

COSMEGRAM

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society of
cosmetic chemists
CALIFORNIA

EDUCATIONAL HOUR



APPLICATION OF NOVEL SODIUM HYALURONATE IN PERSONAL CARE

Dr. Giuseppe Calloni
Vice President, Bloomage Biotech USA, Inc.

Hyaluronic acid (HA) was first discovered in 1934 from a cow's vitreous body. It was discovered that HA plays a crucial role in cell metabolism and physiological processes which lead to tissue repair. In the 1970s, HA was first applied in intra-articular injection and eye surgery then used as dermal filler in 1980s, and in the beginning of 1990s, added to personal care products.

...continued on page 3

DINNER HOUR



A COSMETIC CHEMISTS GUIDE TO CLEAN BEAUTY

Perry Romanowski
Vice President, Element 44 Inc.

Clean Beauty has become a popular marketing positioning for many brands. What originally started in the food industry, it has even over taken natural in terms of popularity among product marketers. Clean beauty offers a number of formulating advantages over natural beauty. In this talk we will cover the development of Clean Beauty, what it means and how cosmetic formulators need to adapt to formulate for the clean beauty consumer.

...continued on page 3

MEETING OVERVIEW

Date: Tuesday - Sept 24th, 2019
Location: Avenue of the Arts Hotel
Menu: Herb Crusted Breast of Chickent, Grilled
Top Sirloin, Wild Mushroom Ravioli

RESERVE NOW ▶

Reservation Deadline: 5:00 pm Friday - Sept 20th, 2019
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:

Avenue of the Arts Hotel
3350 Avenue of Arts
Costa Mesa, CA 92626
(714) 751-5100

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:

Herb Crusted Breast of Chicken

Sautéed Fingerling Potatoes, Roasted Baby Vegetables, Herb Oil, Fennel and Orange Reduction

Grilled Top Sirloin

Chive and Cheddar Twice Baked Potato, Roasted Shallots and Baby Carrots, Fresh Herbs, Red Wine Demi

Vegetarian - Wild Mushroom Ravioli

Butternut Squash Puree, Herb Salad and Sage Brown Butter Emulsion

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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EDUCATIONAL HOUR *...continued from page 1*

Initially, HA was used in personal care for its' moisturizing effect. Different molecular weight HAs have different physical characteristics and different areas of use. As the research on HA progressed, additional properties of HA and new derivatives were discovered that have unique activity on the skin.

Hyaluronic Acid (HA) is a linear polysaccharide with repeating disaccharides. Standard HA has a molecular weight of 200kDa to 4Million Da. One of the first discoveries was to use chemical or enzymatic degradation technology to produce HA Oligomers (Extremely low molecular weight, Mw \leq 10k Da). This technology has progressed to now create a less than 5kDa product. These Oligomer products have very different activity than standard HA.

In addition to the small Oligomers, researchers have also created larger HA polymers using cross-linking technology to produce very different activity. In the recent years, new derivatives of HA have been researched that add a lipophilic group to increase skin affinity; combine HA with other molecules to create a synergistic effect to improve skin color uniformity, skin construction and moisturization; create an oil-dispersible format for use in color cosmetics and anhydrous formulas; create a substantive HA for rinse-off products. Finally, some are claiming to have created a "plant HA." All these options for HA can create confusion for product development and the chemist to know which product to use to get the desired results. This information will help to make the best, well-informed choice. HA's are NOT all the same.

ABOUT THE SPEAKER



Dr. Giuseppe Calloni is Vice President of Bloomage Biotech USA, Inc. a part of Bloomage Biotechnology Corporation Limited a worldwide leader in fermented Sodium Hyaluronate, Hyaluronic Acid and bioactive ingredients for personal care, food supplement and pharmaceutical industries. He is responsible for market development and growth throughout North, Central and South America.

