



Mid-Atlantic Society of Cosmetic Chemists (MASCC) Newsletter

Dec. 2021

MASCC 2021 Board Members



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Central Virginia Commu-



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Cindy J. Cosmetics Labs



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Newsletter

Angelia Peavey
SNF Holding Company

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Greetings From the Chair

In December 2020, I took on the role of Chair of the Mid-Atlantic Society of Cosmetic Chemists, hoping to create a renewed appreciation for cosmetic chemistry in our region. As we wind down 2021 with 117 members, the future looks brighter for cosmetic science in 2022!

This year I was fortunate to have a team of volunteers that helped to make this goal possible. To begin with I would like to thank Cynthia Johnson, chair elect, who was a supportive member of the team, and contributed many ideas to what was a successful year. Cynthia has been growing her company, Cindy J Cosmetic Labs, and she is on track for a successful year in 2022. On this Wednesday morning at the New York Sheraton, from 11:10 – 11:30am, December 15, 2021 Cynthia will be speaking at the December meeting of the SCC on “Diversity in Beauty”.

The treasurer, Katrika Shaw, was an integral member of the team, and helped guide the year, making possible two face to face events. Our first face to face event was at the Main Event in Columbia, Maryland. We enjoyed an afternoon of bowling and arcade games, along with the camaraderie that makes the SCC my favorite organization to be a part of. Our second face to face event was the Presidents Lunch at Maggiano’s Little Italy in Springfield, Virginia. At this meeting we met with the SCC president, Liz Strelend, and we had our officers installed. It was a pleasure to meet with Liz and to hear her speak about the Society of Cosmetic Chemists. After lunch we took a trip to the National Museum of African American History and Culture. This amazing place has become an important destination to learn more about the contributions made by African Americans to our country.

The secretary, Antoinette (Toni) Barclay, has been instrumental in making our zoom meetings successful. In addition to being a top notch scientist with GSK, and a dedicated member of the SCC, she is a very experienced communicator with computer technology. Toni’s skill with Zoom, Event Brite, Mail Chimp, has made possible all of the following events this year. This year we had 5 tech talks, beginning with my “Wine and Chocolate Tasting”. This is a sweet topic that has been presented to four other sections of the SCC. Dr. Ike Ononye presented on “A journey into modern African beauty care, perspectives for successful innovation.” Eunice Cofie-Obeng, the Founder of Nuekie, presented on the topic “Reimagining Skincare Formulations for Skin of Color”. Aaron Feigelman, presented “Supercritical Fluid Extraction Technologies: The Past, Present, and Future”. Alison Griffin, Regional Sales manager of Sudarshan, presented “Decoding the Crystal Ball – Color Trends”

A volunteer, Xylia Ajose, has been very instrumental in expanding our social media presence on Facebook, LinkedIn, Instagram, and the use of Canva a toolbox for creating content. Xylia will be getting a service award from this chapter for her contributions this year. Lastly, our Newsletter editor, Angelia Peavey has done a fantastic job of publishing the newsletters this year. Angelia will be staying on the board next year to serve as the treasurer, and I will serve as the secretary.

Please remember to participate in the membership survey so that the board can begin to plan for 2022.

Membership - <https://www.surveymonkey.com/r/KRFBLWV>

We hope to see you at our tech talks and in person events in the coming year.

