

THE COSMEGRAM IS GOING GREEN!

February 2017

Volume 47 | Issue 2

EDUCATIONAL HOUR



HEALTH AND SAFETY CHALLENGES IN PERSONAL CARE PRODUCTS

Mary Redmond
 ANGUS Chemical Company

Each day, global impact seems to make the world smaller and smaller. Personal Care companies wanting to grow frequently look to expand into new markets. In order to do so, companies need to be compliant across a vast array of laws and restrictions. While the European Union often leads the way in terms of regulations and policies regarding personal care ingredients, many emerging nations are adding their own variations.

...continued on page 3

DINNER HOUR



MOISTURIZATION THROUGH THE AGES

Geoffrey Brooks
 Ideas4Cosmetics and Geoffrey Brooks Consultants, LLC.

Geoff Brooks will discuss some of the highlights on the important dynamics of how water works within the skin and hair, the relation to water in the environment, and what the cosmetic industry has done to enhance the skin's appearance by topically applying products. Up to 60% of the adult body is water, and the skin alone contains 64% water. We are terrestrial beings living in a "very thin" atmosphere, and globally this contains only 0.04% of the worlds fresh water. Not much!!!

...continued on page 3

MEETING OVERVIEW

Date: Tuesday - February 28, 2017
Location: Universal Sheraton
Menu: New York Steak, Salmon or Eggplant Molanzana

RESERVE NOW ▶

Reservation Deadline: 5:00 pm Friday - February 24, 2017
Reservation Link: www.caliscc.org/events

5:00 pm: Educational Hour
6:00 pm: Social Hour
6:30 pm: Dinner Hour and Speaker
[Meeting Details on Page 2](#)

Prices increase after **Reservation Deadline**
 No refunds after **Reservation Deadline**
 Walk-in space is not guaranteed

MEETING DETAILS

LOCATION:

Universal Sheraton
333 Universal Hollywood Dr.
Universal City, CA 91608
(818) 980-1212

COSTS:

- Members with reservations (\$40)
- Members without reservations (\$65)
- Non-members with reservations (\$65)
- Non-members without reservations (\$70)
- Emeritus members with reservations (FREE)
- Emeritus Members without reservations (\$65)

MENU:

Each meal choice comes with heart of bibb which includes asian pear, tomatoes, candied walnuts, blue cheese, sun-dried, cherries with champagne shallot vinaigrette.

- Blue cheese crusted new york steak with madeira sun-dried cherry sauce
- Focaccia crusted salmon with pesto creme
- Vegetarian eggplant melanzana with roasted herb tomato coulis

RESERVATIONS:

The reservation pricing deadline is at 5pm on the Friday before the monthly meeting. Non-reservation pricing must be paid after this deadline. Reservations are not refundable after the reservation deadline. Please register and pay online at www.caliscc.org or call Sara Benoit at 714-521-5222 ext.141. Call-in registrations must be guaranteed with credit card and will be charged for no-show.

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2017 CALENDAR OF EVENTS

- Feb 11 : Valentine's Dinner Dance (The Disneyland Hotel, Anaheim, CA)
- Feb 28 : Monthly Meeting (Sheraton Universal, Universal City, CA)
- Mar 28 : Monthly Meeting (Manhattan Beach Marriott, Manhattan Beach, CA)
- Apr 25 : Monthly Meeting (Manhattan Beach Marriott, Manhattan Beach, CA)

EDUCATIONAL HOUR *...continued from page 1*

Mary Redmond will be presenting a regulatory overview of amino alcohol chemistries that can keep formulators 'above-the-curve; on these evolving health and safety standards. Raising the bar on non-irritating, hypoallergenic, and non-carcinogenic properties is demanded by consumers, therefore pushing formulators to re-optimize all performance parameters throughout the lifecycle of a product. In addition to global compliancy, Mary Redmond will discuss chemistries that offer molecular engineering to improve performance through multi-functional properties to make your best formulation perform even better.

