

# Society of Cosmetic Chemists

Carolina Chapter



SOCIETY OF COSMETIC CHEMISTS  
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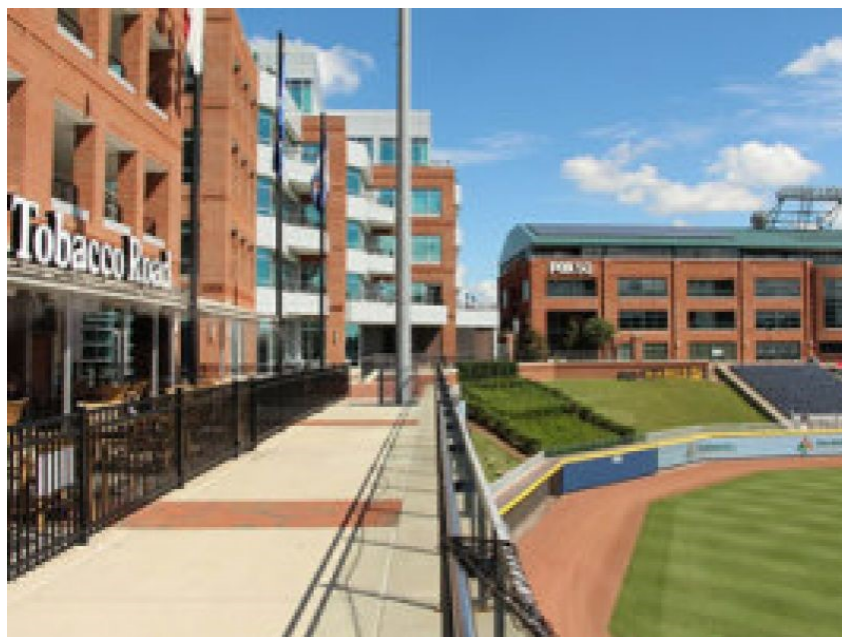
Society of Cosmetic Chemists  
Carolina Chapter

JULY 2021  
Volume 123

August 19, 2021  
5:30 PM until Game Ends

Join us for our social event at Tobacco Road Sports  
Café in Durham NC!

Catch up with the Carolina SCC over dinner and drinks  
while watching the Durham Bulls game.

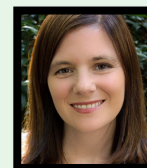


Email us at [scccarolinas@gmail.com](mailto:scccarolinas@gmail.com) for details

## 2021 OFFICERS

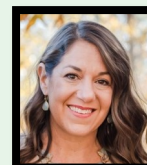
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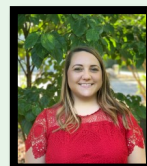
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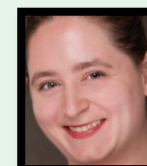


### Area IV Directors

Michelle Linscott  
Xytrus



Angela Eppler  
Pfizer Consumer  
Healthcare



### Social Media Editor

Harper Grace Shore  
P&G

### Newsletter Editor

[scccarolinas@gmail.com](mailto:scccarolinas@gmail.com)

### Website Editor

## LETTER FROM THE CHAIR: CHERYL SEIDELL



Hello Carolina Chapter Members and Friends,

Summer is in full swing and I hope everyone is enjoying themselves!

We are very excited to host our 1<sup>st</sup> in person event of 2021! Please join us July 15<sup>th</sup> for our Social Event, for appetizers and a buffet dinner at Tobacco Road Sport Café in Durham. Catch up with other SCC members while watching the Durham Bulls from the observation deck overlooking the stadium. Meet the 2021 Carolina SCC board and learn about future events, the history of our chapter and current volunteer opportunities.

We hope you can join us at this fun venue for this opportunity to get back together in person!

Registration information could be found on the SCC website.

Thank you to everyone who completed our recent Area IV member survey earlier this year.

Here are some highlights of the results:

- Virtual events: webinars are preferred to social events and tech training (58%)
- The top areas of interest for webinars/tech talks were skin care (48%) hair care (23%) and preservatives (13%).
- In-person events: 45% are ready to attend, 39% maybe willing to attend.
- An indoor tech talk is slightly preferred to an outdoor dining /social event (54%/42%).
- Sunscreen Symposium attendance – 32% yes (are attending) , 36% maybe (attending).  
65% of you know where to look for Area IV events.

We also appreciate the feedback for topics of interest and general suggestions for the chapter. This helps us immensely with planning future events.

We are looking forward to seeing everyone at the 2021 Sunscreen Symposium. Registration and hotel information can be found at the Florida SCC website:

<https://flscc.org/wp-content/uploads/2021/04/APRIL21.pdf>

Please stay safe and hope to see you soon!

*Cheryl*

Cheryl Seidell  
2021 Chair



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## Developing Superior Skin Care Products Using Holistic Formulation Design

*George Deckner*

I have always told my colleagues that the mark of great product design is simplicity and formulation robustness coupled with a superior consumer in-use experience. Optimal ingredient choices are made as a result of having an extensive material science background of commercially available ingredients. This provides the formulator with a large toolbox of options that they can use to design formulations and solve problems. It is hard to develop a superior formulation when the only tool in your toolbox is a hammer and every problem looks like a nail.