Sincerely, Nelson Ayala, Ph.D., MBA, DTM

Chair, Mid-Atlantic Section of the Society of Cosmetic Chemists

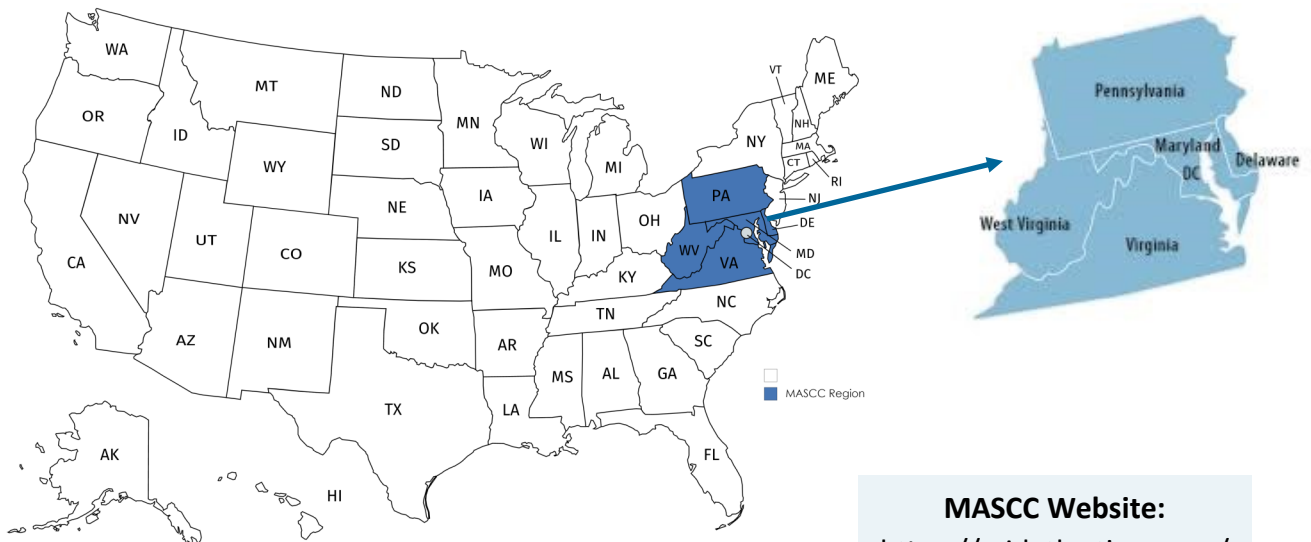
Mid-Atlantic SCC Chapter

The SCC Mid-Atlantic Chapter was chartered in 1967. There are over 90 members in the chapter spread over a large geographical area which includes the states of Delaware, Maryland, Pennsylvania, Virginia, West Virginia and Washington DC. The Mid-Atlantic Chapter is not only dedicated to the education of its members, but to the education and further advancement of the area's students through career days at local universities.

Learn more about the Mid-Atlantic Chapter at:
www.midatlanticscc.org.

MID-ATLANTIC REGION

Pennsylvania, Delaware, Maryland, Washington D.C., West Virginia, Virginia



MASCC Website:
<https://midatlanticscc.org/>
MASCC Email:

Call for MASCC Advertisements

The Mid-Atlantic Chapter of the Society of Cosmetic Chemists (MASCC) newsletter is published prior to each meeting of the MASCC. Your MASCC newsletter sponsorship will give your company the opportunity to be featured in our newsletter approximately 4 times/year. The newsletter is distributed to Society of Cosmetic Chemists members and it is also available on the MASCC website: <http://www.midatlanticscc.com>.

The MASCC newsletter accepts three (3) different add sizes:

2 X 2 in. \$ 250.00/year
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SCC 2022 Executive Officers



SOCIETY OF COSMETIC CHEMISTS
SERVING GREATER NORTH AMERICA SINCE 1945

For Immediate Release:
September 20, 2021

Contact:
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Society of Cosmetic Chemists Elects Executive Officers and Area Directors for 2022

New York, NY — The Society of Cosmetic Chemists (SCC) announced the election results for the organization's 2022 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 more than 6,000 individual cosmetics and personal care industry members globally.