ABOUT THE SPEAKER



Mary Redmond joined ANGUS Chemical Company in April 2015 and currently serves as Senior Applications Specialist for the company's Home and Personal Care, and Paints and Coatings businesses. Redmond has 28-plus years of cross-functional experience in R&D, technical service, and technical sales supporting development of market-driven product innovations, plant engineering for inventory control and high yield through-put, and formulation and process optimization. Prior to joining ANGUS, Redmond served in various roles of increasing responsibility at True Value Manufacturing, AkzoNobel-Sikens, and McWhorter Technologies (now Polynt).

Redmond has a deep understanding of the of environmental and health aspects that impact formulators and manufacturers in the Personal Care and Paints and Coatings industries. She works closely with ANGUS' five regional Customer Applications Centers (CAC) around the world to link customer innovation to the formulating, regulatory, consumer and raw material trends that shape today's markets, She has co-authored numerous papers, including several renditions of "Health and Safety Challenges in Personal Care Products," which has been presented at the 2016 Australian Society for Cosmetic Chemists Conference, 2016 in-cosmetics® Asia conference, and the 2015 Russian Perfumery Cosmetics Association Conference in Moscow.

Mary holds a bachelor's degree in chemistry from Elmhurst College in Illinois, and has completed additional course work in biology, microbiology, and polymer chemistry. She is a member of numerous technical and trade associations and is based in the Chicagoland area at ANGUS' headquarters in Buffalo Grove, Illinois.

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DINNER HOUR *...continued from page 1*

It is measured by humidity - at 100% it is saturated (rain) and your skin and hair are moisturized! Under desert conditions - at 10% - your skin and hair are dried out! External environmental moisture is very important. Living at higher altitudes further challenges our skin to "resist" the higher levels of Light, UV and IR radiation reaching the earth's surface - making effective UVB and UVA daily protection essential.

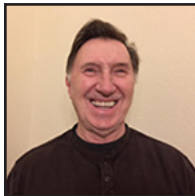
A recent article (Risks and Myths of Dehydration) in the NYTimes (May 2016) by Jane Brody commented on the importance of using a topically applied moisturizer to mediate dry skin conditions. Whilst Mr. Brooks was working for Beecham (UK) on Brylcreem, 50 years ago, data was generated to prove that it was the best moisturizing hair cream! The effect of the topical application water on the skin and hair is at best transitory, the improved appearance of skin, and a temporary hair set are quickly lost. Moisturization was one claim we were allowed

to make for our products - and - perhaps the only real claim we are allowed to make now.

Temporary relief of dry skin is not a drug! Science over the years has provided a good understanding on how best to moisturize the skin, how the skin uses moisture, and the cells regulate it to provide optimal skin homeostasis. Utilizing a good understanding of the functioning of the skin's own master regulators (cytokines), it is possible to design analogs which will help optimize this process by up-regulating aquaporins (cells own water channeling/optimization mechanism) and other extra-cellular matrix components. The aim is to produce products to effectively provide the consumer with greater satisfaction. If you don't look good in the mirror, the cosmetic industry is failing to help you skin and hair adapt and be at its best.

ABOUT THE SPEAKER

Geoffrey Brooks is the President of Ideas4Cosmetics and Geoffrey Brooks Consultants, LLC. He is currently evaluating new anti-aging ingredients and strategies for both cosmetic external applications and nutraceutical healthy food applications. Mr.



Brooks is the Scientific Advisor to Botaneco Inc on natural seed extracts - oil bodies and storage proteins for cosmetics and nutrition. His past work includes Solazyme, Arch Chemicals, Croda, Beecham Group and Brooks Industries, where he served as the Chief Technical Officer. He is a graduate of Northern Polytechnic, University of London, UK with a B.Sc. Chemistry & Zoology. He is a member of the Society of Cosmetic Chemists, Society of Cosmetic Scientists, American Chemical Society, and American Association for the Advancement of Science.