CONTINUED ON PAGE 4

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## PRINCIPLES OF HOLISTIC SKIN CARE FORMULATION DESIGN

- Delight or wow the consumer with a superior in-use experience. The formulation needs to deliver noticeable short-term product benefits that reinforce compliance that provides the long-term benefit
- Identify major formulation issues as early as possible. These include safety, regulatory, stability, and PR issues
- Use high value-added ingredients. Value is about doing things cheaper and is normally cost driven. High value added is about doing thing better and cheaper
- Use best in class materials to deliver superior efficacy. This why you need to develop material science expertise
- Active ingredients used should be backed by placebo controlled in vivo clinical studies that have statistically significant data. The benefits should also be consumer perceived
- Use synergistic combinations of ingredients, doing more with less
- Use optimized active delivery to enhance bioavailability while minimizing irritation and instability
- Formulations need to be robust and not be sensitive to minor changes
- Develop a thorough knowledge of all ingredients used and have a strong technical rationale for their use
- All skin care formulations should have good skin barrier building and moisturizing properties

## MINIMIZE THE USE OF FRAGRANCES, EMULSIFIERS AND PRESERVATIVES

### CHARACTERISTICS OF THE IDEAL HIGH VALUE-ADDED INGREDIENT

- Cost effective
- Are multitasking ingredients that can be used in many different types of formulations (eliminating the need to code additional ingredients)
- Safe
- Globally approved
- Heat stable, no formulation discoloration or smell over time
- Easy to process and solubilize into water or oil
- Provide formulation flexibility
- Are green and come from sustainable resources
- Have no public relation issues

All skin care formulations need to provide good moisturizing and skin barrier building properties. This will generally improve the efficacy of most actives you use in skin repair formulations.

## BENEFITS OF AN IMPROVED SKIN BARRIER INCLUDE:

- Reduced fine lines and wrinkles
- Reduced TEWL
- Reduced dry, flaky, skin
- Improved moisturization
- Reduced skin sensitivity
- Reduced itching, redness, stinging
- Normalized desquamation
- Increased production of Defensins (antimicrobial peptides in skin) which may result in less Acne and skin blemishes
- Helps normalize the skin microbiome

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### IMPROVING SKIN MOISTURIZATION

- Typically, oil in water emulsions provide better skin feel and moisturizing properties than water in oil
- Use multi-lamellar liquid crystal forming emulsifiers to increase skin hydration and increase the bioavailability of actives. Examples include NET-LCS PF (Barnet Products), Amisol Soft (Givaudan), Montanov 202 (Seppic), and SD Sugar Crystal-LC (Sandream Enterprises). You will however need to use a swellable thickener like Carbomer, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, or an Acrylate Copolymer to help stabilize the emulsion.
- Use synergistic humectant combinations to maximize hydration while minimizing skin tackiness. Glycerin should be the main humectant. Other examples to use with Glycerin include Acetamidoethoxyethanol, Hydroxypropyl Bis-Hydroxyethylidimonium chloride, Betaine, Sodium Polyaspartate, and Sodium Polyglutamate.
  - Use emollients that feel good and can provide skin hydration and TEWL reduction.
- TEWL reduction-Isostearyl Isostearate, Squalane
- Hydration-Isopropyl Isostearate, Dicaprylyl Isosorbide
- Fine line reduction-Squalane, C12/13 Lactate
- 
- Use ingredients that can stimulate epidermal lipid synthesis
- Niacinamide
- C12/13 Lactate
- Lauryl PCA

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### HIGH VALUE-ADDED ACTIVES

●Niacinamide (vitamin B3) is the most useful, and cost effective active used in cosmetic formulations. It has been extensively researched and is probably one of the top ingredients recommended by leading dermatologists. Key benefits include:

- Has a very good safety and stability profile
- Easy to formulate
- Globally approved
- Improves skin barrier function (stimulates Ceramide, Cholesterol, fatty acids, Involucrin, and Filaggrin synthesis)
- Reduces skin sensitivity, makes sensitive less sensitive
- Reduces fine lines and wrinkles
- Acts as an efficacy booster for many skin repair actives
- Improves skin texture/roughness
- Improves Acne
- Helps lighten skin
- Reduces skin oiliness/sebum and reduces enlarged skin pores
- Moisturizes skin
- Has antioxidant activity against singlet Oxygen (the most destructive free radical)
- 
- D Panthenol (Provitamin B5)
- Globally approved
- Good safety and stability profile
- Easy to formulate
- Improves skin hydration
- Good skin soothing activity
- Stimulates wound healing
- Enhances skin barrier repair
- Reduces UV induced erythema
- 
- N Acetyl Glucosamine
- Helps improve skin tone and barrier function
- Reduces fine lines and wrinkles
- Lightens skin, synergy with Niacinamide is claimed
- Improves skin moisturization and reduces skin flaking
- Has good skin penetrating properties
- Combined with Niacinamide, it has been shown to increase Hyaluronic acid in a 3 D skin model.
- Best ingredient currently available for increasing cell turnover without irritation.