Effective January 1, 2022, SCC's Executive Officers are:

President
Michelle Hines, PhD
Mary Kay, Inc., Lewisville, TX
SCC Southwest Chapter



Vice President
Mark Chandler
ACT Solutions Corp., Newark, DE
SCC Mid-Atlantic Chapter



Vice President-Elect
Anthony J. O'Lenick
Nascent Technologies Corporation, Dacula, GA
SCC Southeast Chapter



Secretary
Qihong Zhang, PhD
The Estee Lauder Companies, Melville, NY
SCC New York Chapter



Treasurer
Karen Chun
Symrise, Inc., Carlsbad, CA
SCC California Chapter



"I am extremely honored and excited to serve the SCC as President in 2022," says Michelle Hines, PhD, Director, Product Formulation at Mary Kay. "I look forward to working with my fellow Board members and capitalizing on their wealth of knowledge and experience in our industry. We are committed to a future-focused organization with increased engagement opportunities of value to our members."

The other voting members of the Board of Directors are:

<i>Senior Directors</i>	<i>Directors (*newly-elected)</i>
Area I: Marie Thadal (Coptis, Inc.)	*Volodymyr Onyshchak (The Estee Lauder Companies)
Area II: Melissa Christenson (BRIDGE, Inc.)	*Sophie Bonham (Cosmos Corporation)
Area III: Angie Inouye (Charkit Chemical Corp.)	*Aaron Peterson (Barnet)
Area IV: Angela Eppler, PhD (Pfizer Consumer Healthcare)	*Cubie Lamb (J. Strickland & Company)
Area V: Kayla Ivey (Gojo Industries, Inc.)	*Lionel Ripoll, PhD

These passionate volunteers are joined by Immediate Past President Liz Streland (Nagase Specialty Materials) and IFSCC Representative Peter Tsois (The Estee Lauder Companies), both of whom serve in an ex-officio capacity.

"I am pleased to welcome our new Officers and Directors. Each one of them brings a unique background and diverse perspective to the table as we continue to position SCC as the premier education, networking and scientific resource in the cosmetics and personal care industry," said Erica L. O'Grady, CAE, SCC's CEO. "Their passion for serving the Society will help drive value for our members and our chapters," she added.

About SCC

Having celebrated its 75th Anniversary in 2020, the SCC is the oldest and largest non-profit membership organization serving the cosmetics and personal care industry. Dedicated to the advancement of cosmetic science, our mission is to further the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetics and personal care industry. SCC provides unparalleled education and networking for more than 6,000 members globally and via 19 chapters across Greater North America. Visit www.scconline.org for more information.



WELCOME THE NEW 2022 MASCC BOARD



Cynthia Johnson

Harrison Fekrat

Chair

Vice Chair

2022 Executive Board



Nelson Ayala

Angelia Peavey

Secretary

Treasurer



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Mid-Atlantic SCC

2021 Chapter Highlights

2021 Chapter Tech Talks:

- “A Journey Into Modern African Beauty Care: Perspectives for Successful Innovation” by Ike Ononye.
- “Reimagining Skincare Formulations for Skin of Color” by Eunice Cofie-Obeng
- “Supercritical Fluid Extraction Technologies: The Past, Present, and Future” by Aaron Feigelman
- "Color Trends - Where they come from, and how they translate for cosmetics, fashion, home and décor" by Alison Griffin