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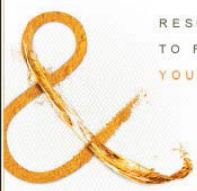


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TECHNICAL ARTICLE : NANOTECHNOLOGY IN COSMETICS

Many scientists associate the beginning of nanotechnology with the inspiring speech given by the physicist and Nobel laureate Richard P. Feynman in 1959 at the American Physical Society annual meeting held at the California Institute of Technology.¹ Professor Feynman challenged a new generation of scientists to discover a “staggeringly small world” of solid state physics that would have widespread applications and change the technology landscape. More than 60 years later, nanotechnology has become an integral component of our everyday lives. Who can imagine life without the selection of electronic devices we have at our disposal? Moreover, many advances in biotechnology and medicine have been possible due to nanotechnology.

Nanotechnology is the study of small things. It can be the fabrication, application, manipulation, or measurement of objects on the nanoscale. It is difficult to imagine, but one nanometer is equal to a billionth of a meter. To give us some perspective, an average hair fiber is 70,000 nm (70 μm) in diameter. Nanoparticles are often defined as particles with a diameter greater than 1 nm but less than 100 nm. However, this definition is often extended to include particles slightly larger, and many nanoparticles are on the order of tens or hundreds of nanometers in size. It was not until the 1980s that we really began to measure and grasp the concept of the nanoworld. In a large part, this was due to the discovery of the scanning tunneling and atomic force microscopes, which allowed us to measure and image objects from the nanoscale down to atomic resolution.

The world of cosmetics is no stranger to nanotechnology. In the last ten to fifteen years there has been a flurry of activity in the development of cosmetic technology based on nanoscience.²⁻⁵ In fact, L'Oréal ranks 6th in the United States in terms of the number of nanotechnology patents filed by a company.² A number of other cosmetic companies, including Procter & Gamble and Henkel, also produce a lot of nanotechnology intellectual property.³ In the cosmetics arena, the largest application areas for nanotechnology are centered on sunscreen or delivery system technology.

Most of the efforts in sunscreen technology have been to reduce the size of titanium dioxide and zinc oxide particles to make sunscreen formulas more transparent during application on the skin. On the other hand, nanotechnology delivery systems aim to supply key ingredients to the skin using a variety of different vesicle as well as molecular scaffold and macromolecular structures. Some of these structures include cubosomes, dendrimers, fullerenes, hydrogels, liposomes, nanocrystals, nanocapsules, nanoemulsions, solid-lipid nanoparticles, nanogold particles, nanosilver particles, niosomes, and transfersomes.^{2,3} Table 1 includes a short description of each of these nanostructures.

Table 1. Nanostructures with potential use in cosmetic products. For a more comprehensive description, the reader is referred to References 2 and 3.

NANOSTRUCTURE	DESCRIPTION
Cubosomes	Self-assembled liquid crystalline structures. They are made from the bicontinuous cubic liquid crystalline phase of surfactants. ⁶
Dendrimers	Macromolecules that are highly branched and have well defined structure. Many of the external moieties can be functionalized. ⁷
Fullerenes	Fullerenes are highly conjugated C60 hollow molecular spheres. They have free radical scavenging properties, acting as a free radical sponge. ⁸
Hydrogels	A hydrophilic polymeric gel network structure capable of holding large quantities of water. ⁹
Liposomes	Spherical shaped vesicles containing phospholipid bilayers comprising a hydrophobic shell with an aqueous interior capable of delivering active ingredients. ¹⁰
Nanocrystals	Nanosized crystalline materials that have unique physicochemical properties. ¹¹
Nanocapsules	Small nanoparticles consisting of a polymeric shell surrounding a solid or liquid interior allowing for the delivery of active ingredients. ¹²
Nanoemulsions	Emulsions (liquid-in-liquid dispersions) with a droplet size on the order of 100 nm. ¹³
Solid-lipid nanoparticles	Lipid droplets that are in the solid state (a solid core) and stabilized by surfactants and emulsifiers; used to deliver molecules. ^{14,15}
Nanogold/nanosilver particles	Investigations of nanoparticles of gold and silver have been carried out to understate their penetration capabilities into different layers of the skin for biomedical applications. In addition, this technology is being exploited for its possible antibacterial properties in deodorant applications. ^{3,16}
Niosomes	Vesicles—similar to liposomes—made of surfactants and cholesterol. Niosomes have greater permeation capabilities and are more stable than liposomes. ¹⁷
Transfersomes	Similar to niosomes and liposomes, transfersomes are lipid vesicles with an aqueous core. The transfersome membrane is more flexible than those found in other lipid vesicles. ¹⁸

