

# SCC

## SOCIETY OF COSMETIC CHEMISTS

# THE SOUTHEAST CHAPTER



Volume XXXI, Number 4

October 2013

### 2013 Southeast Chapter Officers

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### Speaker Dinner Meeting

Wednesday, October 16, 2013

**“Polymeric Rheology Modifiers”**  
**Speaker: Jennie Kravchenko, Clariant**

**Location: Spindini Restaurant**

**383 South Main St.**

**Memphis, TN**

**6:00 pm to 6:30 pm - Cocktail / Registration**

**6:30 pm to 8:00 pm - Dinner**

**8:00 pm – Presentation**

**\$45 – SCC chapter member**

**\$50 – non-SCC member**

**RSVP by noon, Oct. 14th to Billy Maness**

**(901) 320-2157 or e-mail: [billy.maness@merck.com](mailto:billy.maness@merck.com)**




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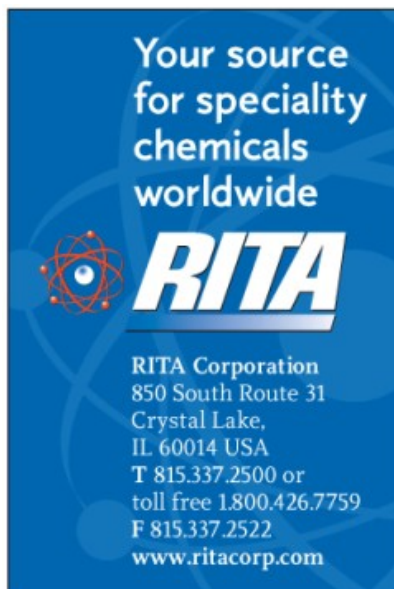
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## Message from the Southeast Chair

Welcome to the September newsletter!

Our October meeting is highlighted on page 1. Jennie Kravchenko from Clariant Corp. will be presenting. Her abstract is shown on page 4. Jennie always does a great job with cutting edge science. Sponsorships are available, so please contact me for details.

The end of the year is almost upon us and along with fall weather comes chapter elections and membership renewal. Ballots will be mailed in October. Please let us hear your voice by exercising your right to vote.

Everyone should have received a dues notice with a membership renewal form. Please send your renewal as soon as possible so you can be counted in the membership retention contest being held by the national office.

In the unfortunate event that you do not intend to renew, please remember to resign your membership. Members who are dropped for non-payment of dues must pay for the dropped year and the reinstatement year if they want to rejoin at a later date.

Looking forward to seeing you at the October meeting!

Kevin Fowler  
2013 SCC Southeast Chapter Chair



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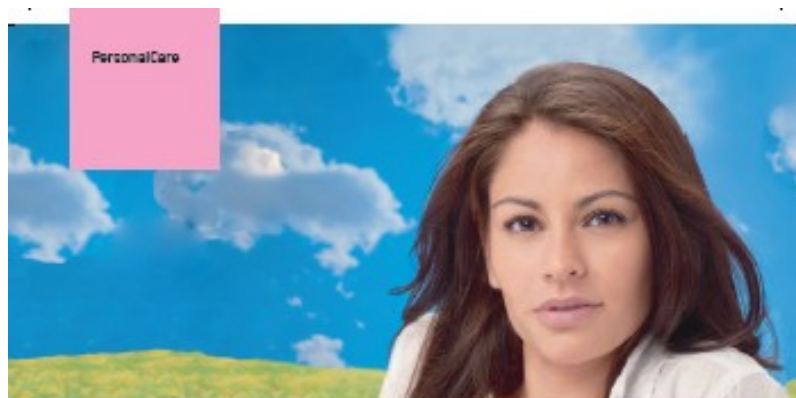
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## Impact of Comonomer Variations on Performance Attributes of AMPS-based Polymeric Rheology Modifiers

*Jennie Kravchenko*

Polymeric rheology modifiers are an essential class of ingredients used in personal care products to improve the stability of formulations and to provide enhanced product aesthetics. A variety of rheology modifiers are available in the industry. One class which is of particular interest is acrylamidopropane sulphonic acid (AMPS) based polymeric rheology modifiers. AMPS-based polymers are highly cross-linked and hold a permanent negative charge on the sulfonic-acid moieties of the AMPS monomer. These properties dictate the thickening mechanism of these rheology modifiers and account for the stability of formulation viscosity over a broad pH range.

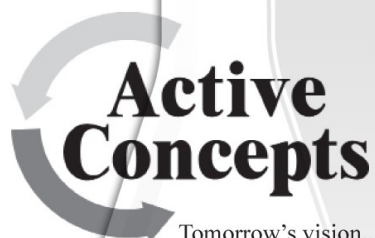
The AMPS monomer is present in all AMPS-based polymers, with a variety of comonomer chemistries available. A range of sensorial benefits and formulation solutions can be realized by altering the chemistry of the comonomer in AMPS-based rheology modifiers. For example, hydrophobically-modified AMPS polymers with the beheneth-25 comonomer are able to stabilize larger oil concentrations than traditional AMPS polymers with the vinylpyrrolidone comonomer. The hydrophobically-modified AMPS polymer also provides a caring skin feel upon application, due to the polymer's increased salt tolerance, whereas the traditional AMPS polymer with the vinylpyrrolidone comonomer provides a neutral skin feel. A range of sensoric profiles can be achieved with the AMPS-based polymers, ranging from light and fresh to substantive and conditioning, depending on the chemistry of the comonomers.