Ike Ononye



Eunice Cofie-Obeng



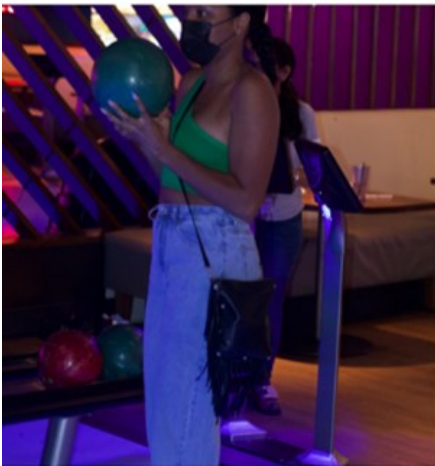
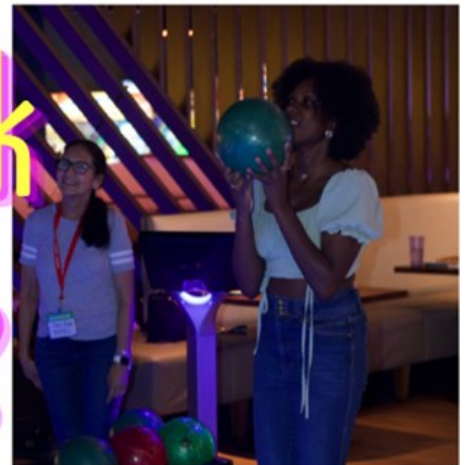
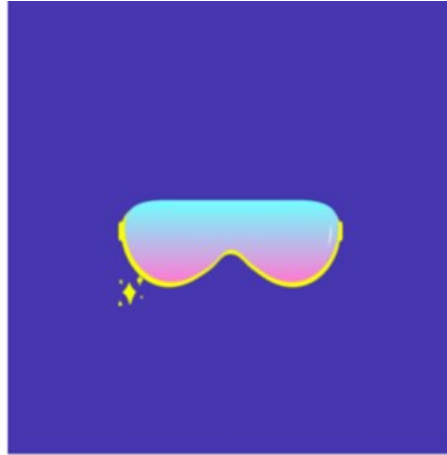
Aaron Feigelman



Alison Griffin

2021 Chapter Highlights

In Person at Main Event



MASCC President's Luncheon

Induction of the 2022 Board Officers: Special Thanks to Liz Streland



MASCC's President's Luncheon

Special Thanks to Xylia Ajose

**Relaunching MASCC's Website and Assisting with
Launching Social Media Platforms**



Feature Article

Date: March 21, 2021

From: Matt Zoeller, Formulation Applications Manager, Specialty Division 3V Sigma USA

The Carbomer/Amine/Stearate Formula Chassis: Still Crazy after All These Years.

By Matt Zoeller & Sam Kingeo, 3V Sigma USA, Georgetown, SC 29440

One of the most widely used oil-in-water (o/w) emulsion formula chassis has been the classic combination of stearic acid saponified *in situ* with triethanolamine (TEA) rheologically stabilized by neutralized polyacrylic acid carbomers. The TEA-Stearate backbone dates back to early 20th century compounding. When carbomers were introduced to the cosmetic chemistry toolbox in the 1960's by the B.F. Goodrich Company (Carbopol™), this dated soap emulsification system took on a new life and proved to be an inexpensive, easily made, highly stable vehicle that found its way into thousands of personal care lotions and creams. One could say it was a love-match from the start: stearic acid needed TEA to saponify elegantly and carbomer needed TEA to neutralize readily. This formulation *menage-a-trois* succeeded for decades until the recent past, when TEA was disqualified from use due to its residual free diethanolamine (DEA), a hard luck story. The HI&I formulators still use it; however, like morpholine and pyrophosphates, you can put it on your floor but not on your face.

Selection of Materials....

Many formulators moved on to other approaches, but this “old dog capable of new tricks” is readily updated for the 21st century formulator and regulatory environment. It only requires thinking outside the box. Tromethamine, or tris(hydroxymethyl) aminomethane (TRIS AMINO™ ULTRA PC from ANGUS Chemical Company) is not the same chemical as Triethanolamine, and that must be stated clearly since too many chemists associate the two together. Tromethamine is safe, globally compliant, has zero DEA, and is not a primary precursor to nitrosamine formation. It neatly replaces TEA in this amine-stearate/carbomer system.

Another aspect of this formula chassis is the often overlooked properties of carbomer itself. Many formulators are unaware there are several grades, adding unique gifts to this process. We used a less cross-linked carbomer (Synthalen™ L from 3V Sigma USA) that contributes lower viscosity for better flow properties, lower sensitivity to electrolytes but *equal stability* yield value: a win-win-win for lotion formulation. Certainly the higher cross-linked carbomers work well too, and if greater viscosity is the goal, these would be the better choice at nearly same concentration and cost. The prescribed level of use is 0.10 – 0.50% carbomer, but it pays to heed that carbomer viscosity and yield values are not always aligned with concentration; neutral viscosity is less at the lower use range but will not be linear with higher additions e.g. neutral viscosity of Synthalen™ M at 0.20% is ~5000 mPa while neutral viscosity of 0.50% is ~35,000 mPa. The stability of the final product will be the same at either use level. Use this property of carbomers to your advantage!

