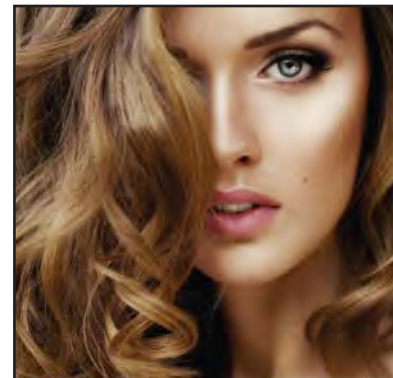


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## Smarter Ways

Steve Herman

**WORKING HARD AND WORKING SMART SOMETIMES CAN BE TWO DIFFERENT THINGS...**

Byron Dorgan

Advances in science, technology, and information management can help us do things faster and smarter than was previously possible. Our experimental work will benefit from using effective ways of collecting and analyzing laboratory data. We can save time and money, two precious commodities, by using predictive computer programs to generate trustworthy estimates of chemical and toxicological properties. We can formulate much better products than those put on the market years ago if we proceed logically and understand the properties and functions of every ingredient being used.



Historically there are very few rules to follow in personal care formulation. Look at undergraduate textbooks in physics, chemistry, and biology. The physics book will be loaded with equations. The chemistry book will have some equations and quantitative relationships, but relatively more descriptive information. Biology is by far the least mathematically rigorous and most descriptive of the sciences. Personal care formulation resembles biology. Outside of HLB theory or Stoke's Law, or a formula for neutralizing fatty acids and polymers, there are few set rules to guide the formulator.

Rigor has crept into cosmetic science over the years. Where once a material was either polar or nonpolar, we now have Hanson Solubility Parameters and Clog P. We know more about formulating to deliver actives, and how the polarity of the oil phase impacts the SPF of a sunscreen. Increasing the stability of a sunscreen molecule exposed to UV radiation using triplet quenching involves nothing less than quantum mechanics.

Let's examine three examples of smarter ways of working: analyzing multiple variables using phase diagrams, using SMILES notation as an input tool to predict chemical properties using computer programs, and following the reasoning of a decision tree to establish the safety of aroma chemicals.

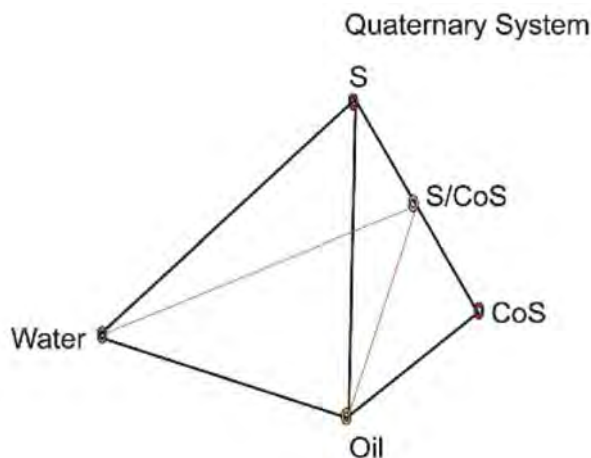
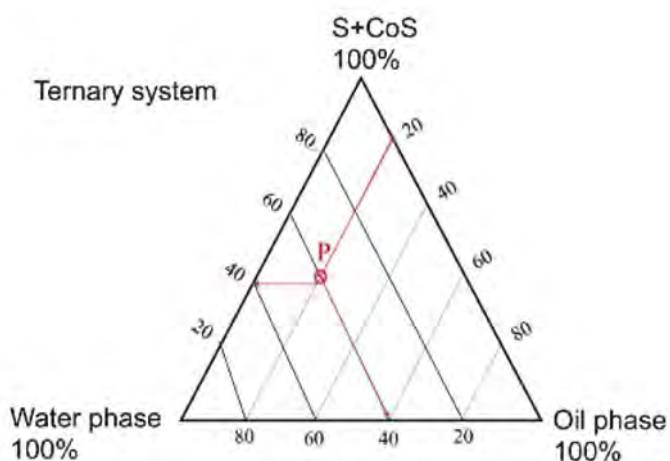


Figure 1 Quaternary phase diagram.