<https://knowledge.ulprospector.com/10847/pcc-developing-superior-skin-care-products-using-holistic-formulation-design/>

## NATIONAL NEWS



**Society of Cosmetic Chemists Elects Executive Officers and Area Directors for 2021**— The Society of Cosmetic Chemists (SCC) announced the election results for the organization’s 2021 executive officers and area directors. Together with the Board of Directors, they are the governing body focused on the mission, strategy and goals of the Society and are responsible for representing the interests of nearly 6,000 individual cosmetics and personal care industry members globally.

Effective January 1, 2021, SCC’s executive officers are:

- President is **Elizabeth ‘Liz’ Streland**
- Vice President **Michelle Hines, PhD**
- Vice President-Elect **Mark Chandler**
- Secretary **Yulia Park**
- Treasurer **Karen Chun**

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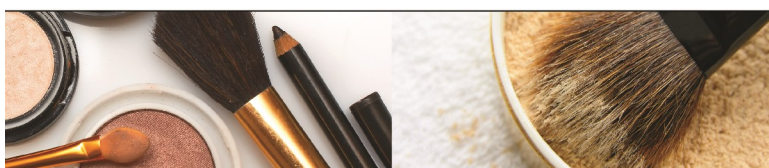
- |                      |                             |
|----------------------|-----------------------------|
| Active Ingredients   | Preservatives               |
| Conditioning Agents  | Rheology Modifiers          |
| Emollients           | Silicones & Emulsion Blends |
| Emulsifiers          | Solvents                    |
| Exfoliants           | Sunscreen Actives           |
| Film Formers         | Surfactants                 |
| Functional Additives | Vitamin Derivatives         |
| Micronized Powders   |                             |
| Polymers             |                             |



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## Society of Cosmetic Chemists Launches Digital Resource Hub



Today, the Society of Cosmetic Chemists (SCC) launched its Media Library and Resource Center ([www.scconline.org/library](http://www.scconline.org/library)), a digital platform poised to be the industry's go-to resource for the latest scientific research, education and information.

Content on this new hub includes: digital issues of the peer-reviewed research presented in the Journal of Cosmetic Science; an archive of recent SCC Webinars on important advancements, topics and trends in the cosmetic and personal

care industry; videos/slide-syncs of the scientific presentations delivered at recent Annual Scientific Meetings; and other resources.

"After nearly a year in development, we are excited to launch this new industry resource," said Erica O'Grady, CAE, Executive Director/CEO of the Society. "Given current global events, the need for on-demand, remote access to resources is greater than ever, and we're pleased to be able to provide that."

And, new for 2020, the Journal of Cosmetic Science has been redesigned and migrated to a digital-only format. Access to all issues of the Journal is free to SCC members, and issues dated 1947-2017 are now open access for the industry.

The Media Library & Resource Center includes a sophisticated keyword search of all available content types on the hub – articles, presentations, newsletters, webinars and more. On-demand purchase options for all types of content is available and select content access is included free as a benefit of SCC membership.

"I am delighted that the SCC is leveraging technology investments to develop these types of products and services which are core to our mission," said Mindy Goldstein, SCC President and owner of Mindy S. Goldstein, PhD Consulting. "Our strategic focus as an organization is to continue to create valuable tools for our members to assist in their professional development and knowledge in an ever-changing industry."



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## JOB POSTING

### **Job Description: Personal Care Formulator**

The formulator will be responsible for:

- Develop unique, customized formulations for a variety of applications as needed.
- Prepare samples of a range of formulation types (e.g. emulsions, suspensions, and balms) in a larger scale environment using specialized manufacturing and/or laboratory equipment.
- Perform and record detailed physical property measurements and assessments of storage stability under a range of temperature conditions in accordance with the relevant study plans and guidelines for each formulation.
- Perform and record detailed physical assessments of formulation characteristics to determine the acceptability of the batch.
- Accurately record all data from studies in laboratory notebooks, spreadsheets, etc and check data quality for trends (e.g. shelf life)
- Retain samples from lots produced for finished goods and perform an annual review for the duration of its determined shelf life.
- Maintain all formulations laboratory resources and equipment to an acceptable standard.
- Work to the principles of Good Laboratory Practice (GLP) and Good Manufacturing Practices (GMP).
- Work according to documented procedures, policies, and safety standards.

### **Position Requirements**

Educated to B.S. or M.S. degree level preferred in relevant scientific subject.

At least 2 years' work experience in formulation and product development.

Good organization skills and the ability to work with minimal supervision.

Broad range of experience in formulation preparation and testing in the laboratory.

A sound understanding of the principles of GLP.

Diligent with attention to detail.

Good verbal communication skills and able to keep detailed records.

Computer literacy for the use of Excel and other MS Office software.

Ability to work under pressure and have a flexible attitude.

The Active Concepts family of companies offers a dynamic and innovative environment focused on growth and committed to compensating you competitively. We proudly work towards common goals that delight our customers and employees, allowing us to reward individual contributions and team successes.

Please submit resumes to Bruce Wagoner at [bwagoner@activeconceptsllc.com](mailto:bwagoner@activeconceptsllc.com) for consideration.