

Michigan SCC - News from the Mitten



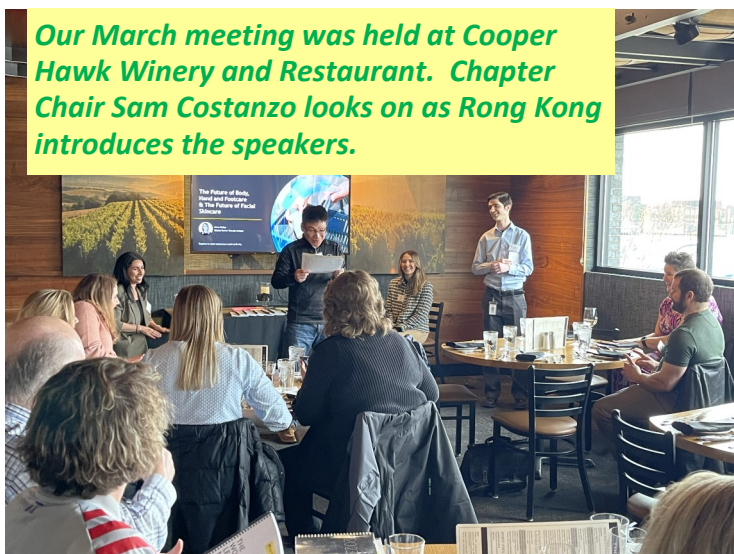
SOCIETY OF COSMETIC CHEMISTS — MICHIGAN CHAPTER

Volume 11 Issue 2

May - 2023

Scenes from Our First Chapter Meeting in 2023

Our March meeting was held at Cooper Hawk Winery and Restaurant. Chapter Chair Sam Costanzo looks on as Rong Kong introduces the speakers.



Anna Keller and her colleague from Mintel gave presentations on trends in the facial, hand, body and foot skin care markets



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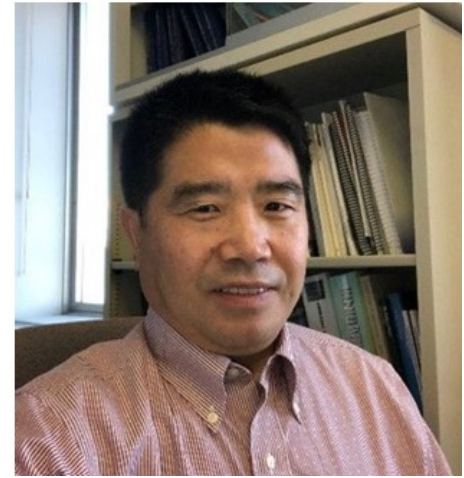


CROSSCHEM CoastSouthwest

Our May Technical Meeting Program will Feature Speakers on Natural and Sustainable Ingredient Technology



Join us at Zehnder's in Frankenmuth on the afternoon of May 11th. Visit our website (sccmi.org/event-information) for more details and to register for the meeting.



Fengqiu "Fred" Fan, PhD, application development specialist at Primient will present "*The Next Phase for Sustainable Green & Clean Ingredients*"

Noellie Astruc, business development manager at Croda will present "*ISO16128, Decoding the Natural Origin Index*"



Meanwhile natural trends and claims are leading the beauty market, the lack of alignment from the industry is still present.

The Natural Origin Index - ISO 16128, seems to be the newest standard adopted by the industry to measure the naturalness of ingredients and finished products.

During this talk we are going to understand what ISO 16128 is, how to calculate it, what impact it has worldwide, and if it can lead to any claims.

The cosmetics and personal care industry has reached a critical stage regarding sustainability and social responsibility. Advancing the industry accordingly, at the right pace and in concert with consumer expectations, is an urgent but difficult task. Products must create the desired appearance or finish, but also feel pleasant on the skin, be physiologically benign, and possibly provide therapeutic properties. Formulators are challenged to meet these performance requirements while also satisfying growing consumer demand for products derived from natural ingredients.

In this talk, I will address these challenges and the principal to meet this challenges in developing new polysaccharides ingredients in cosmetic and personal care industry.