### Analyzing Multiple Variables Using Phase Diagrams

Trial and error is the worst approach to a formulating challenge. Organizing data graphically can provide a roadmap and possibly reveal unexpected relationships. Multiple variables especially benefit from the use of phase diagrams. Assume there are four variables. They can be placed at the corners of a pyramid, and every point inside represents a possible combination. The result is a quaternary phase diagram (Figure 1).



A triangular slice out of the pyramid in Figure 1. This slice is a ternary diagram. Point P in this triangle represents 40% water, 20% oil, and 40% surfactant and co-surfactant.

Properties such as viscosity, micelle structures, tackiness or clarity can be data points. In this example we will explore areas of microemulsion formation. Figure 1 has oil, water, a surfactant (S),

(cont'd on page 19)



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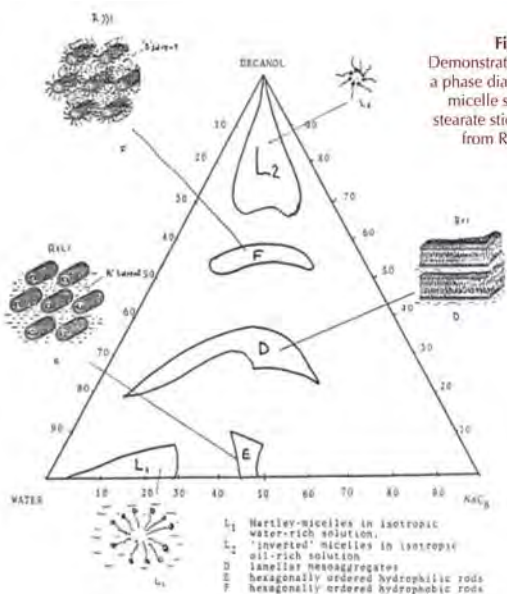
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and a co-surfactant (CoS). To generate data we take a specific ratio of surfactant and co-surfactant, effectively taking a triangular slice out of the pyramid. Figure 2 shows this slice, now a ternary diagram. Point P in this triangle represents 40% water, 20% oil, and 40% surfactant and cosurfactant. Titrating water into a mixture of surfactants and oil can reveal areas of clear solutions in ratios where microemulsions are spontaneously formed.

Figure 3, from an article by Graham Barker, shows the use of a phase diagram to identify micelle structures in a stearate stick.<sup>1</sup> Barker was able to identify the amount of water and sodium stearate necessary to make a rigid composition. This clearly shows how a phase diagram is the best way to present certain types of data and to see deeply into the fundamental properties of a formulation.

### SMILES Notation as an Input Tool to Predict Chemical Properties



**Figure 3**  
Demonstration of the use of a phase diagram to identify micelle structures in a stearate stick. Reproduced from Reference 1.

A key assumption in using computer models for predicting chemical properties is the validity of Structure-Activity Relationships (SARs). This allows us to compare a molecule that we don't know about to a similar one with extensive data, a process known as "read-across." We can also raise a red flag about a molecule if we identify a structural group in it that we know is present in a problem molecule. An example of predictive behavior is knowledge of how to design for biodegradation, for example, by having oxygen or an ester linkage built into the structure. Any relationship between a known molecule and an unknown one can provide valuable guidance.

A tool exists which allows us to predict many critical properties of a molecule, even one that has never been made. It is EPI Suite, and it is available free from the EPA.<sup>2</sup> Going back 20 years, computer programs have been available to calculate various properties of molecules, and independent workers

have developed separate modules on areas such as ecological toxicity and dermal permeability. All these programs have been conveniently merged into EPI Suite (Estimation Programs Interface).

