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# Southwest Society of Cosmetic Chemists

**SCC**

Volume 17  
Issue 1  
January  
2019



## 2019 SWSCC Monthly Meetings

February - 13

March - 20

April - 23<sup>rd</sup> Golf

April - 24<sup>th</sup>

May - 16

June - 20

July - Summer Event

August - Educational Day - 21<sup>st</sup>

September

October - 10

November 12 Officer Installation

December 6—Holiday Party



SOCIETY OF  
COSMETIC  
CHEMISTS

Inside you will find:

Page 3—November Monthly Meeting

Pages 4-5—December Dinner / Dance

Page 6—Employment Opportunity

Pages 7-9—National SCC

Pages 10-12—Chemist's Corner

join us!



MEMBER NEWS

**Make sure you renew your SWSCC membership so you can enjoy all the benefits of being a member!**



2019 SWSCC Officers

Chair—Daniel Ramirez, Mary Kay Inc.

Chair Elect— Mary Miller, Mary Kay Inc.

Secretary— Alison Nally, Essential Ingredients.

Treasurer—Dr. Zhongsheng Deng, Mary Kay Inc.

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Committees Chairs for 2019

SWSCC Educational Day—Dawn Burke Colvin

SWSCC Dinner / Dance—Mary Miller

Golf Outing—Jeff Barcafar

Awards—Jacklin Hoffelt

By Laws—Robert Vetkoetter

Newsletter Editor—Alison Nally

Newsletter Sponsorship—Melissa Mata

Summer Event 2019— OPEN

Membership—OPEN

SWSCC Media—Alison Nally

Historian— OPEN

A question gets asked of us why do we have to register for events. We have to give the venue a week's notice how many people will be attending for food count and seating. If you don't register, we might not have enough seating or food for the entire group.



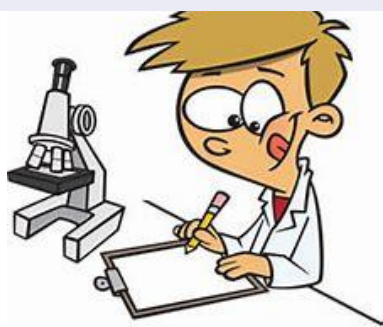
## SWSCC Monthly Meeting November 2018 CEP Course / Officer Installation

### SWSCC November 13, 2018 CEP Course / Officer Installation – Day

#### Polymers in Cosmetics and Personal Care Products

Robert Y. Lochhead, Professor and Director Emeritus of Polymer Science

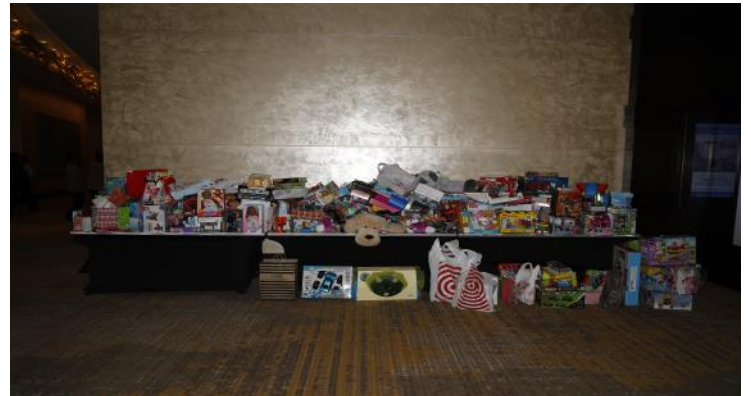
Polymers represent one of the major classes of materials used in cosmetic formulations. There are a wide variety of polymers used in a broad range of functions in this industry and a basic understanding of polymer structure – property relationships is an essential tool for the cosmetic formulator. This course addressed the need to introduce formulators and suppliers to cosmetic polymers. The course also was a pragmatic overview of polymer science woven into the needs, desires, and aspirations of cosmetic products.



## 2018 SWSCC Dinner / Dance

All photos can be found at

<https://www.bbirtphotography.com/Southwest-Society-of-Cosmetic-Chemists-2018/SWSCC-DinnerDance-2018>



## 2018 SWSCC Dinner / Dance Sponsors

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Dance Committee!



