#### TWIN CITIES CHAPTER

# Society of Cosmetic Chemists

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Dedicated to the Advancement of Cosmetic Science

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# CHAPTER MEETING TUESDAY, MARCH 20

#### Fermentation and Biotechnology in the Cosmetics Industry

#### Speaker:

Jon Anderson, President of Actives International

Abstract and speaker biography can be found on page 2 of this newsletter.

#### When:

Tuesday, March 20 5:30-6:00 Social 6:00-7:00 Dinner 7:00-8:00 Presentation

#### Where:

Exchange Food & Drink 500 5th Ave Northwest New Brighton, MN 55112 http://exchangefoodanddrink.com/



#### Menu:

London Broil Pan Seared Chicken Breast Walleye Almandine Wild Mushroom Bolognese

#### Cost:

\$30 (members) \$35 (non-members) Payments can be made at the TCC-SCC website (www.tccscc.org) or at the door.

#### **RSVP**:

Please register for the event by **Friday, March 16** at <a href="https://goo.gl/forms/jqsqDuBPngfqqPuK2">https://goo.gl/forms/jqsqDuBPngfqqPuK2</a>

# SCC Twin Cities Chapter Meeting (cont.)

#### **Presentation Abstract:**

#### Fermentation and Biotransformation: Proven Routes to Novel Actives for the Cosmetics Industry.

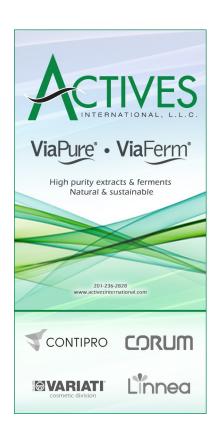
Development of novel active ingredients requires innovative, reliable and affordable sourcing. With the move away from animal derived compounds coupled with the shortcomings of plant derived extracts (such as seasonal supplies, year to year variability, and sustainability) fermentation and biotransformation have become proven routes for the discovery and large scale supply of ingredients for the cosmetics industry.

Recognized or not, fermentation is a part of our daily lives. Whether it is the bread and yogurts that we eat, the beer and wine we drink, or the pharmaceuticals we take, fermentation and biotransformation have become ingrained in our supply chain. Many ingredients incorporated into cosmetic formulations or used in our fragrances are produced through this biotechnology.

Fermentation is a controlled process to grow microorganisms with the proper environment, nutrients and carbon source so as to provide a target compound. The microorganisms include a variety of bacteria, fungi, and microalgae; the target molecules range from macromolecules such as proteins and polysaccharides to small hydrocarbons and heterocyclic compounds. The target molecules can be endogenous constituents of the microorganisms such as polysaccharides that help with viscosity or moisturization, glycoproteins that serve as biological response modifiers to improve our immune system or small molecules that, for example have whitening activity. Additionally, interesting peptides or proteins of animal origin can be produced through GMO fermentation.

Biotransformation can be described as the structural modification of one compound (usually abundant, affordable, and inactive) into another compound with significant benefit during fermentation. This structural modification is achieved through specific enzymatic processes of the microorganism such as oxidation, reduction, esterification or ring formation during the fermentation process. Examples of this technology will be presented.

Fermentation and biotransformation has proven to be cost effective and this presentation will discuss various aspects of the biotechnological production of compounds for the cosmetics industry.



#### Speaker Biography:

Dr. Jon Anderson, President of Actives International - Dr. Jon Anderson received degrees in Botany and Chemistry from Colorado State University and a Ph.D. in Medicinal Chemistry from Purdue University where he gained a passion for exploring the bioactive chemistry of medicinal plants. Following some post graduate research on antiviral agents of plant origin, Jon worked for several years at Estee Lauder where he established the company's natural products group. In 2000 Dr. Anderson co-founded Actives International LLC and has focused on developing highly active ingredients from natural sources using the most recent



technology. In addition to highly refined botanicals, Jon's group specializes on fermentation and bio-production of active ingredients for skin care. In 2013 Jon was nominated as an Ernst and Young New Jersey "Entrepreneur of the Year in Biotechnology and Medical Technology". Actives International continues to lead the field in fermentation derived active ingredients.