To input a specific chemical into the program, the chemical name, CAS number, and, especially, SMILES Notation, is required. SMILES (Simplified Molecular Input Line Entry System) is simply a convention for transforming a chemical structure into a form that can be typed on a key pad. An obvious issue is that a computer does not have a key for a benzene ring. The original SMILES specification was developed at the EPA in the 1980s. In 2006 IUPAC introduced the InChI as a standard for formula representation. SMILES is more intuitive than InChI and also has an extensive range of useful software that accepts its input.

SMILES notation for common chemicals can readily be found by searching the Internet. For establishing SMILES notation for a new molecule there are rules to follow. A simple example is to use upper case for aliphatics, lower case for aromatics, and a number for the beginning and end of a ring. Thus bromobenzene becomes c1ccccc1Br. In aromatic rings, heteroatoms (o, s, and n) are also lower case.

Often, a number of equally valid SMILES strings can be written for a molecule. Ethanol can be CCO, OCC, or C(O)C. Algorithms have been developed that select a single SMILES string for a given molecule out of all the possible alternatives. For propylene glycol the CAS number is 57-55-6 and the SMILES notation is OCC(O)C. Put those in EPI Suite, hit "Calculate," go to "All Results," and pages of data appear. It can be converted to MS Word format by pressing a button. You will find the Henry's Law constant, estimates of solubility, biodegradation, bioaccumulation, and atmospheric oxidation, among other things. If you do the same thing with a new molecule it would give you a big jump on predicting its physical, toxicological, and ecological profile.



**Figure 4**  
EPI Suite opening screen with propylene glycol input.



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The HELP section of EPI Suite provides detailed descriptions of the separate modules and detailed instructions for creating and using SMILES notation. Each section is an education in itself. For example, the BIOWIN component describes the seven models used to predict biodegradation and includes extensive references and a bibliography. Figure 4 shows the opening screen of EPI Suite with the SMILES and CAS number inserted for propylene glycol.

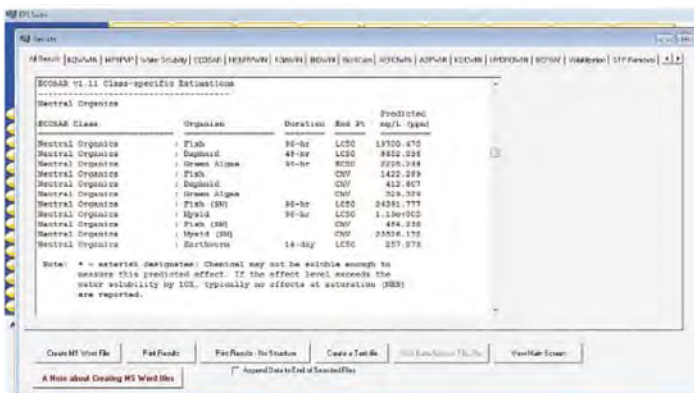


Figure 5  
ECOSAR (Ecological structure activity relationships) for propylene glycol.

Figure 5 shows the calculation for ECOSAR, the Ecological Structure Activity Relationship, which demonstrates the effect of the chemical on a variety of aquatic life forms. Figure 6 illustrates the output for fugacity. Fugacity provides information on where the chemical will partition in the environment, and it is an essential property for determining environmental impact.

Knowledge of fugacity, biodegradation, and aquatic toxicity combine to show a clear picture of the environmental effects of a chemical. If a molecule biodegrades quickly, its negative effects will have less chance to manifest itself. If a material is not water soluble, it will have less chance to kill fish even if it has high aquatic toxicity, since fish are unlikely to be exposed to a significant amount. Thus, the results of EPI Suite and some common sense go a long way towards forming an intelligent profile of a chemical.