Dr. Calloni received a doctorate in Atomic and Molecular Physics from University of Milan and completed additional studies in Physical Chemistry of Colloids and Interfaces at the University of Bristol, UK. He began his career in colloid chemistry in oilfield production. He moved to the personal care industry with Sasol as manager of R&D providing technical assistance to key accounts worldwide. In 2000 he moved to Res Pharma in Italy and was in charge of international development, focusing on North America and Asia. In 2003 he managed the European sales network for Rhodia (now part of Solvay) and in 2005 was co-founder and VP of Sales for Biophil Suisse (now Levhoss) manufacturing specialty ingredients for personal care and skin care. It is here that he worked with sodium hyaluronate from Freda

(later to become Bloomage Freda). In 2009 he joined Induchem AG (now part of Givaudan Active Beauty) as Senior VP responsible for global marketing and sales. In 2012 he moved his family to the US and was a partner in Freedom Actives focusing on specialized ingredients for the cosmetic/personal care industry.

In 2014 Dr. Calloni became the Vice President of Bloomage Freda Biopharm USA, establishing their US office and sales structure. Dr. Calloni is author and co-author of over 20 articles from colloid chemistry to personal care/cosmetic chemistry. An interesting fact about Dr. Calloni. Due to his expertise in colloid chemistry, from 1997-1999 he was honored and privileged to head the technical team restoring the façade of St. Peter Cathedral at the Vatican in Rome. Here he was an expert in Geo Radar analysis, Infra-Red analysis and colloid chemistry.

DINNER HOUR *...continued from page 1*

ABOUT THE SPEAKER



Perry Romanowski is an independent cosmetic chemist who has spent the past 25 years developing products in the personal care and cosmetic industry. He has worked on both hair and skin care products but primarily focusing on hair. He is currently vice president of Element 44 Inc which specialized in science education. In 2014, Romanowski created the Practical Cosmetic Formulating online training program to provide cosmetic chemists continuing education across a broad range of formula categories. He served as the 2018 President of the Society of Cosmetic Chemists (SCC).

Previously, Romanowski worked for Alberto Culver serving as a senior project leader for hair care innovation. Additionally, he has made appearances on popular TV shows including the Dr. Oz show and the Rachel Ray show.

Romanowski received his B.S. in Chemistry from DePaul University and also studied Biochemistry. He has written and edited numerous articles and books, taught the SCC's Beginning Cosmetic Chemistry continuing education class, and developed various websites. In addition, he provides consulting services for cosmetic formulating, testing and Internet solutions; he can be reached through his website, <http://chemistscorner.com>

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In-House CEP Courses Available

In-House Courses are highly-personalized courses brought to companies to address challenges or areas of need. These courses, taught by knowledge experts, provide professionals with an up-to-date cosmetic science education. Recent In-House Courses have been organized for **Benefit Cosmetics, Mary Kay, Bayer**, the **FDA** and others.

Companies interested in providing in-depth technical information to their employees can contract an education day in a location of their choosing.

- ▶ **SOCIETY** covers the costs of booking the instructor and all of the instructor's traveling expenses (including hotel, flight, car, etc.)
- ▶ **COURSES** can be scheduled for 1 or 2 days on any topic of particular interest to the company
- ▶ **COMPANIES** can choose the instructor if they seek a specific knowledge expert

Current courses available include:

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Color	Molecular Biology & Gene Expression	Color & Make-Up
GMPS For Cosmetics	Phytochemistry 101 For Cosmetic Chemists	Surfactants
Cosmetic Formulations	cGMPS For Cosmetics and Otc's	Cosmetic Raw Materials
Regulatory Update	Practical Basic & Theory in Emulsion Technology	Fragrance as A Science
Beginning Cosmetic Chemistry	Cosmetic Chemists Guide to Product Development	Silicone Chemistry
Basic Hair Science	Sustainable Cosmetic Product Development	<i>and more!</i>

To reserve a course for your team,
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CALI SCC MONTHLY MEETING : MAY 2019