#### SCC Twin Cities Chapter Chair Chat



Hello Twin Cities Chapter members! I hope everyone had a great holiday season and I wish everyone a happy and prosperous new year. I am looking forward to providing my service to the chapter and working with you all to keep our chapter in the great standing it already is.

With great regret I could not attend the always audacious holiday party! However, I am certain that the Aces high folks took care of your gambling fixes and the staff at the Radisson did a great job in hosting us for the event. There is a link to the pictures from the festivities on the TCCSCC website.

I wanted to also take this opportunity to show gratitude to the 2017 board (Samantha, Justin, Maggie) for an outstanding year with the Holistic Symposium

having the largest attendance and supplier showcase numbers. In particular, I would like to especially mention Samantha Guertin as she is such a new member of the society and the industry. Samantha volunteered to lead the chapter and took us to novel grounds with some of the speakers she procured and new meeting formats. These are the young members that we need and I believe, will continue the chapter legacy and mold it for the future. I encourage all of our members to volunteer for a board position, it is gratifying both professionally and personally.

I would also like to welcome the 2018 Twin cities SCC board Melissa Christenson (Chair Elect), Nadabia Helland (Secretary) and Justin Steinke (Treasurer). Also I want to honor our website coordinator Chad Pavlis and welcome our Newsletter editor Kristen Haakenson. I am excited to work with the team in making this as good a year for the chapter as last year.

My goal is to have a great line up for thought provoking, novel educational meetings this year and I hope to have great turnouts to support the local chapter, especially at the usual "brewing science" event!

As always we are open to any suggestions and opportunities to improve our chapter so please feel free to contact the board or myself.

Thank you,

Divyesh Patel 2018 TCCSCC Chair









# MEET THE 2018 TCC-SCC OFFICERS

# DIVYESH PATEL — CHAIR

2017 was a great year for the Twin Cities Chapter of the SCC due to the work and the dedication of the team on the board.

My beginnings in the Sciences started in the U.K. where I grew up and received my degree in Biomedical Science after which I moved to the U.S. and continued graduate work in the same discipline. I have been with Aveda Corporation for 13 years with various teams and I also have been lucky enough to gain experience in the personal care industry at various companies on the east coast. I have been an Active SCC member for 17 years which started off in the New York Chapter.

When I am picked last for teams and I am not Uber-ing my kids around, in my "spare time" I like to play volley ball, golf and soccer but my preferred game is Tennis. I am looking forward to a great new year serving as the Chair for 2018 with some new faces on the board.



# Melissa Christenson — Chair-Elect

As Founder & Principal Consultant of Bridge, Inc., a Product Design & Development company, I leverage my broad experience in R&D, Brand Strategy and General Management to "bridge the gap" between Sales/Marketing and R&D/Operations. I earned a BA in Chemistry from St. Olaf College and an MBA in Marketing from the University of Minnesota Carlson School of Management, and have been fortunate to learn from and work with innovators and visionary leaders in the health/beauty industry over the past 20+ years on brands including Aveda, Intelligent Nutrients, J.R. Watkins, St. Ives and Aussie.

My role as a Consultant is to help organizations design, develop and deliver new products that meet their strategic priorities, and manage risk with accelerated timelines. My unique background in both R&D and Marketing allows me to facilitate communication and cultivate collaboration between two groups that generally don't speak the same language.

Aside from Consulting, I enjoy time with my husband and two high-school aged boys, where we work and play on our horse ranch in Buffalo, MN.

After several years hiatus, I am thrilled to be involved again with our local Twin Cities SCC chapter, and I look forward to serving as Chair-Elect in 2018!