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## Employment Opportunity Mary Kay Inc.

### Product Formulation Senior Scientist – Mary Kay Inc, Lewisville TX

#### JOB PURPOSE

Conducts developmental research and commercialization of formulas, requiring a thorough foundation and seasoning in a formulation discipline. Projects require theoretical conceptualization and involve experimentation in areas which may have little or no standardized methodology. Incumbent designs an appropriate research methodology and conducts research without technical guidance. Investigates and applies state of the art technology and methods to resolve project issues.

#### ESSENTIAL DUTIES AND RESPONSIBILITIES

1. Conducts developmental research projects requiring a thorough foundation in a formulation discipline. Projects require theoretical conceptualization and involve experimentation in areas which may have little or no standardized methodology. Designs the appropriate research methodology and conducts research without technical guidance. Explores the physiochemical properties of raw materials to design and deliver a formulation with the desired end benefits. Understands structure-function relationships and can apply in formulation work. 40%
2. Independently addresses the technical needs of assigned projects. Complete assigned project responsibilities in support of a project team, communicating individual plans, results, and issues promptly to maximize team success. Work is performed with minimal supervision; incumbent exercises some degree of latitude in determining technical objectives of assignments. Responsible for multiple projects at one time. 20%
3. Serves as a technical resource within the department, providing guidance for other staff members. Proactively investigates and resolves formula issues. 15%
4. Initiates independent research projects/product library formulas of variable complexity. 10%
5. Work cooperatively with team members from other departments to insure successful attainment of objectives and fulfillment of project commitments. May serve as either project team member or leader, representing Product Development Formulation Laboratories. 10%
6. May supervise junior staff members and/or technicians. Provide technical training, project direction, career development, and feedback on all aspects of performance for staff. Assist staff in preparing goals and objectives. Provide prompt feedback to staff, and recognize and support staff achievements. 5%

In addition to the above, incumbent is expected to meet the required competencies for this position as defined in the competency profile.

#### KNOWLEDGE, SKILLS AND ABILITIES

Education Bachelor's/Master's/Ph.D. in Chemistry or a related science.

Experience 5+ yrs/3+ yrs/ 2+ yrs in the cosmetic industry

1. Must possess sound formulation skills, including the ability to independently conduct development work requiring a thorough knowledge of cosmetic formulation.
2. Must be familiar with formulas and patents within an assigned product category, and state-of-the art industry methods of formulating for stability and cost efficiency.
3. Experience in the cosmetic industry is required.
4. Must possess an understanding of the principles of product evaluation, biophysical measurements and consumer testing as it applies to product formulation.
5. Must possess an awareness of basic aesthetics, stability, performance and safety evaluations used within the cosmetic industry.
6. Good oral and written communication skills are required in order to interact with various levels of personnel within and outside the Company.

Araceli Auston

Mary Kay Inc.

Human Resources Manager

[Araceli.Auston@mkcorp.com](mailto:Araceli.Auston@mkcorp.com)



SOCIETY OF  
COSMETIC  
CHEMISTS

*Dedicated to the advancement of cosmetic science*

## ATTENTION! ATTENTION!

### 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:

Scale Up & Processing	Botanicals & Naturals for The Naturals Market	Preservatives
Regulatory	Chemistry & Regulations of Cosmetic Colorants	Cosmetic Rheology
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,  
contact Sam Neely at [sneely@scconline.org](mailto:sneely@scconline.org)

FLORIDA CHAPTER SOCIETY OF COSMETIC CHEMISTS  
PRESENTS

SEPT 12<sup>TH</sup>  
SEPT 14<sup>TH</sup>

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POSTER ABSTRACT- MARCH 15TH, 2019

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A purple powder splash or cloud of particles, similar in style to the green splash above, located in the bottom right corner of the page.

By Perry Romanowski

Used by permission from: <http://chemistscorner.com>

## What Silicones are in cosmetics?

### Article by: Perry Romanowski

Silicones are definitely controversial ingredients in cosmetic products. The misinformed reasons people suggest avoiding them include things like being unsafe for the environment, causing acne, interfering with other ingredients, being difficult to remove, providing no benefit and not being natural.