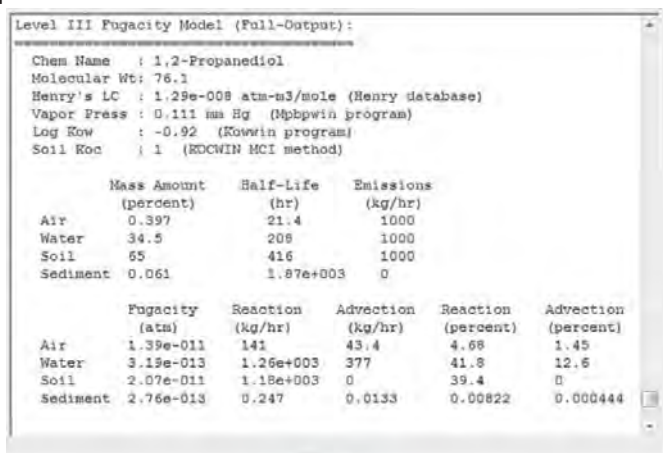


Figure 6  
ECOSAR output for fugacity.

### Decision Tree Reasoning to Establish the Safety of Aroma Chemicals

The RIFM (Research Institute for Fragrance Materials) is responsible for providing the industry with data on fragrance safety. A complete dossier of testing can be done on a molecule for about \$1,000,000. There are over 3,000 materials in the database, so a direct assault on data acquisition would cost over \$3 billion. There must be a better way, and RIFM has been looking for refinements in its methods for many years.

Testing on animals is out of the question, so alternative measures must be taken. We need an approach that is quicker, less expensive, and scientifically beyond reproach. RIFM has just brought this up to date in its new criteria document, with the broad outline launched in December 2014 through a webinar.<sup>3</sup> The criteria paper is still in press at this time.<sup>4</sup> The basic ideas are easy enough for a layman to understand; it actually embraces a common sense approach to the subject. Some key concepts are end points, decision tree, read across, *in silico*, and TTC (Threshold of Toxicological Concern).

Fragrances are complex mixtures of chemicals. Ingredients can be single aroma chemicals or natural oils composed of a large number of chemicals, often in small quantities and varying from batch to batch. Only ingredients, not the total compositions, are tested for safety. When a new fragrance material enters the system, the endpoint is the place where a decision is reached on safety. Endpoints that are established by RIFM for a fragrance material are genotoxicity, repeated dose toxicity, developmental and reproductive toxicity, skin sensitization, photoirritation and photoallergenicity, local respiratory toxicity, and environmental assessment.

A decision tree is a series of questions, which serves as a roadmap through the evaluation process. Figure 7 has a partial, simplified decision tree for the first stage of a fragrance material assessment. At every juncture a question is posed, and either a decision is possible, ending the assessment process, or another step is taken.

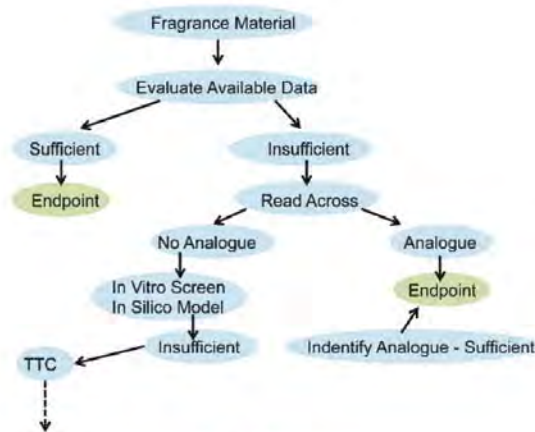


Figure 7  
Fragrance assessment using the decision tree.

It is first necessary to evaluate the existing data. If there is enough, we are done. If not, we proceed to "read across." Is our new material similar to another molecule we know about? If it is similar, and there is adequate data on the other molecule, we are finished. Confidence in using read across depends on the knowledge, experience, and judgment of the toxicologist making the decision.

The next step involves *in vitro* screens or *in silico* methods using predictive toxicology programs. *In silico* is a general term for using computer programs rather than performing experimental work. For toxicology studies, RIFM has access to Derek, MultiCASE, Topcat, and the OECD Toolbox. RIFM has an ongoing commitment to adding new toxicology programs if they prove applicable to the types of questions posed by fragrance chemicals. If this proves sufficient, we are at the endpoint; otherwise we go to the Threshold of Toxicological Concern (TTC). TTC has been developed to handle the thousands of chemicals we can now identify in minute quantities virtually anywhere. It originated in work by the FDA in 1995 for food products and additives. It calculates a safe level for most chemicals, even for most carcinogens, present in all food and ingested over a lifetime. Certain categories like heavy metals and endocrine disruptors are excluded, as no level is deemed safe.