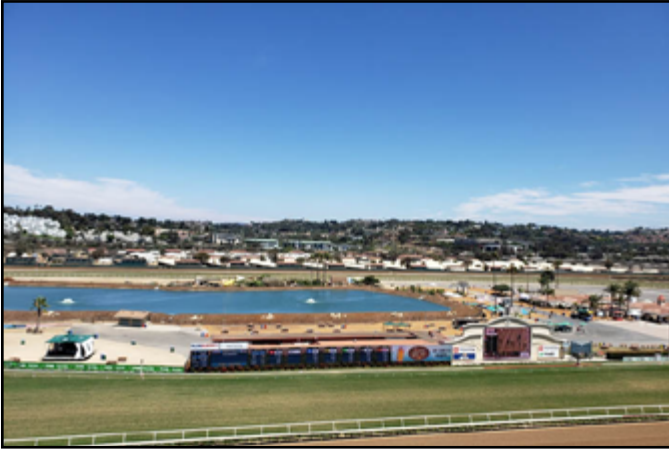
CALI SCC MONTHLY MEETING : JUNE 2019



CALI SCC MONTHLY MEETING : JUNE 2019



2019 CALI SCC SUMMER EVENT



2019 CALI SCC SUMMER EVENT



Thanks!

THANK YOU TO EVERYONE WHO CAME TO OUR SUMMER EVENT AT THE DEL MAR RACE TRACK! IT WAS SUNDAY AUGUST 18TH AND THE DAY WAS JUST PERFECT. WE HAD 2 SPONSORS WITH GIFT CARDS: MICRO CONNECTIONS 5 - \$200 NORDSTROMS GIFT CARDS AND CENTERCHEM WITH A \$100 GIFT CARD. THAT TOPPED OFF OUR PRIVATE EVENT IN THE SKY ROOM WHICH INCLUDED A GREAT LUNCH AND OUR OWN BETTING AREA!



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CALI SCC ELECTIONS : CHAIR ELECT CANDIDATE(S)

NAME:

Ryan Kudla

CURRENTLY:

Senior Technical Manager, Paklab

EDUCATIONAL BACKGROUND:

- B.S. in Chemistry from Cal Poly Pomona
- Ph.D. in Physical Chemistry from UCR

CHAPTER ACTIVITIES:

- Co-Chair Educational Hour - 2019

PUBLICATIONS:

- "Anion stripping as a general method to create cationic porous framework with mobile anions"
- "Benchmark fragment-based ^1H , ^{13}C , ^{15}N and ^{17}O chemical shift predictions in molecular crystals"
- "NMR crystallography of a carbanionic intermediate in tryptophan synthase: chemical structure, tautomerization, and reaction specificity"
- "Proton-bound dimers of 1-methylcytosine and its derivatives: vibrational and NMR spectroscopy"
- "Crystal structure of the meta-stable intermediate in the photomechanical, crystal-to-crystal reaction of 9-tert-butyl anthracene ester"
- "Solid-State NMR Spectroscopy, Anisotropic Interactions, and the Elucidation of Molecular Structure"

STATEMENT OF GOALS:

I want to work together with all people and generations in the SCC to help us continue to realize our mission of providing a place for cosmetics chemist to develop through scientific knowledge. I want to draw on the knowledge base of chemist who have been part of the society for years as well as try and incorporate ideas from the new generation to create an environment that fosters the free exchange of knowledge and ideas. I know there will be growing pains in all of it and some ideas may not always work, but I will work closely with the Chair to first learn from, then help guide, and eventually realize new heights for the SCC.

CALI SCC ELECTIONS : TREASURER ELECT CANDIDATE(S)

NAME:

Jennifer C Donahue

CURRENTLY:

Key Account Manager, Croda Inc.

PRIOR EXPERIENCE:

- Marketing Manager, Croda Inc.
- Account Manager, Lipo Chemicals
- Sales Representative, Collaborative Labs
- Sr. Technician, Johnson & Johnson

EDUCATIONAL BACKGROUND:

- BA in Chemistry, Cornell University, 1997
- MBA, Rutgers University, 2007

CHAPTER ACTIVITIES:

- CaliSCC Treasurer 2018/2019
- NYSCC Secretary
- NYSCC Suppliers Day Chair

PUBLICATIONS:

- Jennifer Donahue; 6 Innovative Emerging Cosmetic Trends, Global Cosmetic Industry (GCI), Nov 2016
- Jennifer Donahue; 4 Reasons Multicultural Consumers are Driving Hair Care, GCI, Oct 2016
- Jennifer Donahue; Making Personal Care Greener, GCI, June 2016
- Jennifer Donahue & Denise Costrini; Applied Consumer Insights in Acne and Conditioners, GCI, Oct 2015
- Jennifer Donahue; Aspirational Consumers and the Environment, GCI, July/Aug 2015
- Chris Dederen, Jennifer Donahue and Cornelis Verboom; Visualizing the Impact of Emulsifiers on Emulsion Perception, Cosmetics & Toiletries; 2013; 128 (12)
- Melissa M. Wagenaar, Jennifer Corwin, Gary Strobel, and Jon Clardy; Three New Cytochalasins Produced by an Endophytic Fungus in the Genus Rhinocladiella, Journal of Natural Products; 2000; 63(12); 1692-1695.

PRESENTATIONS:

- TechConnect 2018 Keynote Speaker, May 2018: "Formulating sustainable products for today's consumer"
- Michigan SCC Chapter meeting, May 2017: "The ECO process: Promoting Sustainable Choices while delivering Performance Consumers expect"
- Fashion Institute of Technology Sustainability Forum, March 2017: Panel speaker on the "Role of Sustainability and Fair Trade in the Beauty Industry"
- Rutgers University Center for Dermal Research, Sept 2015: "Sensory Mapping Methodology Detects the Unexpected Effect of Emulsifiers in Emulsions"
- ICIS World Surfactant Conference, May 2014: "The impact of consumer preferences in skin care on raw materials- Sensification®"
- In-Cosmetics Asia, November 2012: "Experience Sensification®- The Secret Touch of Emulsifiers"
- Patents/awards: Best Blitz Presentation IFSCC, November 2016; "The ECO Process: Performance or Sustainability? The Need to Choose is Over"

STATEMENT OF GOALS:

As Chapter Treasurer and Treasurer-Elect, I will uphold our chapters by-laws and lead chapter officers, and well as our chapter bookkeeper, with managing the chapter finances. I look forward to working as part of the executive board to make sure all chapter expenditures are in line with the chapter's mission and spent in accordance with the chapter by-laws. I will work with National, submitting reports on time as required and learning best practices from the other chapters' financial teams. I will also work with our accountant to make sure all tax related forms are submitted on time to keep the Chapter in good standing with the State of California.

CALI SCC ELECTIONS : SECRETARY ELECT CANDIDATE(S)

NAME:

Mason Montgomery

CURRENTLY:

Scientist, Acquired Brands (Dollar Shave Club), Unilever

PRIOR:

Associate Scientist, Global Skin Care, Unilever Trumbull

EDUCATIONAL BACKGROUND:

- Cornell University, B.S., Chemical Engineering

STATEMENT OF GOALS:

Part of what has always appealed to me about the personal care industry isn't just the science- it's also the creativity, the lifelong opportunities for learning, and the wide range of talented people who form the community as we know it. To me, SCC is the perfect organization for all these things to intersect, and despite being one of the newer members of the organization, I am very excited to bring my passion and energy to SCC in whatever ways I can to contribute to our mission.

If I have the honor of serving as the Secretary for the California Chapter, I will give a level of dedication and involvement that I hope will truly help to accomplish and surpass our goals for 2020. In addition to the logging of meeting discussions, action items, and communications that come standard with the role, I will bring to the table a fresh perspective, passion, and creative ideas to try to help support our chapter towards any accomplishments we set our sights on.

In my career so far, I've tried to be the team member who is always first to lend a hand in whatever role or capacity I'm able; in SCC, I hope to bring this same spirit and attitude to further the chapter growth, member education, and overall mission however I can. It would be my pleasure to serve as Secretary for the California SCC if elected, and thank you for your consideration.

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Neurometer CPT/C A neurosensory threshold testing system for objective assessment of skin sensitivity, skin irritation, and itch propensity. Ideal for documenting subtle changes for claims support.

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Suppliers' Day 2019

October 2-3, 2019 • Long Beach Convention Center, California

West Coast Largest Personal Care Industry Tradeshow

The Society of Cosmetic Chemists organization is dedicated to the advancement of cosmetic science, the Society strives to increase and disseminate scientific information. Our mission is to further the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetic and toiletries industry.