Of course, these concerns are mostly wrong and if you are focused on making the best performing products that you can, silicones are often your best ingredient choice. In this post we'll look at silicones; what they are and why they are used in cosmetics. Other people have already explained why [concerns about silicones](#) are not supported by science.

### What are silicones?

Silicones are compounds derived from the element Silicon which is the 14th on the periodic table of elements. It is located just below Carbon which means it will have some of the same chemical bonding characteristics of carbon. Like Carbon it has four positions in which it can form chemical bonds. Silanes are structurally similar to hydrocarbon alkanes and are a string of silicon atoms bonded (-Si-Si-) to each other and to hydrogens. These are much more reactive than organic alkanes and are rarely found naturally occurring.

Instead of silanes, most of the silicones you find in cosmetics are based on (-Si-O-Si-) bonds. They are produced by converting quartz into silicon then further reacting with methyl chloride which produces a variety of chlorosilanes. These are reacted further with water to produce silanols (-Si-OH) which can then be converted into things like Dimethicone, Cyclomethicone and all the other familiar silicones in cosmetic products.

Continued on next page

By Perry Romanowski

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### Why are silicones used in cosmetics?

There are a number of reasons silicones are used in cosmetic products. These include

- Spreadability – Silicones have a lower surface tension than both oils and water which means they more easily spread on surfaces than those types of compounds.
- Feel – The low surface tension also makes silicones feel more slippery and lighter on the skin. This means they improve the feel of skin products. For hair products they can also make the fibers feel less rough and more smooth.
- Slip – Still another consequence of the low surface tension is that silicones are great for detangling hair and making it easier to comb.
- Shine – Many silicones are not water soluble so they can leave a film on whatever surface they are applied. This property is useful for making hair look more shiny. It can also provide a shiny effect on skin when incorporated into makeup.
- Barrier – When used at a high enough level, silicones can create a barrier on skin which can protect it from chemical exposure and other environmental insults. This can also provide a great deal of moisturization through an occlusive action on skin.
- Foam reduction – When you want to create a cleanser that doesn't produce a lot of foam, silicones are extremely useful.



Continued on next page

By Perry Romanowski

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## What are the types of silicones in cosmetics?

The most basic silicones used in cosmetics include Cyclomethicone, Dimethicones, and Silanols (dimethiconol). Then there are derivatives of all these.

**Cyclomethicone** – This is a cyclic compound and the most commonly used types have either 4 silicon atoms (D4) or 5 silicon atoms (D5). These ingredients are volatile and evaporate more quickly than water and ethanol. This makes them great for inclusion in a product like an antiperspirant in which you want to have slip when applying it but don't want to leave a film on the surface. It also works well in hair conditioners because it can provide slip on wet hair to make combing easier, but won't build up.

**Dimethicone** – This is the general name for silicone polymers (-Si-O-) surrounded by methyl groups (-CH<sub>3</sub>). The characteristics of the material depends heavily on the average molecular weight of the polymer. Lower molecular weight dimethicone is more fluid and spreads more easily on surfaces. Higher molecular weight can be hard to spread and sticky like molasses. This is better for occlusion. Often a blend of silicones is used to get properties of both high and low molecular weight versions. Suppliers of silicone materials call these silicone fluids.

**Silanols** – When I learned about these they were called Dimethiconol which referred the fact that they had an -OH group as a side group on the polymer. This -OH group is reactive which makes silanols useful for creating other raw materials. But even as themselves, silanols can be used in cosmetic formulas primarily because they are water soluble. One of the biggest challenges of working with silicones is that they are not typically soluble in either water or oils. This means that silanols are excellent for leave-in hair conditioners. They can provide the shine, slip and feel of silicones, but will be easily washed out in future shampooings. It's important to note that these materials won't do much when put in a product that is meant to be rinsed off. They will just get rinsed away without providing much benefit.

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February - 13  
March - 20  
April - 23<sup>rd</sup> Golf  
April - 24<sup>th</sup>  
May - 16  
June - 20  
July - Summer Event  
August - Educational Day - 21st  
September  
October - 10  
November 12 Officer Installation  
December 6—Holiday Party



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