Natural products are an example of compounds we cannot characterize completely, so the TTC is a useful approach to handling all the pesky little chemicals present. No chemical reaction runs to 100% completion, so every synthesized chemical we use has tiny byproducts. A way was desperately needed to deal with all these materials, and TTC is the answer. TTC is fundamentally an approach for prioritizing assessment of chemicals with low-level exposures. Three broad categories of materials are identified, shown in Table 1. The allowed exposure levels for each group are based on the decision tree work of Cramer and are: Cramer Group I – 1800 µg/day, Cramer Group II – 540 µg/day, and Cramer Group III – 90 µg/day.<sup>5</sup>

**Table 1:** Cramer classification scheme.

- Class I: Substances with simple chemical structures and for which efficient modes of metabolism exist, suggesting a low order of oral toxicity.
- Class II: Substances that possess structures that are less innocuous than class I substances, but do not contain structural features suggestive of toxicity like those substances in class III.
- Class III: Substances with chemical structures that permit no strong initial presumption

of safety or may even suggest significant toxicity or have reactive functional groups.

### Concluding Remarks

Graphical tools (e.g., phase diagrams), computer programs (e.g., EPI Suite), and decision trees, such as that used by RIFM, make our work more efficient, cut the time and costs of development or assessment, and allow us to better predict the safety and performance of the products we use. In a world that demands safety to humans and the environment, it cannot be ignored. And, to those developing the new chemicals that are the engines of new technologies, the insight we can gain early in the process is invaluable.

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### About the Author:

Steve Herman is President of Diffusion LLC, a consulting company specializing in regulatory issues, intellectual property, and technology development. He has been an Adjunct Professor in the FDU Cosmetic Science Program since 1993, teaching the Cosmetic Formulation Lab and Perfumery. Steve was a columnist for *GCI Magazine* for 17 years and wrote a book, *Fragrance Applications: A Survival Guide*. His SCC activities include service as Chairman of the NY Chapter in 1992 and 2013, election to Fellow status in 2002, and instructor in the Continuing Education Program.



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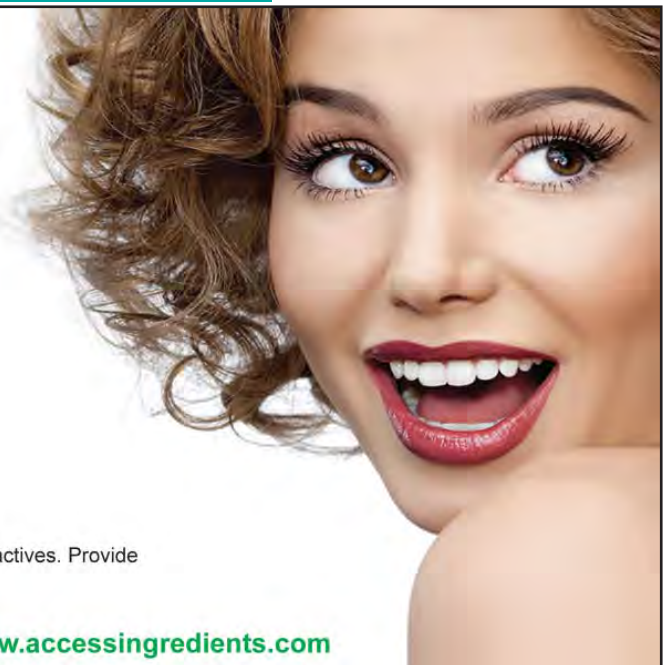


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## Society of Cosmetic Chemists

### President's Report for 2015

The year 2015 is the 70<sup>th</sup> year since the founding of the Society of Cosmetic Chemists. As we pass this milestone a number of things have happened this year. Our objective remains education and our focus clearly on our members.