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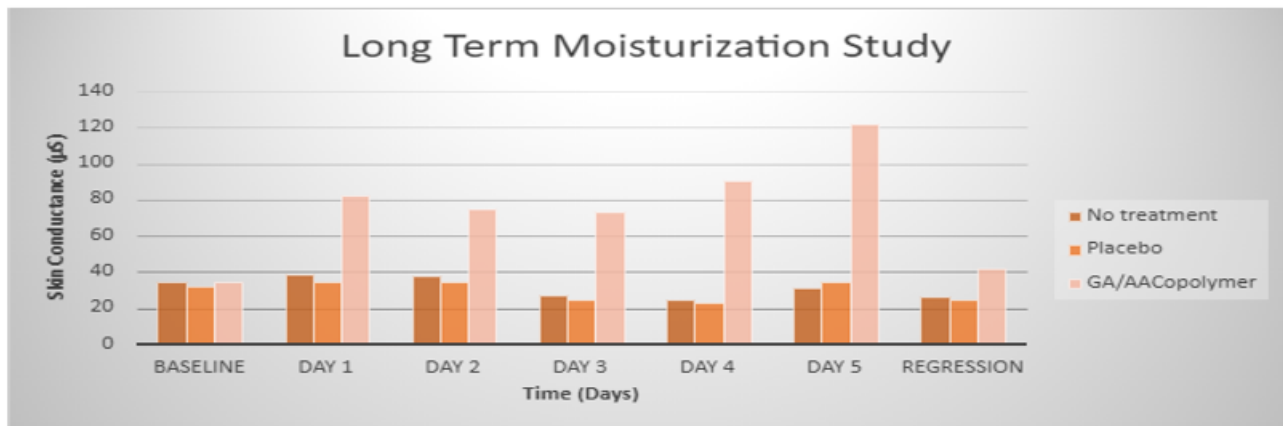
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When was the last time you really looked at a spiderweb?

Author: Donna Vigilante

Did you ever notice how a spider web holds water after a rainstorm? And, how once you disturb the web the water is released? That is the principle behind the moisture matrix of glyceryl acrylate/acrylic acid copolymer technology. The moisture matrices created are called clathrates. A clathrate is a group of molecules enclosed within a cage from which they cannot escape until the structure is destroyed. When a series of cages are linked together a matrix is formed and with the addition of water, a moisture matrix is created.

Sounds simple but producing organic chemical structures that hold moisture is a challenge. A clathrate's water capacity depends on the size of the void in the cage molecule. The cage does not covalently bond with the water but holds it due to the combination of hydrogen bonding and van der Waals forces. The glyceryl acrylate/acrylic acid copolymer cage holds a remarkably high percentage of water. This leads to a moisturization quality far superior to classical moisturizing ingredients.



Glyceryl Acrylate/Acrylic Acid Copolymer provides significant increase in moisturization during treatment and after regression compared to placebo and untreated ($p < 0.05$).