# MEET THE 2018 TCC-SCC OFFICERS

# Nadabia Helland — Secretary

I am very honored to be part of the TCCSCC board and I will do my best for the Twin Cities Chapter of the SCC 2018. I graduated in Pharmaceutical Sciences in 2002. I believe that we should never stop learning and that passion drove me to the next round in my life, my Master's Degree in Natural and Synthetic Bioactive Products at Federal University of Paraiba UFPB (Brazil) which I finished in 2005. During that time I was in the lab learning about Quality Control, Quality Assurance and Biotechnology. One of the projects that I worked on during those academic years gave me the opportunity to join the PhD Program 2006-2010 and learn more about Fixed and Essential Oils – specifically, the power of Natural oils against Pathogenic fungus (yeast and dermatophytes). During this time I also had the opportunity to join the Board of Professors at the UFPB after the National Examination in Brazil. And that's how I became a Professor of Histology of that Institution. I spent nearly a decade working in a private College and at the UFPB until 2013. In 2009 I met and married an Engineer from Wisconsin! and in 2013 I moved to the USA. A new fresh start! It was not easy but I believe that some moves are wise and challenges make you stronger, so I've embraced it! I started working for Beraca Int'l North America in 2014 where my professional Life in the Cosmetic and Personal Care Industry started. I am currently working as Midwest Sales Account Manager at TRI-K. I have been an SCC member for 3 years in the Twin Cities Chapter since then.



# JUSTIN STEINKE — TREASURER

After graduating from Saint Mary's University of Minnesota with a B.A. in Chemistry, I started work as an analytical chemist at Pace Analytical Life Sciences in both the R&D and Finished Products group, where I grew my experience on a variety of analytical instruments. I then moved into an R&D formulation position at Apex International Manufacturing, Inc., working as technical expert for clients and account managers in both formulating and onboarding formulations for multiple clients on a variety of production scales. A large portion of my time at Apex was also spent working closely with the compounding staff on all levels as process engineer to develop and modify manufacturing procedures for an array of formulations, from o/w and w/o emulsions to surfactants to anhydrous systems. I currently manage the R&D department at The JR Watkins Company in Winona and am working with formulations in many areas, including home care, personal care, OTC's, HI&I and Food. Watkins manufactures both in house at their head-quarters in Winona and contracts out a variety of formulations to multiple CM's. I work closely with CM's as well as in house staff to manage manufacturing procedures, bulk and finished goods specifications, stability of products, OOS investigation, and the on -board process at our CM's.

I have been a member of the SCC for over 5 years, during which I have served on the TCCSCC Board as Secretary, Chair-Elect, and Chair. I look forward to serving as Treasurer in 2018.



## SCC TWIN CITIES CHAPTER NEWS

# **2017 SCC Chapter Speaker Award Twin Cities Chapter**

The 2017 SCC Chapter Speaker Award is given for the best scientific paper presented before each Chapter during a given calendar year. This year Mark Miller of FitzChem was selected to receive the award for his talk entitled, "Symmetry! Consumer Trends in Home, Personal Care &



Nutrition and What They Mean or Your Next Formulation."

#### Abstract:

Free from...Clean Label...Organic...Ingredients of Concern. These consumer trends underpin the formulating challenges you encounter when creating the next, innovative home and personal care products, right? Actually, these highlighted trends are from the nutrition & food segments, believe it or not!

#### **Meeting Attendance Incentive**

Members and friends of the TCC-SCC, we would love to see you at each and every chapter meeting. There is always new and interesting information to be heard and super networking opportunities. To encourage attendance at our chapter meetings, we offer two opportunities to win some GREAT prizes at the 2018 holiday party in December!

- Attend four or more Twin Cities SCC chapter meetings or events you will be entered into a drawing for a prize.
- Invite a person who has not previously attended a Twin Cities SCC chapter meeting or event and you will be entered into a separate drawing for an awesome prize.

# **2017 SCC Chapter Merit Award Twin Cities Chapter**

The 2017 SCC Chapter Merit Award was begun in 1995 to recognize one member of a Chapter for distinguished contributions, achievements and service to the Chapter over a period of time. This year Chad Pavlis was selected in recognition for serving the Twin



Cities Chapter as newsletter editor for more than 20 years. Thank you Chad for your outstanding service to our chapter.

#### **Student Membership:**

NEW student memberships are free for 2018. Application forms should be sent be sent directly to Colleen Daddino (cdaddino@scconline.org) in order to have the dues waived.



Join or follow the Society of Cosmetic Chemists—Twin Cities Chapter on LinkedIn. Find out what's happening in our chapter and in the industry.