-The office for the International Federation of the Society of Cosmetic Chemists (IFSCC) will now be housed together with the U.S. National office. This change is exciting for all members, as we believe it will lead to a more globalized perspective for our society. The office of the IFSCC Secretary General is moving from London to New York, we expect the move to be complete by the end of 2015.

- We have finally replaced an antiquated office computer system with a state of the art system. Not only will the membership and registration process be less cumbersome, members will also see a number of new services offered through the system, including items designed for members only, including an online member directory and a virtual library made possible through a collaboration with Allured. Through this program articles will be available for our members.

- We have expanded our program to reach out to universities that have cosmetic science programs by offering a year of free membership to students in those universities. Increasing our commitment to new upcoming members is vital and the SCC recognizes a tremendous opportunity to supplement a university education with some critical continuing education elements to better prepare students to enter our industry.

- We also have established a new program aimed at our younger members, to provide programs in technology and marketing, making use of the valuable assets we have in our Fellows.

- Importantly, we have also become more inclusive by establishing a new classification of Fellow in our society. Until this change we only recognized technical members who have reached a high level of maturity and competence in the cosmetic field. Realizing that there are many in our ranks that have achieved but are not technical, we have created a Fellow in Marketing, which recognizes the many that have reached that high level of maturity in the field, and deserve recognition. We expect to offer programs that deal with marketing topics in the near future.

- Our objective is to provide education and we continued to deliver on this objective in 2015, at both the National and the Chapter level. We've done this with continuing education courses, the National Meeting in December and in the last year a Summit with Cosmetics and Toiletries and a joint meeting with the American Oil Chemists Society. We will seek to further collaborate and develop programs with like-minded organizations to better provide services to our members.

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This year, we have conducted 27 CEP courses -- 5 free chapter events; 5 in-house courses; and 17 courses at the National Office. In addition to this, the SCC sponsored the keynote speaker at this year's C&T Cosmetics Summit held in Philadelphia. Two additional CEP courses were offered in conjunction with this event. Our Chapters have also had great success with their educational programs this year; many of them holding their own Educational Seminars and drawing attendees from Chapters outside of their area.

Membership continues to grow; the latest figures from National are 4,794 members (this is an increase of over 200 members from last year's report).

Our strength is our members. Our society functions because of committed volunteers who share a passion for what we do. It is through the efforts of these volunteers throughout our Society that our society works. I am grateful to all those who volunteer at all levels: the chapter level, running special events, and participating in the numerous programs at a national and international level. For those that volunteer, thanks; for those who have not yet, please do.

I'd like to take this opportunity to thank the 2015 Executive Committee: Debbie Pierce, Peter Tsolis, Amy Marshall and Kelly Dobos; the 2015 Area Directors: Joy Welsh, Akshay Talati, Bart Maxon, Perry Romanowski, Michelle Hines, Liz Streland, Michelle Linscott and Danielle Wheeler for their service to the Society. Thanks also to Roger McMullen, COSA Chair, and the entire committee for their work in assembling this year's December program, and to Barbara Wolf, Mark Chandler and the entire Continuing Education committee for their efforts to ensure that our CEP courses are relevant to today's changing industry. Also, we thank Mindy Goldstein, Editor, and Michael Fevola, Associate Editor, who have put in tireless hours ensuring our Journal maintains our high professional standards. All of the Chapter Chairs and their Boards deserve our gratitude for continuing to deliver education to our membership across the U.S. and Canada.

Last, but certainly not least, the Society could not function without the outstanding efforts of our National Office staff: David Smith, Doreen Scelso, and Colleen Daddino and to welcome two new employees, Latasha Archer and Anjeleta Sookdowar, into our New York office.