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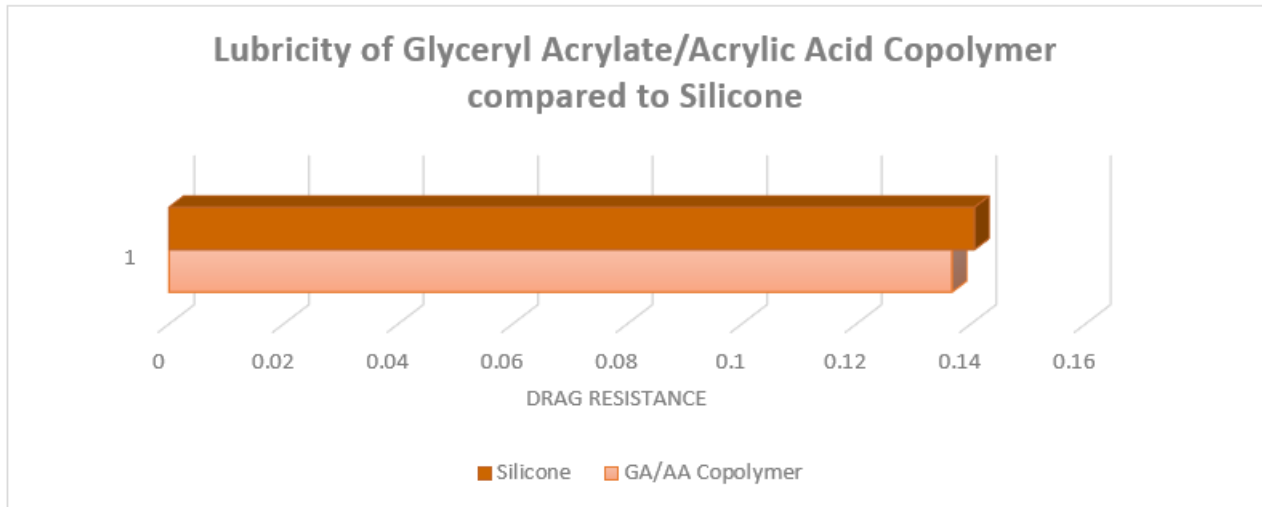
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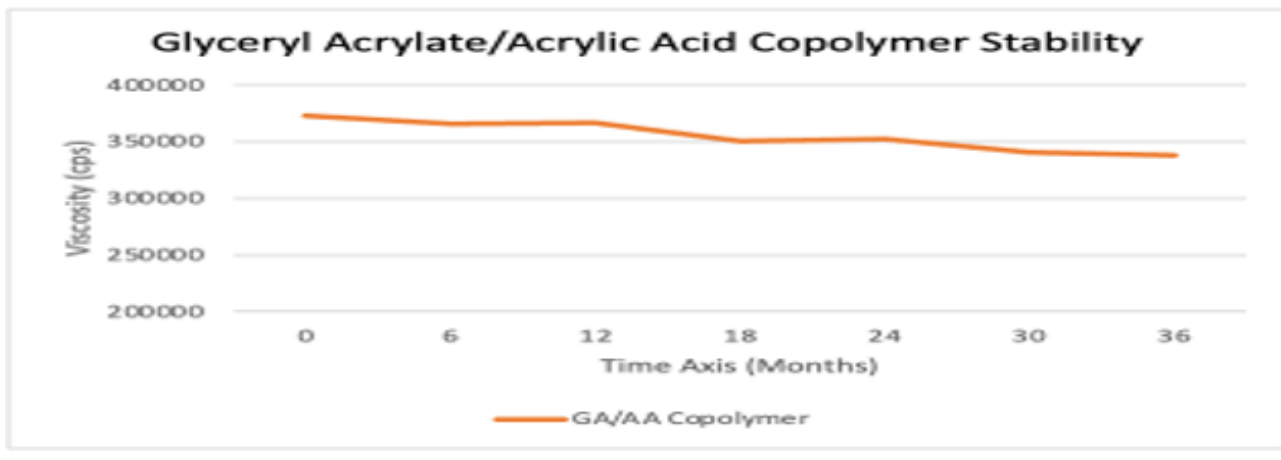
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Glyceryl Acrylate/Acrylic Acid Copolymer is structured in such a manner that pH, ionic strength, surface moisture and temperature at the epidermal layer of the skin create a reversible clathrate. This reversibility brings about a moisture balancing effect. Rather than just rewetting or super fattening the skin, a reversible clathrate releases moisture where and when it is needed and avoids over moisturizing healthy skin. This occurs because glyceryl acrylate/acrylic acid copolymer products are skin activated. They are most effective in a pH range of 5.0 – 5.5, the usual pH range of skin.



Lubricity increases as drag resistance decreases.

Clathrates created from glyceryl acrylate/acrylic acid copolymer do not only work well on the skin. They also work inside your package stabilizing the emulsion. This stabilizing effect increases the shelf life of your product and ensures that it will look and feel the same each time your customer applies it. As you would expect from materials that help keep your product stable, glyceryl acrylate/acrylic acid copolymer is also stable. Research has shown the viscosity of this product to be very stable at various temperatures over time. Even after years, there is little noticeable change.



Glyceryl Acrylate/Acrylic Acid copolymer products come in a variety of grades and offer many benefits including superior moisturization, slip, lubricity, suspension, and exceptional after-feel. These products are easy to use and can be added during the water phase or post emulsion. They provide the formulator with flexibility to create their desired aesthetics in creams, lotions, foundations, face masks and more. Glyceryl Acrylate/Acrylic Acid copolymer products are non-oily, clear, water-soluble, cold processable, biodegradable, high in natural origin content, China listed, Halal and RSPO certified. So, only one question remains, where does your journey with glyceryl acrylate/acrylic acid copolymer begin?



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Member News

Treasurer-Elect Caryn Weiss has won the Chapter Merit Award for her service to the Michigan Chapter. She was presented with the award by Rong Kong at the March meeting.



From the Editor

I am always looking for content for our next issue. Please help by sending information about upcoming events, member news, or other potential content. Contact me at: newsletter@sccmi.org