# SCC NATIONAL OFFICE NEWS



#### **EXECUTIVE COMMITTEE**

Last year during the 71st Annual Scientific Meeting, held at The Westin New York at Times Square, the 2018 Board of Directors of the Society of Cosmetic Chemists was officially installed.

Your board for the current year are:

Perry Romanowski (Element 44 Inc.), President Kelly Dobos (Sun Chemical), Vice President Mindy Goldstein (Mindy S. Goldstein, Ph.D. Consulting) VP-Elect Michelle Hines (Mary Kay, Inc.), National Secretary Liz Streland (Croda), National Treasurer



























#### **BOARD OF DIRECTORS**

Rounding out the Board and serving as Area Directors are:

Newly Elected **Kimberly Burch** (Elementis Specialties) and Senior Director **Craig Ford** (AMCOL HPC), serving Area I.

Senior Director **Christopher Heisig** (Monsanto Company) and **Yulia Park** (Amway), serving Area II.

Newly Elected **Jacklin V. Hoffelt** (IMCD) and Director **Karen Chun** (Symrise, Inc.), serving Area III.

Senior Director **Stanley Milstein** (Milstein & Milstein Associates) and Director **Dennis Abbeduto** (Colonial Chemical), serving Area IV.

## SCC National Office News

# 2018 MEMBERSHIP RETENTION CONTEST

The National SCC hosted a Membership Retention Contest. The chapters who attained the highest percent membership retention were given a monetary award. The Twin Cities Chapter won 3rd place and was awarded \$500. The Twin Cities Chapter currently has 101 members.

#### **Contest results:**

Long Island 93% 1<sup>st</sup> Place Michigan 92% 2<sup>nd</sup> Place Twin Cities 88% 3<sup>rd</sup> Place



#### **GO GREEN INITIATIVE**

We encourage our members to "Go Green". Mailing a physical copy of The Journal of Cosmetic Science has very high printing , mailing and natural resources cost . If you prefer to receive the Journal in digital format please go to <a href="www.scconline.org">www.scconline.org</a> and sign into your member account., select "My Member Profile", and select "preferences". At the bottom of the page find "Go Green!", check the box and save.

#### MEMBER DEMOGRAPHIC

To serve you better, please log into your member account and provide your member demographics. This way we can determine what markets our members represent and what their interests are. To do this please go to <a href="www.scconline.org">www.scconline.org</a> and sign into your member account., select "My Member Profile", and select "About Me". Go to Business/Specialty Demographics and provide your information.







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## SCC National Office News

# SCC NATIONAL CEP COURSES OPEN FOR REGISTRATION:

### AEROSOL TECHNOLOGY 101 ONEXTGEN

April 10, 2018, 9:00 – 5:00, Rosemount, IL

Instructed by Colleen Rocafort; BASF, this is a 'Back to Basics' course in aerosol technology. Attendees will learn how an aerosol system works, basic componentry utilized, State and Federal regulations that directly affect aerosol products; and general formulation considerations to be addressed when developing, formulating, and testing prototype aerosols for use in the Personal Care market. Professionals who wish to develop an understanding of aerosol technology as well as those who are actively involved in the development, filling and testing of Personal Care aerosol products would be interested in this course.

http://www.scconline.org/nationalcepcourses/

#### INTERNATIONAL REGULATORY UPDATE

April 10, 2018, 9:00 – 5:00, Rosemount, IL

Instructed by David Steinberg & Mo Lovelace; Steinberg & Associates, this course will focus on the changes of the regulations of cosmetics in Canada, the European Union, Japan, and China. Amongst the topics under Europe will be an overview of the recent changes to the EU Regulations and opinions which may lead to more changes, and a review of REACH and its impact on raw material suppliers and cosmetic manufacturers as of May 30, 2018. The topics covered about Japan include the definitions of cosmetics and quasi-drugs and how they are regulated, and updates of these regulations. China regulations will be about proposed changes, additional approved ingredients, and animal testing. Canada will cover changes to their Hot List, and proposed changes to how sunscreens pilot program is doing and Sel-Care Framework. EVERYONE should attend this course as these changes reflect critical issues for ingredient suppliers, formulators, and marketers of cosmetics.

http://www.scconline.org/nationalcepcourses/

#### **CALL FOR PAPERS**

The Committee of Scientific Affairs at Society of Cosmetic Chemists is excited to open the call for papers for our annual scientific meeting and technology showcase scheduled for Dec 11-12, 2018 at Sheraton, Times Square - NYC.