Variations in comonomer chemistry have also been found to affect interactions between the polymer and solvent, thus influencing the degree of swelling of the network structure and the viscosity profile of the polymers. Rheological parameters such as yield stress and viscoelasticity have also been studied in emulsions with AMPS-based polymers. Although the viscoelastic modulus is still experimental in predicting emulsion stability, the viscoelasticity of formulations with various polymers were evaluated at elevated temperatures. Those which were found to have a high elastic component at the highest temperatures are predicted to be more stable over time.

New formulation challenges arise daily as consumers begin to have greater expectations of their personal care products. By designing the proper comonomer structures for AMPS polymers, many of these challenges can be resolved.



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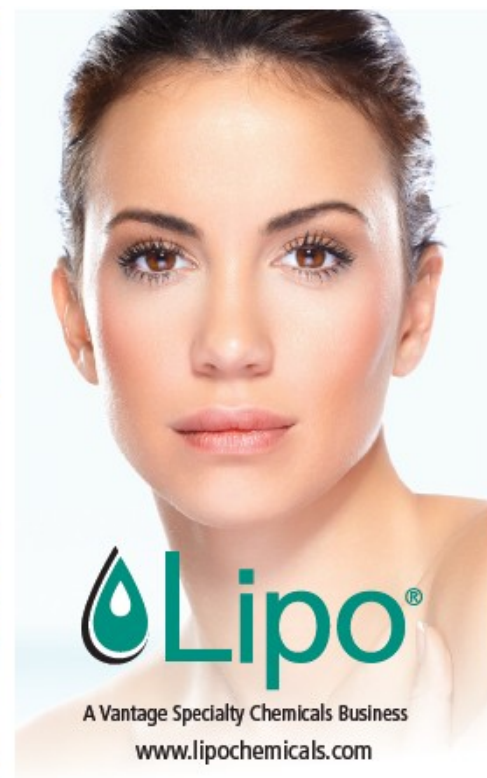
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SOCIETY OF COSMETIC CHEMISTS  
**The Carolina Chapter**



**Announces its Fourth Meeting of 2013!**  
**October 3<sup>rd</sup>, 2013**  
**Continuing Education Program (CEP Course)**

**Place:**

North Carolina Research Campus – David H. Murdoch Research Institute  
DHMRI Training Room ([Map on next page](#))  
150 Research Campus Drive  
Kannapolis, NC 28081  
P: 704-273-1206  
[www.ncresearchcampus.net](http://www.ncresearchcampus.net)

**Cost:**

\$50.00 SCC members  
\$100.00 Non-members



This meeting is sponsored by Innospec Performance Chemicals

**Program:**

8:30 AM – 9:00 AM – Registration/Sign-in  
9:00 AM – 12:00 PM – Tour, CEP Course  
12:00 PM – 1:00 PM – Lunch (short walk to local restaurant)  
1:00 PM – 4:00 PM – CEP Course



**The Course: Practical Cosmetic Product Development**  
**Instructed by: Perry Romanowski**

**Objective:** To explain a process by which cosmetic chemists can create formulations that can match or exceed the performance of competitive benchmarks.

**Who should attend:** This class will appeal to a wide variety of people in the cosmetic industry. Beginning formulation chemists and QA/QC chemists will get the fundamentals of formulating various product types including skin, hair, and color cosmetics.

Seasoned chemists who have focused on one area of formulation can learn some practical tips that will decrease their product development time. This course will be divided into three sections including: (1) Preliminary Research; (2) Prototype Development; (3) and Product Testing. We look forward to seeing you there!

Registration and payment can be done at the meeting or on our website [www.carolinascce.org](http://www.carolinascce.org)

RSVP Michael Licciardello – [mlicciardello@gracemg.com](mailto:mlicciardello@gracemg.com)

*The Carolina Chapter would like to give a special Thank You to  
Innospec Performance Chemicals for sponsoring this event!!!!*





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# Mark your calendars!

## Florida Chapter of the SCC announces: 2013 Sunscreen Symposium Beyond Broad Spectrum: The Next Horizon of Suncare September 19 -21, 2013

Day & Date	Educational Course & Golf outing	Technical Presentations	Poster Session	Exhibits	Cocktail reception or Gala
Wednesday; Sept 18, 2013				Afternoon setup	+ Early Registration
Thursday; Sept. 19, 2013	✓			✓	✓
Friday; Sept.20, 2013		✓	✓	✓	
Saturday; Sept. 21, 2013		✓*	✓	✓	✓

\* Saturdays technical presentations will include a round table discussion  
with top scientists in the sun care industry participating

**Location: Walt Disney World Swan Resort**  
**Disney World, Orlando, FL; Room rates: \$179/night**

SCC members \$450 / non members \$550

Gala reception

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