The stearic acid itself must be carefully selected also. Here again, not all “Stearic Acids” are same. The higher grades (>90% C18) used in pharma and as building block precursors are not appropriate for this application. It may seem counterintuitive, but the best grade to use is Stearic Acid NF 50 TP (triple pressed) which comprises 40 – 60% C18, the balance being mostly palmitic acid (C16). Both saponification and acid values should be in the vicinity of 210. This material, also called *soap grade stearic* since the soapers use it, provides the best results.

Feature Article Con't

Processing matters....

To know where we are going, let's look at where we've been. Exhibit 1 states a classic TEA/stearic acid/carbomer formula, where the nominal (perhaps *traditional*?) saponification ratio with triple pressed stearic acid to TEA 99% is 6.5:1. You always saponify/neutralize to a pH < 7.0 *after* incorporating oil phase, leaving some free stearic acid. This small amount of free fatty acid acts like a builder but also impedes pearlescence on aging. Addition of glyceryl stearate (GMS-SE) or sorbitan stearate builds the emulsification properties, cetyl-stearyl alcohol mitigates the "soaping" effect while building lamellar liquid crystal structure in conjunction with GMS. You also add 200 - 300 ppm sodium lauryl sulfate to the water phase *before* combining phases, reducing surface tension and micelle size. Finally, you add the TEA above 65°C after combining phases and you will *always cool and mix the batch slowly* until it reaches 40 - 45° C enabling viscosity build.

Substituting tromethamine at a ratio of 0.85:1.00 to TEA will produce an equally elegant product. The formula in Exhibit 1 could be elevated to a viscous cream by several means. Switching to a heavier cross-linked carbomer at same or higher concentration is the easiest approach, but also increasing the amine-stearate or cetearyl alcohol/glyceryl stearate content would work too, though the cream becomes denser not necessarily richer. Note the lipid phase presence of non-polar (petrolatum), polar (IPM) and silicone materials. This demonstrates one of the great virtues of this classic chassis: it accommodates nearly all lipid classes in a stable format.

It may occur to you – and must be noted – that other alkali can perform the same stoichiometric job plus neutralize carbomer, even the basic mineral hydroxides. As any veteran formulator can tell you: the outcome in product appearance and texture will not be the same. This is keenly seen when applying this to shaving cream, a common use of the format. You will not get the same results in foam quality and texture with any other alkali. Tromethamine comes closest to matching TEA in all aspects of finished product quality. The formulation is then reiterated in Exhibit 2 as a more modern version, with the same carbomer (Synthalen™ L) but now with tromethamine (TRIS AMINO™ ULTRA PC). We increased the Natural Origin Content (NOC) by substituting the petrochemicals and dimethicone with lipids having higher NOC values. We also switched out the sulfate, preservatives and glycol to less controversial materials, although the originals are still compliant and provide superior results. The appearance and texture of the updated lotion is on par with the classic and stability is uncompromised. The oil load composition may be liberally altered, building body using hydrocarbons, esters or waxes.

Functional and botanical additives of many types are compatible with this pH neutral system, though strong electrolytes and cationics are discouraged lest the carbomer become dissociated, crashing viscosity and stability. You the reader may also ask: with HASE thickeners available, why is this system still relevant. The answer is simple: cost and sustainability. The total cost of the formulation cited is nearly the same as the cost contribution of the *polymer alone* in a similar formula with most associative thickeners. Supply chain availability, sustainability and renewable content for stearic acid and the builders used are stable. We are talking economy and elegance here: chief reasons this formula medium gained popularity in the first place.

What was old is new again as long as you keep your Critical Thinking Cap on.