The scientific program will include two distinct tracks – a Basic/NextGen Track for young professionals and those looking for introductory-level information about the cosmetics industry, and an Advanced Track for those interested in learning about cutting-edge science, technologies and product innovations.

Please navigate to the site referenced below for "Topics of Interest", abstract submission protocols and deadlines. We are accepting submission for Podium presentations as well as Poster/Tabletops.

http://www.scconline.org/call-for-papers/





# SCC National Office News



#### Member Highlight

The Society thinks it's time to acknowledge more members more often, so we've decided to place a spotlight on members whose dedication to the SCC has not gone unnoticed.

#### SAMANTHA ANDERSON

Senior Formulation Scientist

Aveda Corporation/ Estee Lauder Companies

Member Since 2005 Chapter: Twin Cities

#### What advice would you give your younger self who is just starting out in the industry?

My advice to my younger self, just out of College, would be to step outside of your comfort zone and try out even the not so fun jobs. It just might lead you to something exciting!

#### What made you pursue a career in the cosmetics/personal care industry?

Upon entering College, I didn't really know what I wanted to be when I grew up. As a kid I always wanted to become a Veterinarian. However, the loss of my family dog when I was young made me realize that my dream job involved aspects that were much harder for me to deal with than I expected. So, not knowing what I wanted my career to be, I focused on Biology and Chemistry courses. My first few jobs out of college utilized my degree but they were not what I considered inspiring or exciting. I continued job searching until I came across an open position in Cosmetic Chemistry/Formulation Development within R&D. I was immediately excited and it was really the first time that I was exposed to this profession. Thirteen years later, I'm still excited to be working within the industry and learning new things every day!

#### What is the favorite part of your job?

You know the saying "Every day you learn something new?" Well, that's really what I like about my job. There are so many things to learn about the industry and technology is always changing. I love working from concept to product prototypes to testing and finally seeing your product on the shelf! My days are never boring!

#### What has been your most recent professional accomplishment?

My most recent accomplishment has been the work that I've done in the past two years developing an entire line for Professional Skin Care. I found how complicated professional facial protocols can be and how you have to develop each product so that they will work together in a facial. Products that are layered really have to work well together and not just on their own.

#### How has membership in the SCC been of value to you?

I have met so many new people and have learned many new things as a member of the SCC. When you are immersed in a work project for a long time, sometimes it is hard to look outside of that. SCC meetings have given me an outlet to step away from my projects at work for a while and look at other aspects of the industry. I've found that that little break can really help open up my creativity and get past challenges that I may be facing. The meetings are a perfect combination of networking and continuous learning.

#### What is a fun fact about yourself, outside of the SCC and your professional life?

I love photography and capturing the moment. Being a mom of a two year old has now given me endless moments to snap!





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# **2017 TCC-SCC HOLIDAY PARTY**



# Mark your Calendar! Twin Cities Chapter Events

**APRIL 17, 2018** 

Twin Cities Chapter monthly meeting

**JUNE 25, 2018** 

Twin Cities Chapter Annual Golf Outing Bunker Hills Golf Course, 11:30am shotgun start

**SEPTEMBER 18, 2018** 

Twin Cities Chapter Boat Cruise/Poster Session

**OCTOBER 16, 2018** 

Twin Cities Chapter monthly meeting

**NOVEMBER 20, 2018** 

Twin Cities Chapter monthly meeting Officer Installation

**DECEMBER 18, 2018** 

Twin Cities Chapter Holiday Party

#### OTHER INDUSTRY EVENTS



www.midwestscc.org
Continuing Education courses April 10, 2018



www.personalcarecouncil.org/legal/2018-legal-regulatoryconference







Intercontinental Personal Care Excellence Conference
June 3-5, 2018
Sestri Levante (Genova), Italy