The California Chapter Suppliers' Day 2019 will host over 350 booths with global exhibitors to present new innovative ingredients and solutions. This highly anticipated biennial West Coast show is a must attend event to add to your calendar for 2019.

Two days of excellent networking opportunity to meet with leading R&D Chemists, formulators, entrepreneurs, executives, manufacturers, retailers, regulatory specialists and distributors.

Suppliers' Day is a beneficial vehicle to maximize visibility, display what sets you apart, and ensuring your products are part of the ever evolving personal care market. Do not limit your possibilities by not realizing the continuous revenue potential of the Personal Care Market exposure.

The Suppliers' Day Exposition is an opportunity to build strategic partnerships, while discovering new innovative ingredients, packaging and services.

When: October 2nd & 3rd, 2019

Where: Long Beach California

Events: Educational events, Key Industry Speakers, Technical Posters

Who Exhibits:

Raw Material Suppliers and Distributors, Testing Laboratories, Regulatory, Packaging, Equipment, and Contract Manufacturers.

Who Should Attend:

R&D Chemists, Formulators, Marketing, Quality Assurance, Brand Owners, Sourcing Managers.

Attendance is Free


For Exhibiting and Attendee Registration: visit website: caliscc.org






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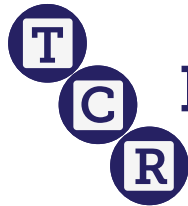
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HISTORIAN ARTICLE

RULES ARE MADE TO BE BROKEN

The Dalai Lama once stated, “know the rules well, so you can break them effectively”. It might be valiant and amusing to push the limits in our personal lives, but in the world of cosmetics and over the counter products, this is not an option. Although, there is constant news about coral reefs and Prop 65, to the average consumer, most articles read that we employ a loosely, self-regulated industry. Comparative industries are viewed as having much stricter regulations than ours.

Kendall Johnson



On the other hand, to the representative trying to make a sale and to the chemist developing a new product, we have different opinions than the consumer. Our industry has changed tremendously over recent years. Prop 65, parabens and cyclopentasiloxane are the least of our worries. While the FDA deals with lobbyists attempting to constrain topics like microbeads and bioaccumulation, the United States is still left with dwindling sunscreen options in skincare. Among many others, these were some of our largest limitations when developing and distributing skincare products, but there are bigger fish to fry.

The Brexit movement, Canada labels and China requirements are among some of the top contributors to regulation change in recent times. With Brexit, EU law directives and regulations do not directly report to the UK parliament or UK law. The transitional and implementation period for this new strategy in the UK will not reveal itself until late 2020. Could this mean two different regulations for UK and EU? Canada has been one of the most inconsistent with submission requirements. Before June 2017 the drug facts box and artwork were not required for regulatory submission. After June 2017, the drug facts box and artwork were required for submission, also including a minimum font size requirement. As of December 2018, the drug facts box is not required for submission, but artwork and the minimum font size are still required. Everyone is shouting, “MAKE A DECISION!” Finally, China continually plays in the grey area with animal testing and what products require it to be distributed (PETAs worst nightmare).

There was once a time with parabens were the most effective preservative in skincare products (they still are), a time when there were not “free-from” claims in products where a consumer would never find that “free-from” ingredient. Everyone had a piece of the pie. Our industry is ever-changing. That is probably what makes it so enticing, but not only are we competing for smaller pieces of the pie with a booming market, but we are constantly evolving based off global market restrictions and regulations to potentially sell products. Buckle up because this is only the beginning.



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INTERVIEW:

1) Where is your hometown?

I was born and raised in Orlando, FL.

2) Where did you do your university studies? What was your major and why did you pick that field?

I went to undergrad at Cornell University, where I received a B.S. in Chemical Engineering. I remember hearing from a professor early on that the goal of the program was to teach us how to solve problems, not to teach us to be chemical engineers. That resonated with me and considering the wide range of doors it's opened so far, I think it was the right decision.

3) How did you get into the personal care/cosmetics industry?