The use of nanotechnology in cosmetics has not been without scrutiny. There are considerable safety concerns since there is still insufficient toxicological data on nanostructures. Regardless, it is still uncertain to what extent nanomaterials are able to penetrate into the viable layers of the epidermis.⁴ A more grave concern is if the penetration of such materials reaches the vascular network in the dermis and can be systemically distributed throughout the body. For example, a number of studies demonstrate that nanoparticles TiO₂ and ZnO do not pose a significant risk of penetration into the deeper layers of the skin.¹⁹⁻²¹ On the other hand, many other nanomaterials are designed with the idea in mind that they could serve as delivery vehicles and provide penetration of active ingredients. These types of materials are usually designed with lipid components that allow for incorporation into the biological components of skin, specifically the lipid lamellae phase of the stratum corneum.

This article originally appeared in the online magazine, TheCosmeticChemist.com. Reprinted with permission from The Cosmetic Chemist LLC. Copyright (2016). The Cosmetic Chemist is a dynamic online resource dedicated to providing current and historical topics of interest to personal care scientists in both industrial and academic forums. The material published by The Cosmetic Chemist is contributed by highly recognized scientists, and is of interest to a wide audience, ranging from those working in dermatological research to formulators of finished products. Much of the content also draws from research in areas such as materials and colloid science, as well as optics, demonstrating the application of work in these areas to challenges facing the cosmetic chemist. The Cosmetic Chemist strives to be a central resource in cosmetic chemistry, publishing innovative articles and multimedia resources in an accurate and concise manner that is entertaining to our readers. The Cosmetic Chemist also aspires to instill social awareness about cosmetic science and technology.

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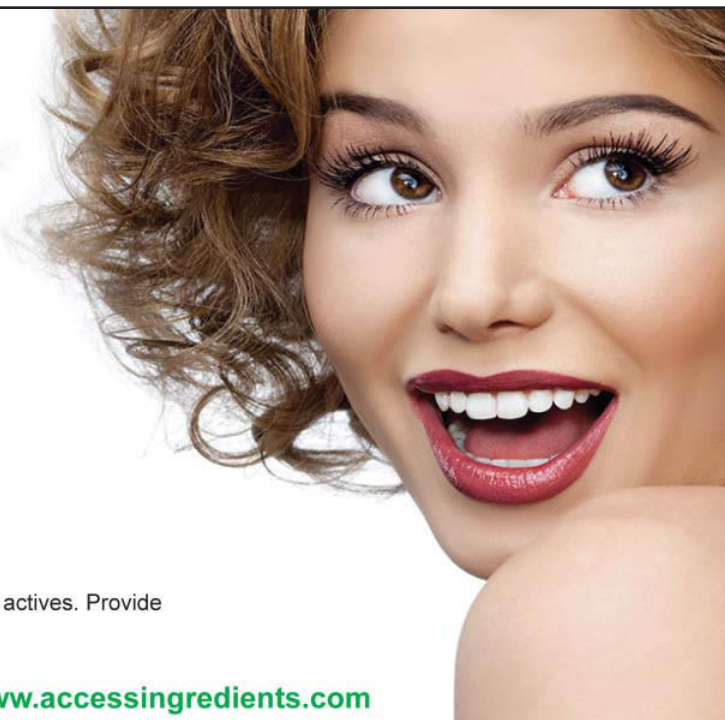
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2017 Society of Cosmetic Chemists Queen of Hearts Dinner Dance

Dear Supplier,

The California Chapter of the SCC is pleased to announce that its Queen of Hearts Valentines Day Dinner Dance will be held on February 11, 2017 at the Disneyland Hotel in Anaheim. We look forward to a fun filled evening!