Madam C.J. Walker Scholarship Winners



For Immediate Release:
October 1, 2021

Contact:
Latasha Archer, Manager, Marketing
larcher@scconline.org; 646-545-3520

SCC Announces Winners of the Madam C.J. Walker Scholarship Sponsored by Mary Kay Inc.

New York, NY — The Society of Cosmetic Chemists (SCC) is pleased to announce the winners of the Madam C.J. Walker Scholarship, sponsored by Mary Kay Inc., in support of under-represented minority students pursuing an undergraduate or graduate degree in chemical, physical, medical, pharmaceutical, biological, or related sciences and technology.

The selection committee, which included Madam C.J. Walker's great-great-granddaughter, chose the two winners from a group of impressive candidates, each of whom shall receive a \$5,000 scholarship:



Imani Elaine Porter
Hampton University
second year undergraduate
(biochemistry)



Joy Rutherford
The Ohio State University
fourth year PhD candidate
(chemistry)

The winners have been invited to attend the SCC 75th Annual Meeting & Showcase, December 13-15, 2021 in New York City to be presented with the award.

"Madam Walker was a pioneering Black female entrepreneur who inspired many with her financial independence, business acumen, and philanthropy," said Dr. Lucy Gildea, Chief Scientific Officer at Mary Kay Inc. "It is exciting to honor her legacy by supporting these two outstanding students in their pursuit of careers in cosmetic science. Mary Kay is proud to inspire and empower the next generation of scientists to follow in Walker's footsteps."

"The selection committee was impressed by the outstanding applicants for the inaugural scholarship," said Erica O'Grady, CAE, CEO of the Society. "Imani and Joy rose to the top of this impressive group with their commitment to education, research, mentorship, and giving back in the true spirit of Madam C.J. Walker."

About the Scholarship

Established in 2021, the Madam C.J. Walker Scholarship, sponsored by Mary Kay, awards two (2) \$5,000 scholarships to under-represented minority students pursuing an undergraduate or graduate degree in chemical, physical, medical, pharmaceutical, biological or related sciences and technology

About SCC

Founded in 1945 and now celebrating its 75th Anniversary, the SCC is the oldest and largest non-profit membership organization serving the cosmetics and personal care industry. Dedicated to the advancement of cosmetic science, SCC headquarters provides unparalleled education, resources, and networking for nearly 6,000 members globally and via 19 chapters across Greater North America. Visit www.scconline.org for more information.

About Mary Kay Inc.

One of the original glass ceiling breakers, Mary Kay Ash founded her beauty company more than 56 years ago with three goals: develop rewarding opportunities for women, offer irresistible products, and make the world a better place. That dream has blossomed into a multibillion-dollar company with millions of independent sales force members in nearly 40 countries. Mary Kay communities, and encouraging children to follow their dreams. Mary Kay Ash's original vision continues to shine—one lipstick at a time. Learn more at MaryKay.com from around the world, focusing on supporting cancer research, protecting survivors from domestic abuse, beautifying our



SCC Industry News



Where the world connects for the best cosmetic science for 75 years!

December 13-15, 2021 | Onsite & Online

HOME / EVENTS / ANNUAL SCIENTIFIC MEETING



The Society's Annual Meeting is the premier conference for cosmetic science education. This year, we'll feature 35 podium lectures covering the latest research and innovation in: **Diversity in Beauty; New Discoveries in CBDs and Microbiome; Skincare at the Forefront; 75 Years of Beauty & Beyond; and more.**

The Annual Meeting convenes over 1,200 attendees from some of the top cosmetic/personal care brands and manufacturers - who in the past have included: *Aveda, Avon, Bayer Consumer Care, Chanel, COTY, The Estee Lauder Companies, Henkel, John Paul Mitchell Systems, Johnson & Johnson, L'Oreal, Mary Kay, Procter & Gamble, Reckitt Benckiser, Revlon, Rodan + Fields, Shiseido, Unilever, and so many others.*

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- Discounted registration to the **SCC Annual Meeting**
- Opportunities to participate in a range of professional and social events at 19 affiliated Chapters
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