There's just something about the creativity involved in cosmetics design that's so fulfilling to me, and that creative outlet has kept me passionate from the start. My first project as a ChemE intern was to create consumer-facing demo videos for core technologies, and I loved how that stretched my skills into a space that I never thought I'd be in as an engineer. I realized early on in my summer internship that this was the industry for me, and since then I've never looked back.

4) How long have you been in the personal care industry?

It's been three years since my first internship in the industry.

5) Where do you currently work? What's your role?

I currently work remotely for the Unilever R&D Acquired Brands team based in Trumbull, CT, while sitting at the Dollar Shave Club office here in LA. My role centers around helping to leverage our Trumbull R&D resources for Dollar Shave Club innovations. While I started out as a formulator back in Trumbull, I've now transitioned to developing and supporting our product claims while helping to coordinate with our external partners on project execution.

6) What's your biggest career accomplishment to date?

When I first joined Unilever full time, I got involved in an innovation project that had been ongoing for a decade without gaining too much traction. I brought a creative solution to the table that more than doubled the production time savings from the innovation, and helped kick off a new launch strategy for the tech.

7) What is your favorite part of your current job?

There's something so satisfying about seeing your finished product on the shelf. There truly aren't many industries where you're lucky enough to be able to point to the results of your work in almost every store, and I've always thought that was one of the coolest perks of the job.

8) What is your least favorite part of your job?

In the same way the payoff from seeing your products is my favorite, the biggest downside to me is the long wait between formula development and actually seeing your products on the shelf. Sometimes it can be almost two years between formula lock and market launch for some of our mass brands, so the delay can be less than ideal.

9) What summer activity or event are you looking forward to?

Summer hiking and camping- I'm still new to the area so the mountains haven't lost their charm yet, and I've been trying to get outdoors and see the state. Compared to the hot swamps of Orlando that I grew up in, the scenery here has a whole lot more to offer and I'm trying to appreciate it as best I can.

10) What is your favorite non-work-related activity?

Anything that has to do with music. It's always been a huge part of my life, so playing instruments, going to concerts, etc. are all things I couldn't go without.

11) What is the most interesting place you've ever been?

I once stayed in a small town called Olafsvik on a remote peninsula in Western Iceland, which was sandwiched between a glacier-topped volcano and the sea. To this day I've never seen an area that looked so much like another planet; it's actually where the book "Journey to the Center of the Earth" is set.

12) Give us one random fact about yourself.

I'm willing to bet that I'd rank top 5 in the SCC when it comes to passion for freshly made hot Krispy Kreme donuts.

13) What advice would you give young scientists entering the personal care industry? Is there something you wish you had known when you were starting out?

I would say to try to make a point to always keep the consumer in mind. As scientists and engineers, we can sometimes get caught up in the exciting new technology or innovation that we're developing; but ultimately, if we can't convince and show consumers how our product is going to make their lives better, our products could miss the mark once they're on shelf.



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
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- (a) The initials and surname of each author.
- (b) The full title of the paper (first word capitalized).
- (c) The name of the journal in italics. Use standard abbreviations as in *Chemical Abstracts*.
- (d) The volume number in bold face type.
- (e) The first and last pages of the article separated by a hyphen.
- (f) Year of publication of the article (in parentheses); the month must be included for journals that do not use continuous pagination.

The following is an example of a correctly prepared journal reference; note all spacing and punctuation:

- 1) L. E. Gaul and G. B. Underwood, Relation of dew point and barometric pressure to chapping of normal skin,). *J. Invest Dermatol*, 19, 9-19 (1952).

Book references are handled similarly and should include pertinent page numbers:

- 1) S. Rothman, *Physiology and Biochemistry of the Skin* (The University of Chicago Press, Chicago, 1954), pp. 494-560.

References to books containing contributions from authors appear as follows:

- 1) S. D. Gershon, M. A. Goldberg, and M. M. Rieger, “Permanent Waving,” in *Cosmetics, Science and Technology*, 2nd ed., M. S. Balsam and E. Sagarin. Eds. (Wiley Interscience, New York, 1972), Vol. 2, pp. 167-250.

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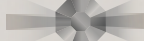
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