We have new and exciting features planned for this year's event. Donors have the chance to sponsor a unique feature of the evening for all to enjoy. Recognition of this sponsorship will be prominently displayed at this feature. Donors also have the chance to contribute to the event general fund with platinum, gold, silver and bronze donations as has been done in the past. All donors will receive preferred seating based on their level of contribution. Their company names will also be prominently displayed during the event and in the SCC newsletter.

The participation of our members and suppliers is greatly needed to ensure the success of this event. Your generous contribution would be most appreciated. If you would like to support the 2017 SCC Queen of Hearts Valentines Day Dinner Dance, please complete the form on the following page. Thank you for your support. We look forward to seeing all of you in February!

Best regards,

Deborah Pierce Esq

Deborah Pierce Esq
2017 SCC Dinner Dance Chair

Marla Palumbo

Marla Palumbo
2017 Sponsorship Coordinator

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

Introducing the Caterpillar Room –
child care for those attending the SCC Dinner Dance!



This year we are pleased to offer a Children's Dinner Dance and child care provided by LA Wedding Sitter. They provide a complete party on-site for children while the adults enjoy their festivities. Now parents can be comfortable and relaxed while attending the Dinner Dance knowing their children are nearby and in good hands.

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Names and Ages of Little Guests: example Luna (7) & Lucas (5) Flores

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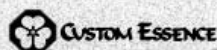


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HISTORIAN COLUMN : REFLECTING ON THE CALI SCC DINNER DANCE

Hayley Hoffman, Kinetik Technologies

The Cali SCC Dinner Dance or Cosmetic Adult Prom is soon to come, so why not take a look at how this mammoth event for groovy, un-groovy or want to be groovy tradition came to its glorious existence, what happens there and why go.

The first Dinner Dance to took place as a Valentine's Dance sometime in the 80's or maybe earlier. (Would have loved to seen the poofy sleeves and hair in those days!)

Since then we have spread our science groove all over the Southern California region for 30+ years at different times of the year, but typically the in late Winter or Spring. Our chapter is joined by the Southwest SCC and NY SCC Chapters in hosting an annual dinner dance. Only 3 out of about 24 chapters in the Society have such a spectacular.

Some fun activities that have taken place during the evening include:

- Dancing
- Casino night
- Tarot Card Reading
- Characture artist
- Photo Booth
- Karaoke - the after party
- Prizes
- I hear this year we are having BINGO to add to the mix!



Over the years the size has grown immensely, so finding a location to house 800+ attendees can be challenging. Every year with dedicated volunteers and generous donations, this anticipated night serves as an annual staple to create fun memories and good times. Maybe one of your reading this would like to volunteer next year?!

So, if prom did not work out so well in your youth, maybe you did not have prom, or if you are just looking to make some great memories, then this is a perfect night every year to do it up, make it special and have fun. Look forward to seeing you all at this year's Cali SCC Dinner Dance at the Disney Land Hotel on Saturday February 11th! I'll be wearing a prom dress...

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WEBSITE STATISTICS

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Since our website redesign in 2014, we've been looking for other ways to go green. Before the *Cosmegram* went digital in January 2017, we looked at our website traffic in 2016 to see just how many people visit caliscc.org. Take a look!

2016

by the
numbers

*not to scale



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COSMEGRAM

TOP 10 ISSUES

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APR	FEB
16	16
MAR	SEP
16	16
MAR	NOV
14	12
JAN	FEB
15	15