# Naturally Kiawah Symposium Kiawah Island, SC October 3-5, 2018 Special Events October 3 - CEP, 5-6pm Cocktail Reception & Supplier Showcase October 4 – Full Day Technical Seminar, & 5-6pm Cocktail Reception & Supplier Showcase October 5 – Golf at Cougar Point & Spa Treatment at the Sanctuary FOR ADDITIONAL INFORMATION Michelle Linscott - michelle@xytrus.com Shari Clemente - sclemente@Hatchbeauty.com

#### **Call for Papers**

#### 2018 Naturally Kiawah Symposium October 4, 2018

Authors are invited to submit titles and abstracts of no more than 150 words for original papers to be presented in podium format. All topics related to Natural and Green Science will be considered for presentation. Topics of particular interest for submission of the abstracts are:

- How are Advances in Science Affecting the Development of New Natural/Green Raw Materials and Products?
- Eco-Friendly Manufacturing (carbon footprints, alternate forms of energy, waste management techniques)
- Effect of Natural/Green Products on Skin Biology
- Fair Trade Opportunities in Personal Care
- Preservation and Stabilization of Natural Products
- Marketing and Consumer Trends
- Regulatory Updates
- Sustainable Sourcing and Manufacturing
- Novel Delivery Systems for Natural Products
- Green/Natural Packaging
- New Movements on Beauty from Within Nutraceuticals or Wipe Segment

Abstracts should be single spaced and typed on a separate sheet (150-200 words). Complete generic names as well as the INCI nomenclature are requested for all ingredients (INCI names only allowed in formula presentations if selected). Abstract submissions should be informative, containing:

- Presenters Name
- Title (Prof., Dr., Mr., Mrs., Ms.)
- Author(s)
- Company Name, Telephone Number
- Fax Number
- Email Address
- Abstract Title
- A sentence statement of the study's objective
- Brief statement of methods, in pertinent
- Summary of results obtained
- Statement of conclusions

Please submit your abstract via Email to scccarolinas@gmail.com

All abstracts will be reviewed and selected CCSCC Education Committee no later than May 1, 2018. After acceptance of abstracts by the committee, all presenters will be required to submit an electronic copy of their full presentation 4 weeks prior to the event date. Final presentations will be due no later than September 15, 2018. No changes in presentations will be acceptable one week prior to or on the date of the presentation.

**DEADLINE April 1, 2018** 

## **EMPLOYMENT OPPORTUNITIES**



#### R&D Formulation/Analytical Chemist - Freelance, Consultant, or Part-Time

ALCHEMIST EXPRESS., is the first online freelance marketplace tailor-made for the cosmetics and personal care industry. If you are Formulations Chemist, R&D/ Analytical Chemist, Chemical Engineer or someone with a similar depth of knowledge in creating cosmetic and/or personal care products for the boarder market; we would love for you to join our platform and interact with our 4000+ daily active user base. On the Alchemist Express platform you have the opportunity to choose what type of work you will accept from our user base (consulting vs. formulation), what hours of the day customers may contact you, and even your per hour rate. www.alchemistexpress.com



#### Senior Scientist for Skin-Care:

Melaleuca, a \$1.75B CPG company, is seeking a highly-motivated, creative Senior Scientist to lead innovation in Skin-Care and provide technical support for the line. The position requires strong formulation skills in skin-care technology, including emulsions, gels, and cleansers as well as familiarity with the polymers, surfactants, emollients, active ingredients, and other raw materials used in the cosmetic industry. An understanding of skin physiology and product assessment techniques is desirable. In addition, responsibilities extend to managing external relationships with vendor partners as well as identifying and implementing new technologies and product improvement opportunities from outside sources. For a full job description or to apply go to: https://careers-melaleuca.icims.com/jobs/1225/senior-scientist---skin-care/job

# **CURIO**

#### Project Manager—Design & Innovation:

This role will be responsible for managing a team, which is accountable for developing, maintaining and managing project timelines and milestones for all projects across our CURiO brand portfolio. This position will be the bridge between department leaders, making sure all departments rally to stay on track, on budget and on company strategy to meet all deliverables as committed. For a full job description: http://www.curiobrands.com/jobs/