It has been my pleasure to serve as President of the Society. Thank you for the opportunity to serve. I wish everyone a safe and Happy Holiday Season, and, finally, would like to remind everyone that the U.S. Society will host the 29<sup>th</sup> IFSCC Congress, scheduled for October 30 – November 2, 2016 at the Dolphin Resort in Orlando, Florida. I believe it will be a great event and I look forward to seeing you all there.

communication. I heard about it approximately two hours after it happened when I went to my dorm room. We had a little ten inch black and white TV and of course for the young people in this industry, I don't mean what color the TV was, I meant the program was broadcasted in black and white.

JL: Yes after reading this article, I think they're getting the idea.

The recollections of Mr. Don Katz!

DK: Hey young man!

JL: Donny, you are the only one that still calls me that, thank you!

DK: That was such a tragic day. I was already a salesperson, years before I started DD Chemical which became DD Chemco. I sold

Flavors and FD&C colors. I remember I was calling on Joe Lowe when the secretary came in and told us the news. She was visibly shaken and we were in total shock! I immediately left and went home to see Judy, my wife of just 3 years. I remember we hugged but didn't say much. We just sat there and watch TV all weekend. It's funny, I have not been asked this nor have I really thought about it much for a while yet when you asked, all these memories came back so vividly.

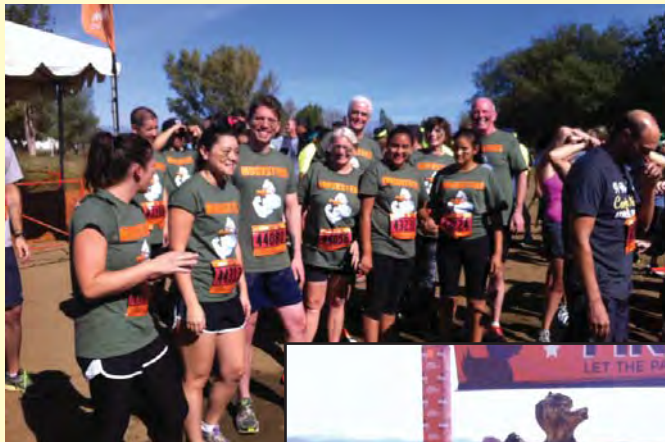
Five future members of the Society of Cosmetic Chemists all in different stages of their lives in 1963 yet with one glaring memory in common. A memory, still fresh, of an event many years ago that ought not, cannot be forgotten.

### Muckfest

Thank you to all SCC Members and their families who participated in the MUCKFEST this year! It was a great event for an amazing cause. Way to make our Chapter proud!!

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- Pamela Walker (*Rita*)
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- Horacio Carberra (*Pacific Coast Chemicals*)
- Tim Morse (*Morse Chemicals*)
- Linda Martinez (*Westwood Laboratories*)



The Society of Cosmetic Chemists' Continuing Education Advisory Committee is delighted to announce that registration is now officially open for the below courses. The SCC is dedicated to providing interactive courses that serve the needs of professionals in our industry. CEP instructors are highly qualified industry experts. You will come away from these small, interactive courses having gained the knowledge needed to advance your professional development. To register or to learn more please visit [www.scconline.org](http://www.scconline.org). If you have questions please call 212-668-1500 or email [dscelso@scconline.org](mailto:dscelso@scconline.org).

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August 24 – 25, 2015

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November 6, 2015

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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.**
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- **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.**

You can now renew online at [www.sconline.org](http://www.sconline.org). 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](mailto:tmlesko@presperse.com) with any changes.

### *In Memoriam*

#### **REMEMBERING DON BEWLEY**

With heavy hearts we inform you of the recent passing of Don Bewley, co-founder and leader of Eufora International (Vista, CA).

"He and (his wife) Beth founded Eufora more than a decade ago with the mission of serving independent salons" and believed "that greater success is possible through the right education and a committed manufacturer who is dedicated to more than just selling products."

Don was loved and admired by all he crossed paths with; an inspirational legacy not soon forgotten. He leaves behind his wife, Beth; two sons, Sean and Sam; and his daughter Brynn.



Don Bewley

Don Bewley and his wife, Beth Bewley

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