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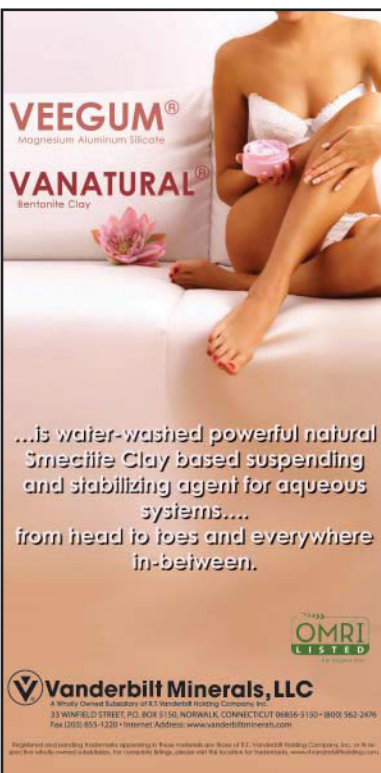
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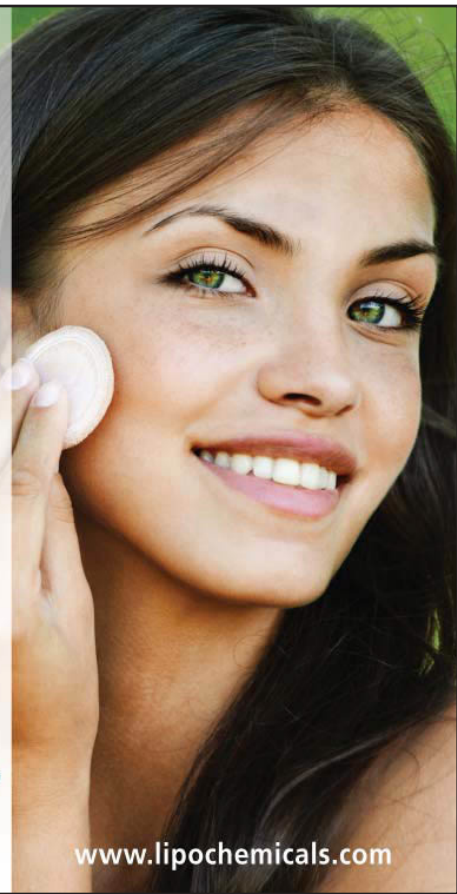
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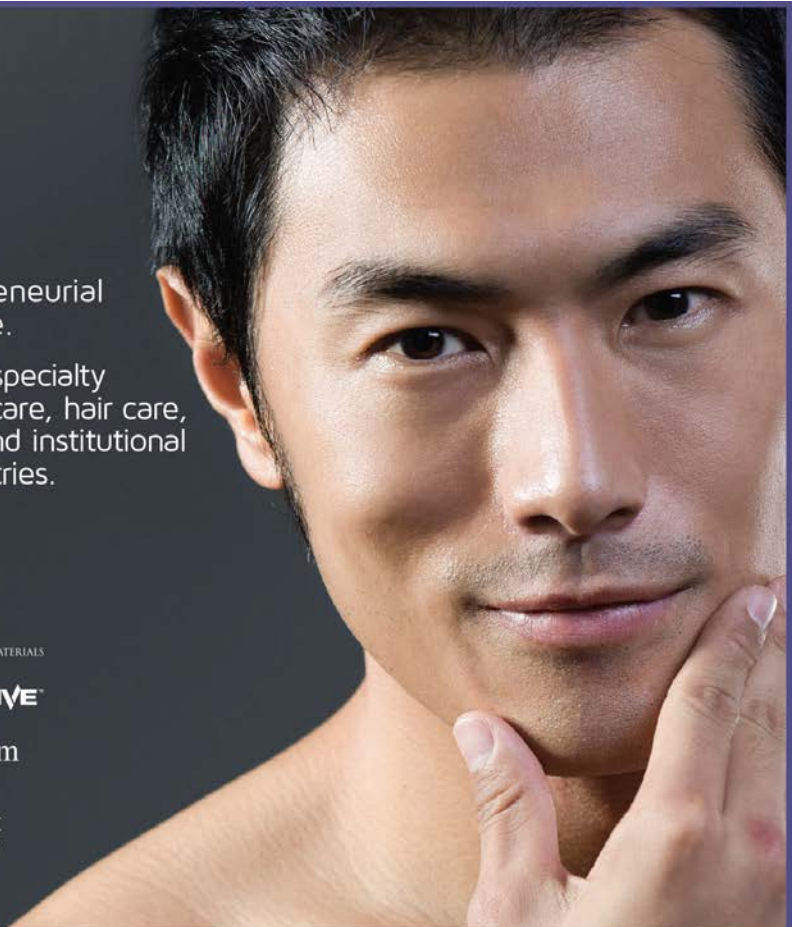
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